JSON-RPC API

There are several OP Mainnet components with an RPC API, which are reviewed in this guide

op-node

op-node implements most rollup-specific functionality as Consensus-Layer, similar to a L1 beacon-node. The following RPC methods are broken down by namespace.

The following examples show you how to make requests without (opens in a new tab) and cast (opens in a new tab).

Protip: piping these commands in tqq (opens in a new tab) will give you nicely formatted JSON responses.

cast rpc optimism_syncStatus --rpc-url http://localhost:9545 | jq

optimism

Optimism specific rollup methods.

optimism_outputAtBlock

Get the output root at a specific block. This method is documented in the specifications (opens in a new tab).

curl cast curl

v

POST

-H

"Content-Type: application/json"

--data \ '{"jsonrpc":"2.0","method":"optimism_outputAtBlock","params":[""],"id":1}' \ http://localhost:9545 Sample success output:

optimism_syncStatus

Get the synchronization status.

curl cast curl

-X

POST

-H

"Content-Type: application/json"

 $--data \ \ '["]sonrpc":"2.0", "method":"optimism_syncStatus", "params":[], "id":1]' \ \ http://localhost:9545 \ Sample \ success \ output: the params of t$

{ "current_l1" : { "hash" :

"0xff3b3253058411b727ac662f4c9ae1698918179e02ecebd304beb1a1ae8fc4fd", "number":

4427350 , "parentHash" :

"0xb26586390c3f04678706dde13abfb5c6e6bb545e59c22774e651db224b16cd48", "timestamp":

1696478784 } , "current_l1_finalized" : { "hash" :

"0x7157f91b8ae21ef869c604e5b268e392de5aa69a9f44466b9b0f838d56426541", "number":

4706784, "parentHash":

"0x1ac2612a500b9facd650950b8755d97cf2470818da2d88552dea7cd563e86a17", "timestamp":

1700160084 } , "head_l1" : { "hash" :

"0x6110a8e6ed4c4aaab20477a3eac81bf99e505bf6370cd4d2e3c6d34aa5f4059a", "number":

4706863, "parentHash":

 $"0xee 8a9cba5d93481f11145c24890fd8f536384f3c3c043f40006650538fbdcb56"\ ,\ "timestamp": 10006650538fbdcb56"\ ,\ "timestamp": 10006650538fbdcb56050538fbdcb5605$

1700161272 } , "safe_I1" : { "hash" :

4706811, "parentHash":

 $"0x6593cccab3e772776418ff691f6e4e75597af18505373522480fdd97219c06ef"\ ,\ "timestamp": 10x6593cccab3e772776418ff691f6e4e75597af18505373522480fdd97219c06ef"\ ,\ "timestamp": 10x659566fd9766ff9766ff9$

1700160480 } , "finalized_I1" : { "hash" :

"0x7157f91b8ae21ef869c604e5b268e392de5aa69a9f44466b9b0f838d56426541", "number":

4706784, "parentHash":

 $"0x1ac2612a500b9facd650950b8755d97cf2470818da2d88552dea7cd563e86a17"\ ,\ "timestamp": 10x1ac2612a500b9facd650950b8755d97cf2470818da2d88552dea7cd563e86a17"\ ,\ "timestamp": 10x1ac2612a500b9facd650950b9facd650000$

1700160084 } , "unsafe_l2" : { "hash" :

 $"0x9a3b2edab72150de252d45cabe2f1ac57d48ddd52bb891831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab72150de252d45cabe2f1ac57d48ddd52bb891831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab72d48ddd52bb891831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab72d48ddd52bb891831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab72d48ddb52bb891831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab72d48ddb52b891831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab72d48ddb52b891831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab72d48db649408fe4"\ ,\ "number": 10x9a3b2edab72d48db649408fe4"\ ,\ "number": 10x9a3b2edab72d48db649831ffed00e89408fe4"\ ,\ "number": 10x9a3b2edab7$

2338094 , "parentHash" :

