API Overview

# #

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Info

The API exposed by the EN is designed to be Web3-compliant. Any deviation from the Ethereum behavior is likely unintended, and we encourage users to report such discrepancies.

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eth_ Namespace

Data getters in this namespace operate in the L2 domain. They deal with L2 block numbers, check balances in L2, and more.

Method Notes eth_blockNumber eth_chainId eth_call eth_estimateGas eth_gasPrice eth_newFilter Maximum amount of installed filters is configurable eth_newBlockFilter Same as above eth_newPendingTransactionsFilter Same as above eth_uninstallFilter eth_getLogs Maximum amount of returned entities can be configured eth_getFilterLogs Same as above eth_getFilterChanges Same as above eth_getBalance eth_getBlockByNumber eth_getBlockByHash eth_getBlockTransactionCountByNumber eth_getBlockTransactionCountByHash eth_getCode eth_getStorageAt eth_getTransactionCount eth_getTransactionByHash eth_getTransactionByBlockHashAndIndex eth_getTransactionByBlockNumberAndIndex eth_getTransactionReceipt eth_protocolVersion eth_sendRawTransaction eth_syncing EN is considered synced if it's less than 11 blocks behind the main node. eth_coinbase Always returns a zero address eth_accounts Always returns an empty list eth_getCompilers Always returns an empty list eth_hashrate Always returns zero eth_getUncleCountByBlockHash Always returns zero eth_getUncleCountByBlockNumber Always returns zero eth_mining Always returns false

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PubSub

This is exclusively available on the WebSocket servers.

Method Notes eth_subscribe Maximum amount of subscriptions is configurable eth_subscription

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net_ Namespace

Method Notes net_version net_peer_count Always returns 0 net_listening Always returns false

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web3_ Namespace

Method Notes web3_clientVersion

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debug_ Namespace**

This namespace provides a set of non-standard RPC methods for developers to inspect and debug calls and transactions. By default, this namespace is disabled but can be activated using theEN_API_NAMESPACES setting. Please refer to the configuration section for more details.;

Method Notes debug_traceBlockByNumber debug_traceBlockByHash debug_traceCall debug_traceTransaction

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zks Namespace

This namespace holds rollup-specific extensions to the Web3 API. Only the methods documented are deemed public. Other methods in this namespace, though exposed, are not stable and may change without notice.

Method Notes zks_estimateFee zks_estimateGasL1ToL2 zks_getAllAccountBalances zks_getBlockDetails zks_getBridgeContracts zks_getBytecodeByHash zks_getConfirmedTokens zks_getL1BatchBlockRange zks_getL1BatchDetails zks_getL2ToL1LogProof zks_getL2ToL1MsgProof zks_getMainContract zks_getRawBlockTransactions zks_getTestnetPaymaster zks_getTokenPrice zks_getTransactionDetails zks_L1BatchNumber zks_L1ChainId

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en Namespace

This namespace includes methods that external nodes call on the main node during syncing. If this namespace is active, other ENs can sync using this node.