Terra Classic Delta-Neutral Strategy (Retired)

This guide is intended for developers who wish to interact with Aperture contracts directly on Avalanche. Regular users are advised to use the official Aperture web app.

Please consult the Deployed Contracts page for contract addresses on various networks.

Open Position

To open a position on Aperture, interact with the Aperture Manager contract on Terra with the ExecuteMsg variantCreatePosition:

Rust JSON ```

Copy

[derive(Serialize,Deserialize,Clone,Debug,PartialEq,JsonSchema)] [serde(rename_all="snake_case")]

pubenumExecuteMsg{ /// Create a new position with the specified strategy. /// Can be called by any Terra address. CreatePosition{ strategy:Strategy, data:Option, assets:Vec, } }

/// The strategy id and chain id can uniquely identify what strategy it is /// and on which chain is it located.

[derive(Serialize,Deserialize,Clone,Debug,PartialEq,JsonSchema)] [serde(rename_all="snake_case")]

```
pubstructStrategy{ pubchain_id:u16, pubstrategy_id:Uint64, }
Copy { "create_position": { "strategy":{ "chain_id":3, "strategy_id":"0" }, "data":"e...", "assets":[ { "info":{ "native_token":{ "denom":"uusd" } },
```

"Key Type Description strategy Strategy Specifies the strategy to use. data Binary Binary representing parameters taken by the specificed strategy, assets Vec<terraswap::asset::Asset

Vector of assets to deposit into the position.

Delta-neutral Strategy (Terra)

"amount":"2000000000" }] } }

Strategy JSON:

Copy { "chain_id":3, "strategy_id":"0" }

...

Note that thechain id value for Terra is3 . Aperture uses the same chain id values as Wormhole .

Parameter (data) format:

The delta-neutral strategy requires a set of parameters of the following JSON format:

Conv / "target min

Copy { "target_min_collateral_ratio":"2.4", "target_max_collateral_ratio":"2.8", "mirror_asset_cw20_addr":"terra1..." }

• must exceed the minimum required collateral ratio for the mAsset by at least the safety margin amount. The safety margin value is configurable by the Delta-neutral Manager contract, currently set at 0.3

target_min_collateral_ratio andtarget_max_collateral_ratio specify the target collateral ratio range with the following requirements:

- For example, if the minimum collateral ratio required for mAAPL is1.5
- · , thentarget min_collateral_ratio
- must be at least1.8
- .
- · Currently the target CR range must be0.4
- wide, i.e. the equalitytarget_min_collateral_ratio + 0.4 = target_max_collateral_ratio
- · must hold.

.

The parameter JSON should be encoded in base-64 and passed as the data field of the Create Position enum variant when opening a position.

Sample position-open

tx:https://terrasco.pe/mainnet/tx/A87F26A7A6137C87E968B02AC20CCB2F1FE2313D42349FAD3F330D3A50CA1AC8

Query Position Ids

To get a list of position ids held by a Terra address, query the Aperture Manager contract with the following request:

...

```
Copy \ \{ \ "get\_terra\_positions\_by\_holder": \{ \ "holder": "terra1..." \ \} \ \}
```

...

Note that all position ids are returned, including active and closed positions.

Query Position Information

You may query the Delta-neutral Manager contract for detailed position information with the following request:

...

•••

Note that you may specify multiple position ids in the positions array. However, most Terra nodes set a low query gas limit so you may receive an out-of-gas error if more than one position id is requested. It is recommended to use Terra Hive for batch query use cases.

Close Position

To open a position on Aperture, interact with the Aperture Manager contract on Terra with the ExecuteMsg variantCreatePosition:

Rust JSON ```

Copy

[derive(Serialize,Deserialize,Clone,Debug,PartialEq,JsonSchema)] [serde(rename_all="snake_case")]

pubenumExecuteMsg{ /// Perform an action on an existing positions held by a Terra address. /// Can only be called by the position holder. ExecuteStrategy{ position_id:Uint128, action:Action, assets:Vec, }, }

[derive(Serialize,Deserialize,Clone,Debug,PartialEq,JsonSchema)] [serde(rename_all="snake_case")]

pubenumAction{ ClosePosition{ recipient:Recipient, }, ... }

[derive(Serialize,Deserialize,Clone,Debug,PartialEq,JsonSchema)] [serde(rename_all="snake_case")]

pubenumRecipient{ TerraChain{ recipient:String, }, ExternalChain{ /// Details to be added prior to Aperture's cross-chain launch. }, }

```
Copy { "execute_strategy": { "position_id":"12345", "action":{ "close_position":{ "recipient":{ "terra_chain":{ "recipient":"terra1..." } } }, "assets":[] } }
```

Must be an empty vector since no deposits are needed for the close-position action. Sample position-close tx:https://terrasco.pe/mainnet/tx/5F437BD5AC9DD6B038D8C1A5B2AEAF4928BE817F5BFE4A82530E5B914354E763

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Was this helpful?

[&]quot;Key Type Description position_id Uint128 Specifies the id of the position to close. The caller must be the position holder. action Action Should specify the Close Position Action variant with the desired recipient (could be the position holder address or any other address). assets Vec<terraswap::asset::Asset