1696478728 , "I1origin" : { "hash" :

"0x38731e0a6eeb40091f0c4a00650e911c57d054aaeb5b158f55cd5705fa6a3ebf", "number":

4427339 } , "sequenceNumber" :

3 } , "safe_I2" : { "hash" :

"0x9a3b2edab72150de252d45cabe2f1ac57d48ddd52bb891831ffed00e89408fe4", "number":

2338094 , "parentHash" :

```
"0x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f53", "timestamp":
 1696478728 , "I1origin" : { "hash" :
 "0x38731e0a6eeb40091f0c4a00650e911c57d054aaeb5b158f55cd5705fa6a3ebf", "number":
 4427339 } , "sequenceNumber" :
 3 } , "finalized_I2" : { "hash" :
 "0x285b03afb46faad747be1ca7ab6ef50ef0ff1fe04e4eeabafc54f129d180fad2". "number":
2337942 , "parentHash" :
 "0x7e7f36cba1fd1ccdcdaa81577a1732776a01c0108ab5f98986cf997724eb48ac", "timestamp":
 1696478424, "I1origin": { "hash":
 "0x983309dadf7e0ab8447f3050f2a85b179e9acde1cd884f883fb331908c356412", "number":
 4427314 } , "sequenceNumber" :
 7 } , "pending_safe_l2" : { "hash" :
 "0x9a3b2edab72150de252d45cabe2f1ac57d48ddd52bb891831ffed00e89408fe4", "number":
 2338094 , "parentHash" :
 "0x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f53", "timestamp":
 1696478728 , "I1origin" : { "hash" :
 "0x38731e0a6eeb40091f0c4a00650e911c57d054aaeb5b158f55cd5705fa6a3ebf", "number":
 4427339 } , "sequenceNumber" :
3 } , "queued unsafe I2" : { "hash" :
 "0x3af253f5b993f58fffdd5e594b3f53f5b7b254cdc18f4bdb13ea7331149942db", "number":
 4054795, "parentHash":
 "0x284b7dc92bac97be8ec3b2cf548e75208eb288704de381f2557938ecdf86539d", "timestamp":
 1699912130 , "I1origin" : { "hash" :
 "0x1490a63c372090a0331e05e63ec6a7a6e84835f91776306531f28b4217394d76"\ ,\ "number": 10x1490a63c372090a0331e05e63ec6a7a6e84835f91776306531f28b4217394d76"\ ,\ "number": 10x1490a63ec6a7a6e84835f9176636659\ ,\ "number": 10x1490a66a66669\ ,\ "number": 10x1490a666669\ ,\ "number": 10x1490a66669\ ,\ "number": 10x1490a66669\ ,\ "number": 10x1490a66669\ ,\ "number": 10x1490a6669\ ,\ "number": 10x1490a6669\ ,\ "number": 10x1490a6669\ ,\ "number": 10x1490a669\ ,\ "number": 10x1490a69\ ,\ "number": 10x1490a669\ ,\ "number": 10x1490a669\ ,\ "numb
 4688196 } , "sequenceNumber" :
2 } , "engine_sync_target" : { "hash" :
 2338094 . "parentHash" :
 "0x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f53"\ ,\ "timestamp": 10x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f53"\ ,\ 10x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f53"\ ,\ 10x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f53"\ ,\ 10x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f530 \ ,\ 10x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f940753f540 \ ,\ 10x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f9407540 \ ,\ 10x935b94ec0bac0e63c67a870b1a97d79e3fa84dda86d31996516cb2f9407660 \ ,\ 10x935b94ec0bac0e6466660 \ ,\ 10x935b94ec0bac0e646660 \ ,\ 10x935b94ec0bac0e646660 \ ,\ 10x935b94ec0bac0e64660 \ ,\ 10x935b94ec0bac0e64660 \ ,\ 10x935b94ec0bac0e64660 \ 
