Transparent IBC

You can send assets to another IBC compliant chain, such as a Cosmos SDK chain or another Namada chain, using theibc-transfer command innamadac .

This section covers sending assets to and from a transparent (tnam) address.

Prerequisites

- An active IBC connection has been created and maintained between the two chains by operators running relayer
- software such asHermes(opens in a new tab)
- .
- You will need to know the corresponding channel id

IBC transfers from Namada to another chain

To make an outgoing IBC transfer from a Namada transparent address:

namadac

ibc-transfer \ --source

< your-transparent-addres s

 \ --receiver

< address-on-receiving-chai n

 \ --token

< token-addres s

 \ --amount

< amoun t

 --channel-id

< channel-i d

 Note:

- thereceiver
- address is the address on the receiving chain -- if you are sending to another Namada chain, this would start withtnam...
- ,
- while if you're sending to a Cosmos SDK chain it might start withcosmos...
- or some other prefix.
- thechannel-id
- parameter is a string, for examplechannel-27
- .

Example: Sending NAM to the Cosmos Hub

namadac

ibc-transfer \ --source

my-namada-wallet \ --receiver

cosmos1y3q368qj8d2ged5xcdz96wtt3n5f9zq6ql0p7k \ --token

nam \ --amount

10 \ --channel-id

channel-42 Once the transaction has been submitted, a relayer will need to relay the packet to the other chain. This is done automatically by the relayer running Hermes. If the packet is never successfully relayed, the funds are returned to the sender after a timeout. See more information in thespecs(opens in a new tab) .

Transferring assets into Namada from Cosmos SDK chains

To transfer assets back from a Cosmos SDK chain, you will post an IBC transaction on that chain using its corresponding client software.

For the Cosmos Hub, you will use gaiad (opens in a new tab) . Other chains will have their own corresponding client; however all Cosmos SDK based clients will share approximately the same commands and operation. Consult the documentation of the counterparty chain when in doubt.

Example: Sending ATOM from the Cosmos Hub to Namada

gaiad

tx

ibc-transfer

transfer \ transfer \ channel-64 \ tnam1qzgmrvz0zdjtgdu7yq6hl46wdg7za2t2hg5t85c7 \ 10000000 uatom \ --from

my-cosmos-wallet \ --fees

5000 uatom ð¡ The double use of 'transfer' in the above command is not a typo. The command takes an IBC port name as one of its parameters; and the name of the port happens to be 'transfer'.

Shielded IBC Querying the Chain