Relaying Ethereum Transactions

Relayer commands are found in thenamadar binary, which at the moment can only be installed from source.

Relaying validator set updates

In order for any transactions to be relayed to the Ethereum smart contract, the validator sets need to be up to date on the Ethereum side. This is updated by a relayer which can be set up in the following manner:

namadar

validator-set

relay

--daemon

--confirmations

1

--retry-sleep

0

--success-sleep

0

--safe-mode The--safe-mode flag is optional, but recommended. It will stop the relayer from being shut down by^C and will instead wait for the current batch of transactions to be relayed before shutting down.

More optional flags are available, which can be found by runningnamadar validator-set relay --help . Notably,--eth-gas and--eth-gas-price will allow you to set the maximum gas-limit and gas-price, respectively, that the relayer will use when relaying transactions to the Ethereum smart contract.

Relaying transactions

Transactions are relayed in batches. The relayer will wait until it has a batch of transactions to relay before sending them to the Ethereum smart contract. This is done to reduce the number of transactions that need to be sent to the Ethereum smart contract, and thus reduce the gas costs.

The relayer can get a "recommended-batch" of signed transactions to relay by running:

namadar

ethereum-bridge-pool

recommend-batch If this is favourable for the relayer, it can construct the proof and relay it to the Ethereum smart contract by running:

namadar

ethereum-bridge-pool

relay-proof

--hash-list HASH_LIST As this involves an Ethereum transaction, the--eth-gas and--eth-gas-price flags are also available here. Alternatively, the relayer can run the command:

namadar

ethereum-bridge-pool

construct-proof

--hash-list HASH_LIST To only construct the proof without relaying it. The proof could then be relayed manually by the relayer.

[Eth Bridge](#) [Integration Guide](#)