 1696478728 , "I1origin" : { "hash" :
 "0x38731e0a6eeb40091f0c4a00650e911c57d054aaeb5b158f55cd5705fa6a3ebf", "number":
 4427339 } , "sequenceNumber" :
3 } }
optimism_rollupConfig
Get the rollup configuration parameters.
curl cast curl
 -X
POST
 -H
 "Content-Type: application/json"
 --data \ '{"jsonrpc":"2.0","method":"optimism_rollupConfig","params":[],"id":1}' \ http://localhost:9545 Sample success output:
{ "genesis" : { "I1" : { "hash" :
 4071408 } , "I2" : { "hash" :
 "0x102de6ffb001480cc9b8b548fd05c34cd4f46ae4aa91759393db90ea0409887d", "number":
0 } , "I2_time" :
 1691802540 , "system_config" : { "batcherAddr" :
 "0x8f23bb38f531600e5d8fddaaec41f13fab46e98c", "overhead":
 30000000 } } , "block_time" :
2 , "max_sequencer_drift" :
 600, "seq_window_size":
3600 . "channel timeout" :
 300 , "I1_chain_id" :
 11155111 , "I2_chain_id" :
 11155420 , "regolith_time" :
0 , "canyon_time" :
 1699981200, "batch_inbox_address":
 "0xff0000000000000000000000000011155420", "deposit_contract_address":
```

```
"0x16fc5058f25648194471939df75cf27a2fdc48bc", "l1_system_config_address":
 "0x034edd2a225f7f429a63e0f1d2084b9e0a93b538"\ ,\ "protocol\_versions\_address":
 "0x79add5713b383daa0a138d3c4780c7a1804a8090" }
 optimism_version
 Get the software version.
At the moment, building from source will not give you the correct version, but our docker images will.
curl cast curl
 -X
 POST
 -H
 "Content-Type: application/json"
 { "jsonrpc" : "2.0" , "id" : 1 , "result" : "v0.0.0-" }  
 opp2p
 Theopp2p namespace handles peer interactions.
opp2p_self
 Returns your node's information.
curl cast curl
 -X
POST
 -H
 "Content-Type: application/json"
 { "jsonrpc" :
 "2.0" , "id" :
 1 , "result" : { "peerID" :
 "16Uiu2HAm2y6DXp6THWHCyquczNUh8gVAm4spo6hjP3Ns1dGRiAdE", "nodeID":
 "75a52a90fe5f972171fefce2399ca5a73191c654e7c7ddfdd71edf4fca6697f0", "userAgent":
"", "protocolVersion":
 "" . "ENR" :
 "enr:-J-4QFOtl_hDBa_kilrQcg4iTJt9VMAuDLCbgAAKMa--
WfxoPml1xDYxypUG7lsWga83FOlvr78LG30H8CfzRzUmsDyGAYvKqlZ2gmlkgnY0gmlwhGxAaceHb3BzdGFja4Xc76gFAllzZWNwMjU2azGhAnAON-
FvpiWY2iG_LXJDYosknGyikaajPDd1cQARsVnBq3RjclikBoN1ZHCC0Vs", "addresses" : [ "/ip4/127.0.0.1/tcp/9222/p2p/16Uiu2HAm2y6DXp6THWHCyquczNUh8gVAm4spo6hjP3Ns1dGRiAdE" , "/ip4/192.168.1.71/tcp/9222/p2p/16Uiu2HAm2y6DXp6THWHCyquczNUh8gVAm4spo6hjP3Ns1dGRiAdE" , "/ip4/108.64.105.199/tcp/9222/p2p/16Uiu2HAm2y6DXp6THWHCyquczNUh8gVAm4spo6hjP3Ns1dGRiAdE" ] , "protocols" :
null, "connectedness":
0 , "direction" :
0 . "protected" :
 false , "chainID" :
0 , "latency" :
0 , "gossipBlocks" :
true , "scores" : { "gossip" : { "total" :
0 , "blocks" : { "timeInMesh" :
0 , "firstMessageDeliveries" :
0 , "meshMessageDeliveries" :
0 , "invalidMessageDeliveries" :
0 } . "IPColocationFactor" :
0, "behavioralPenalty":
0 } , "reqResp" : { "validResponses" :
0 , "errorResponses" :
0 , "rejectedPayloads" :
0 } } }
opp2p_peers
Returns a list of your node's peers.
curl cast curl
