Messages

CreateDenom

Creates a denom offactory/{creator address}/{subdenom} given the denom creator address and the subdenom. Subdenoms can contain[a-zA-Z0-9./] .

message MsgCreateDenom { string sender = 1 [(gogoproto.moretags) = "yaml:\"sender\""]; string subdenom = 2 [(gogoproto.moretags) = "yaml:\"subdenom\""]; } State Modifications:

- FundNeutron DAO Treasury
- with the denom creation fee from the creator address, specified inParams
- ;
- Consume an amount of gas corresponding to theDenomCreationGasConsume
- parameter specified inParams
- ;
- SetDenomMetaData
- via bank keeper;
- SetAuthorityMetadata
- for the given denom to store the admin for the created denomfactory/{creator address}/{subdenom}
- . Admin is automatically set as the Msg sender;
- Add denom to theCreatorPrefixStore
- , where a state of denoms created per creator is kept.

Mint

Minting of a specific denom is only allowed for the creator of the denom registered duringCreateDenom

message MsgMint { string sender = 1 [(gogoproto.moretags) = "yaml:\"sender\""]; cosmos.base.v1beta1.Coin amount = 2 [(gogoproto.moretags) = "yaml:\"amount\"", (gogoproto.nullable) = false]; } State Modifications:

- Safety check the following* Check that the denom minting is created viatokenfactory
-
    - module
-
    - Check that the sender of the message is the admin of the denom
- Mint designated amount of tokens for the denom viabank
- module

Burn

Burning of a specific denom is only allowed for the creator of the denom registered duringCreateDenom

message MsgBurn { string sender = 1 [(gogoproto.moretags) = "yaml:\"sender\""]; cosmos.base.v1beta1.Coin amount = 2 [(gogoproto.moretags) = "yaml:\"amount\"", (gogoproto.nullable) = false]; } State Modifications:

- Safety check the following* Check that the denom has been created viatokenfactory
-
    - module
-
    - Check that the sender of the message is the admin of the denom
- Burn designated amount of tokens for the denom viabank
- module

ForceTransfer

Force transferring of a specific denom is only allowed for the creator of the denom registered duringCreateDenom .

message MsgForceTransfer { option (amino.name) = "osmosis/tokenfactory/force-transfer";

string sender = 1 [(gogoproto.moretags) = "yaml:\"sender\""]; cosmos.base.v1beta1.Coin amount = 2 [(gogoproto.moretags) = "yaml:\"amount\"", (gogoproto.nullable) = false]; string transferFromAddress = 3 [(gogoproto.moretags) = "yaml:\"transfer_from_address\""]; string transferToAddress = 4 [(gogoproto.moretags) = "yaml:\"transfer_to_address\""]; } State Modifications:

- Safety check the following* Check that the denom has been created viatokenfactory
-
    - module

-
  - Check that the sender of the message is the admin of the denom
- Send designated amount of tokens for the denom viabank
- module fromtransferFromAddress
- totransferToAddress

ChangeAdmin

Change the admin of a denom. Note, this is only allowed to be called by the current admin of the denom.

message MsgChangeAdmin { string sender =

1

[

(gogoproto . moretags)

=

"yaml:\"sender\""

] ; string denom =

2

[

(gogoproto . moretags)

=

"yaml:\"denom\""

] ; string newAdmin =

3

[

(gogoproto . moretags)

=

"yaml:\"new_admin\""

] ; }

SetDenomMetadata

Setting of metadata for a specific denom is only allowed for the admin of the denom. It allows the overwriting of the denom metadata in the bank module.

// MsgSetDenomMetadata is the sdk.Msg type for allowing an admin account to set // the denom's bank metadata message MsgSetDenomMetadata { string sender =

1

[(gogoproto . moretags)

=

"yaml:\"sender\""] ; cosmos . bank . v1beta1 . Metadata metadata =

2

[(gogoproto . moretags)

=

"yaml:\"metadata\"" , (gogoproto . nullable)

=

false] ; } State Modifications:

- Check that sender of the message is the admin of denom;
- ModifyMetadata
- state entry inbank
- module to change the metadata for the denom;

SetBeforeSendHook

Allowing to assign a CosmWasm contract to call with a BeforeSend hook for a specific denom is only allowed for the creator of the denom registered duringCreateDenom .

message MsgSetBeforeSendHook { option (amino.name) = "osmosis/tokenfactory/set-beforesend-hook";

string sender = 1 [(gogoproto.moretags) = "yaml:\"sender\""]; string denom = 2 [(gogoproto.moretags) = "yaml:\"denom\""]; string contract_addr = 3 [(gogoproto.moretags) = "yaml:\"contract_addr\""]; } State Modifications:

- Safety check the following* Check that the denom has been created viatokenfactory
-
    - module
-
    - Check that the sender of the message is the admin of the denom
- Sets a bank hook for specifieddenom
- andcontract_addr

UpdateParams

Updatesparams of the module.

message MsgChangeAdmin { string sender =

1

[

(gogoproto . moretags)

=

"yaml:\"sender\""

] ; cosmos . bank . v1beta1 . Metadata metadata =

2

[

(gogoproto . moretags)

=

"yaml:\"metadata\"" ,

(gogoproto . nullable)

=

false

] ; } State Modifications:

- Check that sender of the message is theAuthority
- of the module. Currently it's an address of Neutron'sAdminModule
- ModifyParams
- state entry to update params of the modulePrevious Overview Next Params