# #

HTLC

[HTLC module](#) allows you to manage local Hash Time Locked Contracts (HTLCs) for atomic swaps with other chains.

There are the following states involved in the lifecycle of an HTLC:

- open: indicates the HTLC is claimable
- completed: indicates the HTLC has been claimed
- refunded: indicates the HTLC has been refunded

# #

Available Commands

Name Description [create](#) Create an HTLC [claim](#) Claim an opened HTLC [htlc](#) Query details of an HTLC

# #

iris tx htlc create

Create an HTLC

iris tx htlc create\ --to = < recipient> \ --receiver-on-other-chain= < receiver-on-other-chain> \ --sender-on-other-chain= < sender-on-other-chain> \ --amount = < amount> \ --hash-lock= < hash-lock> \ --secret = < secret> \ --timestamp = < timestamp> \ --time-lock= < time-lock> \ --transfer = < true| false> \ --from = mykey Flags:

Name, shorthand Type Required Default Description --to string Yes

Bech32 encoding address to receive coins --receiver-on-other-chain string

The claim receiving address on the other chain --sender-on-other-chain string

The counterparty creator address on the other chain --amount string Yes

Similar to the amount in the original transfer --secret string

The secret for generating the hash lock, generated randomly if omitted --hash-lock string

The sha256 hash generated from secret (and timestamp if provided), generated fromsecret if omitted --time-lock string Yes

The number of blocks to wait before the asset may be returned to --timestamp uint

The timestamp in seconds for generating hash lock if provided --transfer bool

false Whether it is an HTLT transaction

# #

iris tx htlc claim

Claim an opened HTLC

iris tx htlc claim[id] [secret] [flags] --from = mykey

# #

iris query htlc htlc

Query details of an HTLC

iris query htlc htlc< id>

# #

iris query htlc params

Query params of HTLC module

iris query htlc params

iris query htlc supplies

Query supplies of all HTLT assets

iris query htlc supplies

iris query htlc supply

Query supply of an HTLT asset

iris query htlc supply[denom]