 -X
POST
 -H
 "Content-Type: application/json"
 --data \setminus '["jsonrpc":"2.0","method":"opp2p\_peers","params":[true],"id":1]' \setminus http://localhost:9545 \ Sample \ success \ output: the property of the property
{ "jsonrpc" :
```

```
"2.0" , "id" :
 1 , "result" : { "totalConnected" :
20\ , "peers": \{ \ "16 \ Uiu \ 2 \ HAkvNYscHu4V1uj 6 \ fVWkwrAMCRsqXDSq4mUbhpGq4LttYsC": \{ \ "peerID": \ 20, \ Theorem \ 20,
 "16Uiu2HAkvNYscHu4V1uj6fVWkwrAMCRsqXDSq4mUbhpGq4LttYsC", "nodeID":
 "d693c5b58424016c0c38ec5539c272c754cb6b8007b322e0ecf16a4ee13f96fb", "userAgent":
 "optimism", "protocolVersion":
 "", "ENR":
"", "addresses" : [ "/ip4/20.249.62.215/tcp/9222/p2p/16Uiu2HAkvNYscHu4V1uj6fVWkwrAMCRsqXDSq4mUbhpGq4LttYsC" ] , "protocols" : [ "/ipfs/ping/1.0.0" , "/meshsub/1.0.0" , "/meshsub/1.1.0" , "/opstack/req/payload_by_number/11155420/0" , "/ipfs/id/1.0.0" , "/ipfs/id/1.0.0" , "/ipfs/id/1.0.0" ] , "connectedness" :
 1, "direction":
 1, "protected":
false, "chainID":
0 , "latency" :
0 , "gossipBlocks" :
true , "scores" : { "gossip" : { "total" :
 -5.04, "blocks": { "timeInMesh":
0 , "firstMessageDeliveries" :
0, "meshMessageDeliveries":
0 , "invalidMessageDeliveries" :
0 } , "IPColocationFactor" :
0, "behavioralPenalty":
0 } , "reqResp" : { "validResponses" :
0 , "errorResponses" :
0, "rejectedPayloads":
0 } } } , ... "bannedPeers" : [] , "bannedIPS" : [] , "bannedSubnets" : [] } }
 opp2p_peerStats
 Returns your peer stats.
curl cast curl
 -X
 POST
 -H
 "Content-Type: application/json"
 { "jsonrpc" :
 "2.0", "id":
 1 , "result" : { "connected" :
20 , "table" :
94 . "blocksTopic" :
20 , "blocksTopicV2" :
 18 , "banned" :
0 , "known" :
71 } }
opp2p_discoveryTable
Returns your peer discovery table.
curl cast curl
 -X
 POST
 "Content-Type: application/json"
 --data \ '{"jsonrpc":"2.0","method":"opp2p_discoveryTable","params":[],"id":1}' \ http://localhost:9545 Sample success output:
{ "jsonrpc" :
 "2.0", "id":
1 , "result" : [ "enr:-J24QGC_SzoGG4EqyvO_082paQOwhvECeWGT-kaenrHdE2_iLTLeGmH-IOVpqEjC0L-yWmkl-c7598VaCjHQRNWn1CyGAYsqDgrFgmlkgnY0gmlwhNgp3WeHb3BzdGFja4OFQgCJc2VjcDl1NmsxoQPiq20PNZYzyvpEifcGVrOXHfM94JeWSgDL07l2hSl0d4N0Y3CCJAaDdWRwgiQG" , "enr:-Size of the control of the contr
 The HidmpoaVLdfVD2cw1cRpNuwmvH_bQtQ1dqrrZw9FqiMbXbFRQf9lvjrlKSFLodbsRALIFATICGAYuQClJigmlkgnY0gmlwhKl3ZuaHb3BzdGFja4O6BACJc2VjcDl1NmsxoQLQRz2CH95qQd6vmF5saV-WOoTZobNfSt-FUdVa7R35nYN0Y3CClyuDdWRwgiMr", "enr:-J24QEMvLGmRBbDw48cHq9GzHSDiPJ3eUpZiOMMXwvxN0JLQMZsS3-J6DKP2Uu--
65BC5IAQF3zv7ukQDbEjuZpr5iGAYs0a4segmlkgnY0gmlwhEEVRWmHb3BzdGFja4OFQqCJc2VjcD11NmxxoQJl0VT2eysk6v3t63pOZlGgJReDnNqh30roStkURlpGCoN0Y3CCJAaDdWRwgiQG", ...
"enr:-J24QOdxnjbP7MkCFBuEjWe50NGdtAECj8tyrDBmXm8Y-JydVeoNF_IXNqodlUqeAfuAe3gcLceju96NVf8as78Eaq-
 GAYlu7qN_gmlkgnY0gmlwhAUJaBCHb3BzdGFja4OFQgCJc2VjcDl1NmsxoQKTb2oTlnUf5v-jP7YXZXl1wcfeSuPvsVd2niNV3BXHBYN0Y3CCJAaDdWRwgiQG"]}
 opp2p_blockPeer
Blocks a peer.
```

