Index

Index uses UMA's optimistic oracle to bring rebalance methodology onchain. The methodology determines whether a re-weighting proposal is valid and also specifies auction parameter values related to rebalancing execution.

Here is an example assertion for Index:

proposalHash:624170ec238408ef83180e50a7be13836a80ffb01c3e9090e32b7dfda37b5662,rules:"I assert that this transaction proposal is valid according to the rules stored on IPFS under hash: QmaQmtteNydU2c6H9MJoKwVaspAsgMYJ44YE9mkNNuJmGL"

The IPFS hash can be appended tohttps://ipfs.io/ipfs/ . So for the example above, https://ipfs.io/ipfs/QmdHftq7GK552HHVoLdU41DTzxSyFhhPnPoEEuySKM7nWK can be used to view the methodology.

Index has provided a reference queryhttps://github.com/IndexCoop/dseth-methodology-reference to make verifying assertions easier.

The first step is to clone the repo by running:

```

Copy git clone https://github.com/IndexCoop/dseth-methodology-reference.git

```

After cloning, create a .env file with the following variables:

```

Copy MAINNET_RPC_URL="https://eth-mainnet.g.alchemy.com/v2/{INFURA_URL}" RATED_API_URL="https://api.rated.network/v0" RATED_API_ACCESS_TOKEN="{RATED_API_TOKEN}" MOCK_RATED_API="false"

```

You can sign up for a Rated API key here: https://www.rated.network/signUp. Once you receive the API key, input it as theRATED_API_ACCESS_TOKEN.

Run the following command once the .env variables are set:

```

Copy yarn calculate-auction-rebalance-params

```

Check the input data of the assertion transaction and compare it against the script output. Here is the assertion transaction for the example above.

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