Get UserOperation Status

biconomy_getUserOperationStatus

The endpoint is responsible for returning the status of transactionHash associated with the userOpHash.

Cases:

- Incorrect userOphash sent in the request
- Not submitted on chain (can be in bundler mempool or rejected due to some error)
- Submitted on chain but not included in a block
- Included in a block

The backend should automatically return correct hashes and status in case of bumped up transactions or front-runned transactions.

Parameters

Body

Param Type Description Required method string Name of method in this case: eth_estimateUserOperationGas Required params array An array consisting of the userop hash returned byeth_sendUserOperation Required id string id for request determined by client for JSON RPC requests Required jsonrpc string JSON RPC version in this case 2.0.0 Required

Request

{ "method": "biconomy_getUserOperationStatus", "params": ["0x9aa5864f9ebb6ec43992bdc957d9bef454c661a351c1698919339cf2587ed11c"], "id": 1693369916, "jsonrpc": "2.0" }

Responses

If userOpHash was not found:

{ "jsonrpc": "2.0", "id": 1693369916, "error": { "code": -32094, "message": "userOpHash not found" } } If userOp is in mempool

{ "jsonrpc": "2.0", "id": 1693369916, "result": { "state": "BUNDLER_MEMPOOL" } } If userOp could not be sent on chain:

{ "jsonrpc": "2.0", "id": 1693369916, "result": { "state": "DROPPED_FROM_BUNDLER_MEMPOOL" } } If transaction was submitted on chain but not confirmed

{ "jsonrpc": "2.0", "id": 1693369916, "result": { "state": "SUBMITTED", "transactionHash": "0xabc" } } If transaction is confirmed:

{ "jsonrpc": "2.0", "id": 1693369916, "result": { "state": "CONFIRMED", "message": "Transaction is confirmed" OR "Transaction was frontrunned, check the new transaction hash in receipt" "userOperationReceipt": { "userOpHash": "0x9aa5864f9ebb6ec43992bdc957d9bef454c661a351c1698919339cf2587ed11c", "entryPoint": "0x5ff137d4b0fdcd49dca30c7cf57e578a026d2789", "sender": "0x5A927A01a32cE02AF4B438b7848BceBc52C8Ea3e", "nonce": 25, "success": "true", "paymaster": "0x00000f79b7faf42eebadba19acc07cd08af44789", "actualGasCost": 84514000000000, "actualGasUsed": 845140, "logs": [{ "transactionIndex": 4, "blockNumber": 139280938, "transactionHash": "0xd6460eae405ea5a03ace5026bd78b27fd5f6ebd255b6ef7320b13188d99084ac", "address": "0x5FF137D4b0FDCD49DcA30c7CF57E578a026d2789", "topics": ["0x49628fd1471006c1482da88028e9ce4dbb080b815c9b0344d39e5a8e6ec1419f", "0x9aa5864f9ebb6ec43992bdc957d9bef454c661a351c1698919339cf2587ed11c", "0x0000000000000000000000005a927a01a32ce02af4b438b7848bcebc52c8ea3e", "0x00000000000000000000000000000f79b7faf42eebadba19acc07cd08af44789"], "data": "0x00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001000000000000000000000000000000000000" "logIndex": 7, "blockHash": "0xad86d2037e714aaea8126e32dfb5c12575d5a89698300ff43d413ddf7990d842" }], "receipt": { "to": "0x5FF137D4b0FDCD49DcA30c7CF57E578a026d2789", "from": "0x125Ad1988Cf1Ec8c2Dd7357621ad825603768365", "contractAddress": null, "transactionIndex": 4, "gasUsed": "0x0b4e61", "logsBloom": "0x000000000000000000000000000000000000000000000000000000010000000000000000000000000000000000000000000000000200000000000000000000003000020000000028010000" "blockHash": "0xad86d2037e714aaea8126e32dfb5c12575d5a89698300ff43d413ddf7990d842", "transactionHash": "0xd6460eae405ea5a03ace5026bd78b27fd5f6ebd255b6ef7320b13188d99084ac", "logs": [{ "transactionIndex": 4, "blockNumber": 139280938, "transactionHash": "0xd6460eae405ea5a03ace5026bd78b27fd5f6ebd255b6ef7320b13188d99084ac", "address": "0x5FF137D4b0FDCD49DcA30c7CF57E578a026d2789", "topics": ["0xbb47ee3e183a558b1a2ff0874b079f3fc5478b7454eacf2bfc5af2ff5878f972"], "data": "0x", "logIndex": 4, "blockHash": "0xad86d2037e714aaea8126e32dfb5c12575d5a89698300ff43d413ddf7990d842" }, { "transactionIndex": 4, "blockNumber": 139280938, "transactionHash": "0xd6460eae405ea5a03ace5026bd78b27fd5f6ebd255b6ef7320b13188d99084ac", "address": "0x1758f42Af7026fBbB559Dc60EcE0De3ef81f665e", "topics": ["0xddf252ad1be2c89b69c2b068fc378daa952ba7f163c4a11628f55a4df523b3ef", "0x0000000000000000000000000000000000000000000000000000000000000000", "0x0000000000000000000000005a927a01a32ce02af4b438b7848bcebc52c8ea3e", "0x000000000000000000000000000000000000000000000000000000000000073f"], "data": "0x", "logIndex": 5, "blockHash": "0xad86d2037e714aaea8126e32dfb5c12575d5a89698300ff43d413ddf7990d842" }, { "transactionIndex": 4, "blockNumber": 139280938, "transactionHash": "0xd6460eae405ea5a03ace5026bd78b27fd5f6ebd255b6ef7320b13188d99084ac", "address": "0x00000f79B7FaF42EEBAdbA19aCc07cD08Af44789", "topics": ["0x5dc1c754041954fe976773fa441397a7928c7127a1c83904214a7d2563399007", "0x0000000000000000000000000000000000000095857bffc1cd833cd196af29eb0f61dbc66db4ad", "0x00000000000000000000000000000000000000000000000004d1565f1d700"], "data": "0x", "logIndex": 6, "blockHash": "0xad86d2037e714aaea8126e32dfb5c12575d5a89698300ff43d413ddf7990d842" }, { "transactionIndex": 4, "blockNumber": 139280938, "transactionHash": "0xd6460eae405ea5a03ace5026bd78b27fd5f6ebd255b6ef7320b13188d99084ac", "address": "0x5FF137D4b0FDCD49DcA30c7CF57E578a026d2789", "topics": ["0x49628fd1471006c1482da88028e9ce4dbb080b815c9b0344d39e5a8e6ec1419f", "0x9aa5864f9ebb6ec43992bdc957d9bef454c661a351c1698919339cf2587ed11c", "0x0000000000000000000000005a927a01a32ce02af4b438b7848bcebc52c8ea3e", "0x00000000000000000000000000000f79bf7faf42eebadba19acc07cd08af44789"], "data": "0x00000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000000001900000000000000000000000000000000000000000000000000000000000000000" "logIndex": 7, "blockHash": "0xad86d2037e714aaea8126e32dfb5c12575d5a89698300ff43d413ddf7990d842" }], "blockNumber": 139280938, "confirmations": 1, "cumulativeGasUsed": "0x140267", "effectiveGasPrice": "0x05f5e100", "status": 1, "type": 2, "byzantium": true } } } } If transaction failed:

{ "jsonrpc": "2.0", "id": 1693369916, "result": { state: "FAILED", message: "Transaction failed on chain with message: AA 25 invalid nonce" transactionHash: "0xabc" }}