curl cast curl

```
-X
 POST
 -H
 "Content-Type: application/json"
 { "jsonrpc" :
 "2.0" , "id" :
 1 , "result" :
null }
opp2p_unblockPeer
Unblocks a peer.
 curl cast curl
 -X
 POST
 "Content-Type: application/json"
 { "jsonrpc" :
 "2.0" , "id" :
 1 , "result" :
null }
opp2p_listBlockedPeers
 Returns a list of your blocked peers.
curl cast curl
 -X
 POST
 -H
 "Content-Type: application/json"
 --data \ '{"jsonrpc":"2.0","method":"opp2p_listBlockedPeers","params":[j,"id":1}' \ http://localhost:9545 Sample success output:
 \{ \ "jsonrpc": "2.0", \ "id": 1, \ "result": [\ "16Uiu2HAmV3PueiaHj7Rg2bs3mrRUo2RVhjXRMpH67k9iZquDGQ8v"] \ \} 
 opp2p_blockAddr
Blocks ip address.
curl cast curl
 -X
 POST
 -H
 "Content-Type: application/json"
 { "jsonrpc" :
 "2.0" , "id" :
 1 , "result" :
null }
opp2p_unblockAddr
Unblocks ip address.
curl cast curl
 -X
POST
 "Content-Type: application/json"
 -data \ ' \{"jsonrpc":"2.0", "method":"opp2p\_unblockAddr", "params": [""], "id":1\}' \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ output: \ ' http://localhost:9545 \ Sample \ success \ output: \ ' http://localhost:9545 \ Sample \ output: \ ' ht
{ "jsonrpc" :
 "2.0" , "id" :
 1 , "result" :
null }
 opp2p_listBlockedAddrs
 Returns a list of blocked ip addresses.
curl cast curl
 -X
```

