Client

Queries

In this section we describe the queries required on grpc server.

// Query defines the gRPC querier service. service

Query

{ // Parameters queries the parameters of the module. rpc

Params (QueryParamsRequest)

returns

(QueryParamsResponse)

{ option

(google . api . http) . get =

"/neutron-org/neutron/contractmanager/params" ; }

// Queries a Failures by address. rpc

Failure (QueryGetFailuresByAddressRequest)

returns

(QueryGetFailuresByAddressResponse)

{ option

(google . api . http) . get =

"/neutron-org/neutron/contractmanager/failure/{address}" ; }

// Queries a list of failed addresses. rpc

AllFailures (QueryAllFailureRequest)

returns

(QueryAllFailureResponse)

{ option

(google . api . http) . get =

"/neutron-org/neutron/contractmanager/failure" ; } }

failures[address]

Returns list of all failures.

neutrond query contractmanager failures Example Returns info about all failures:neutrond query contractmanager failures Output:

failures : -

address : neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj error :

'codespace: wasm, code: 5' id :

"1" sudo_payload : <serialized msg of MessageSudoCallback type

    -

address : neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj error :

'codespace: wasm, code: 5' id :

"2" sudo_payload : <serialized msg of MessageSudoCallback type

-

address : neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj error :

'codespace: contractmanager, code: 1103' id :

"3" sudo_payload : <serialized msg of MessageSudoCallback type

Returns list of all failures for specific contract address.

neutrond query contractmanager failures [address] Example Returns failures for specific contract address:neutrond query contractmanager failures neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj Output:

failures : -

address : neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj error :

'codespace: wasm, code: 5' id :

"1" sudo_payload : <serialized msg of MessageSudoCallback type

-

address : neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj error :

'codespace: wasm, code: 5' id :

"2" sudo_payload : <serialized msg of MessageSudoCallback type

-

address : neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj error :

'codespace: contractmanager, code: 1103' id :

"3" sudo_payload : <serialized msg of MessageSudoCallback type

Failure Details

Returns an exact error why contract failed to process certain ibc acknowledgement.

Note It is a CLI-like query, and you can not perform it onchain, e.g. you can not make a query from a contract. The reason is - cosmos-sdk do not store raw errors in a storage due to non-deterministic nature of errors. You can not consider the data which are not under you control as deterministic. But to make developers life easier we inorporated the following mechanism. In case of error happened during thesudo call we emit an event with full error text under the key(contract_address,failure_id) . Events are not the part of the consensus, and it's safe to emit any data you want. The CLI command looks fortransaction by a set of events.

Note If the node you are making query to either does not index transaction or already cleared the block with the wanted transaction, you get the error -detailed failure error message not found in node events . In this case you need to query a node, which:

1) Indexes transactions.

2) Keeps block with wanted height. neutrond q contractmanager failure-details [address]

[failure_id] Example Query the detailed error related to a contract's sudo call failure:neutrond q contractmanager failure-details neutron1nxshmmwrvxa2cp80nwvf03t8u5kvl2ttr8m8f43vamudsqrdvs8qqvfwpj 1 Output:

dispatch :

submessages :

Generic error :

Integrations test mock submsg error : execute wasm contract failedPrevious Overview Next State