



The API endpoint can be invoked by a service or through the webpage UI by the admin. Webpage displays all the transactions stored in the database along with its status.

The API provides an endpoint for signing and broadcasting the transaction. Transaction broadcast service is responsible for signing and storing the transaction in the database for further processing. API endpoint returns 200 OK status code when the transaction broadcast service successfully signed and stored it in the database.

When the API endpoint receives invalid request, then 400 BAD REQUEST is returned to the caller.

If transaction broadcast service is unable to sign or store the signed transaction in the database, API endpoint returns 500 INTERNAL SERVER ERROR.

Service/
Admin through
UI Interface
(webpage)

API

Transaction
Broadcaster
Service

EVM
Blockchain
network

Broadcasted
transaction
database

SCHEDULED FUNCTION

retrieve unbroadcasted
signed transaction & previously
failed transaction broadcasts
(loop)
broadcast signed
transaction

SUCCESSFUL BROADCAST (20-30 sec)

success code

database updated
with successful
broadcast

DELAYED BROADCAST (>30 sec)

WAIT

database updated
with successful
broadcast

FAILED BROADCAST

failure code

database updated
with unsuccessful
broadcast

Webpage updated

retrieve transactions
with status

Scheduled function in the transaction broadcast service retrieves all the un-broadcasted and previously failed broadcast transactions, it loops through all the transactions and broadcasts it to EVM blockchain network.

SUCCESS:

Transaction broadcast to EVM blockchain network is successful within 20-30 seconds.

DELAYED BROADCAST:

Transaction broadcast to EVM blockchain network is delayed but successful after 30 seconds. In this scenario transaction broadcast service waits for response from EVM blockchain network.

FAILED BROADCAST

Transactions are unable to be broadcast to the EVM blockchain network. It will be picked up by the scheduled function for retry.

Database stores signed transactions along with its broadcast status.

The transaction broadcast status is updated in the database in all the above cases. The webpage is also updated accordingly.