POST
н
"Content-Type: application/json"
$-\text{-data} \setminus \text{'["jsonrpc":"2.0","method":"opp2p_listBlockedAddrs","params":[],"id":1} \setminus \text{http://localhost:9545 Sample success output:}$
{ "jsonrpc": "2.0", "id": 1, "result": ["2607:f8b0:4002:c0c::65"] }
opp2p_blockSubnet
Blocks subnet.
curl cast curl
-X
POST
н
"Content-Type: application/json"
$data \ '\ ''["jsonrpc":"2.0","method":"opp2p_blockSubnet","params":[""],"id":1]' \ '\ http://localhost:9545\ Sample\ success\ output: \ '\ '\ '\ '\ '\ '\ '\ '\ '\ '\ '\ '\ '$
{ "jsonrpc" :
"2.0" , "id" :
1 , "result" :
null }
opp2p_unblockSubnet
Unblocks subnet.
curl cast curl
-X
POST
н
"Content-Type: application/json"
$data \ '\ (""jsonrpc":"2.0","method":"opp2p_unblockSubnet","params":[""],"id":1\}' \ '\ http://localhost:9545\ Sample\ success\ output: \ '\ http://localhost:9545\ Sample\ success\ output:$
{ "jsonrpc" :
"2.0" , "id" :
1 , "result" :
null }
opp2p_listBlockedSubnets
oppzp_nstblockeusubliets
Returns list of blocked subnets.
Returns list of blocked subnets.
Returns list of blocked subnets. curl cast curl
Returns list of blocked subnets. curl cast curl -X
Returns list of blocked subnets. curl cast curl -X POST
Returns list of blocked subnets. curl cast curl -X POST -H
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json"
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '("jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}'\ http://localhost:9545 Sample success output:
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '("jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" :
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '("jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0" , "id" :
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '("jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0" , "id" : 1 , "result" : [] }
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0" , "id" : 1 , "result" : [] } opp2p_protectPeer
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0" , "id" : 1 , "result" : [] } opp2p_protectPeer Protect peer.
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '("jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}'\ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0" , "id" : 1 , "result" : [] } opp2p_protectPeer Protect peer. curl cast curl
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Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" -data \ '("jsonrpc":"2.0", "method":"opp2p_listBlockedSubnets", "params":[], "id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0" , "id" : 1 , "result" : [] } opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json"
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0" , "id" : 1 , "result" : [] } opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0","method":"opp2p_protectPeer","params":["],"id":1}' \ http://localhost:9545 Sample success output:
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}\ http://localhost:9545 Sample success output: {"jsonrpc": "2.0", "id": 1, "result":[]} opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0","method":"opp2p_protectPeer","params":["],"id":1}\ http://localhost:9545 Sample success output: {"jsonrpc":"2.0","method":"opp2p_protectPeer","params":["],"id":1}\ http://localhost:9545 Sample success output: {"jsonrpc":"2.0","method":"opp2p_protectPeer","params":["],"id":1}\ http://localhost:9545 Sample success output:
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" -data \ '{"jsonrpc":"2.0", "method": "opp2p_listBlockedSubnets", "params":[], "id":1}\ http://localhost:9545 Sample success output: {"jsonrpc": "2.0", "id": 1, "result":[]} opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json" -data \ '{"jsonrpc":"2.0", "method": "opp2p_protectPeer", "params":["], "id":1}\ http://localhost:9545 Sample success output: {"jsonrpc":"2.0", "method": "opp2p_protectPeer", "params":["], "id":1}\ http://localhost:9545 Sample success output: {"jsonrpc":"2.0", "method": "opp2p_protectPeer", "params":["], "id":1}\ http://localhost:9545 Sample success output: {"jsonrpc":"2.0", "id":
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0", "method": "opp2p_listBlockedSubnets", "params":[], "id":1}\ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0", "id" : 1, "result" : [] } opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json" data \ '{"jsonrpc":"2.0", "method": "opp2p_protectPeer", "params":["], "id":1}\ http://localhost:9545 Sample success output: { "jsonrpc":"2.0", "method": "opp2p_protectPeer", "params":["], "id":1}\ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0", "id" : 1, "result" :
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" -data \ '["jsonrpc":"2.0", "method":"opp2p_listBlockedSubnets", "params":[], "id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0", "id" : 1, "result" : [] } opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json" -data \ '["jsonrpc":"2.0", "method":"opp2p_protectPeer", "params":["], "id":1}' \ http://localhost:9545 Sample success output: { "jsonrpc" : "2.0", "id" : 1, "result" : null }
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '["jsonrpc"."2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}' \ http://localhost:9545 Sample success output: {"jsonrpc" : "2.0", "id" : 1, "result" : []} opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json" data \ '["jsonrpc":"2.0","method":"opp2p_protectPeer","params":["],"id":1}' \ http://localhost:9545 Sample success output: {"jsonrpc" : "2.0", "id" : 1, "result" :
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json" data \ '("jsonrpc"."2.0","method":"opp2p_listBlockedSubnets","params":[],"id":1}'\ http://localhost:9545 Sample success output: {"jsonrpc" : "2.0", "id" : 1, "result" : []} opp2p_protectPeer Protect peer. curl cast curl -X POST -H "Content-Type: application/json" data \ '("jsonrpc":"2.0","method":"opp2p_protectPeer","params":["],"id":1}'\ http://localhost:9545 Sample success output: {"jsonrpc":"2.0","method":"opp2p_protectPeer","params":["],"id":1}'\ http://localhost:9545 Sample success output: {"jsonrpc":"2.0", "id" : 1, "result" : null } opp2p_unprotectPeer Unprotect peer.
Returns list of blocked subnets. curl cast curl -X POST -H "Content-Type: application/json"data\'{"jsonrpc":"2.0", "method":"opp2p_listBlockedSubnets","params":[],"id":1}\ http://localhost:9545 Sample success output: { "jsonrpc" :

