MultiAdaptive DA RPC Method

eth_sendDAByParams

user send DA to the MultiAdaptive Execution client。

Parameters

- 1.sender,20 Bytes - sender: who send the DA;
- 2.index integer - sender send DA index number.
- 3.length integer - DA length.
- 4.commitment 48 Bytes - created by DA, we can match the commitment and DA by zkg algorithms.
- 5.data N Bytes - DA data.
- 6.dasKey 32 Bytes - node ownership room key
- 7.signData N Bytes - signature.
- 8.txHash 32 Bytes - txHash of L1 transaction.

Return

signData N Bytes - signature by the MultiAdaptive Execution client.

eth_sendBatchDAs

Parameters

-1. datas Array - an array of batch DAs

Return

signData Array - an array of batch signature

eth_getDAByHash

get DA data by Txhash.

Parameters

- hash 32 Bytes - the L1 transaction hash.

Return

Object - A DA object, or null when no DA was found:

- Sender: 32 Bytes - DA sender.
- Length: integer - DA data length.
- Index: integer - DA sender of index.
- Commitment: 48 Bytes - created by DA, we can match the commitment and DA by zkg algorithms.
- Data: N Bytes - DA data.
- Sign: N Bytes - signature.
- TxHash: 32 Bytes - txHash of L1 transaction.

eth_getBatchDAByHashes

get batch DA data by batch Txhash.

Parameters

object - A TxHashs obecjt

- TxHashes Array: - a tx hash list;
- BlockHash 32 Bytes - The hash of a block.
- BlockNumber - integer of the number of block.

Return

object - A DAs obecjt

- DAs Array : - batch of DA object
- Errs Array : - batch of error info

eth_getDAByCommitment

get DA data by Commitment.

Parameters

- commitment string : string format of commitment

Return

Object - A DA object, or null when no DA was found:

- Sender: 32 Bytes - DA sender.
- Length: integer - DA data length.
- Index: integer - DA sender of index.

- Commitment: 48 Bytes - created by DA, we can match the commitment and DA by zkg algorithms.
- Data: N Bytes - DA data.
- Sign: N Bytes - signature.
- TxHash: 32 Bytes - txHash of L1 transaction.

eth_getBatchDAByCommitments

get a batch of DA data by batch of Commitments.

Parameters

Object - A Commitments object

- Commits Array : a list of string format Commitment

Resturn

object - A DAs obecjt

- DAs Array : - batch of DA object
- Errs Array : - batch of error info