"Content-Type: application/json"
$-\text{-data} \ ' \{\text{"jsonrpc":"2.0","method":"opp2p_unprotectPeer","params":[\text{""}],"id\text{":1}}' \ \text{http://localhost:9545 Sample success output:} \\$
{ "jsonrpe" :
"2.0" , "id" :
1, "result":
null }
opp2p_connectPeer
Connect peer.
curl cast curl
-X
POST
н
"Content-Type: application/json"
data \ '{"jsonrpc":"2.0","method":"opp2p_connectPeer","params":[],"id":1}' \ http://localhost:9545 Sample success output:
{ "jsonrpe" :
"2.0" , "id" :
1, "result":
null }
opp2p_disconnectPeer
Disconnect peer.
curl cast curl
-X
POST
-Н
"Content-Type: application/json"
data \ '{"jsonrpc":"2.0","method":"opp2p_disconnectPeer","params":[""],"id":1}\ http://localhost:9545 Sample success output:
{"jsonrpc":
"2.0" , "id" :
1 , "result" :
null }
admin
todo: add admin namespace description
admin_resetDerivationPipeline
Resets the derivation pipeline.
curl cast curl
-X
POST
-Н
"Content-Type: application/json"
data \ '{"jsonrpc":"2.0","method":"admin_resetDerivationPipeline","params":[],"id":1}' \ http://localhost:9545 Sample success output:
todo: add Sample success output
admin_startSequencer
Starts thh sequencer.
curl cast curl
-X
POST
-Н
"Content-Type: application/json"
$- data \ ' \{"jsonrpc":"2.0","method":"admin_startSequencer","params":[],"id":1\}' \ \ http://localhost:9545 \ Sample \ success \ output: \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$
todo: add Sample success output
admin_stopSequencer
Stops sequencer.
curl cast curl
-X
POST
-Н
"Content-Type: application/json"
data \ '{"jsonrpc":"2.0","method":"admin_stopSequencer","params":[],"id":1}' \ http://localhost:9545 Sample success output:
·

todo: add Sample success output

admin_sequencerActive

TODO: add description

curl cast curl

-X

POST

-H

"Content-Type: application/json"

 $--data \ ' \{"jsonrpc":"2.0", "method":"admin_sequencerActive", "params": [todo], "id":1\}' \ \ http://localhost: 9545 \ Sample success output: [todo], "id":1, "http://localhost: 9545 \ Sample success output: [todo], "id":1, "$

todo: add Sample success output

op-geth

op-geth implements the Execution-Layer, with minimal changes for a secure Ethereum-equivalent application environment.

The execution engine's RPC interface is identical to the upstream Geth RPC interface (opens in a new tab). The responses are nearly identical too, except we also include the L1 gas usage and price information.

Network Upgrades Software Releases