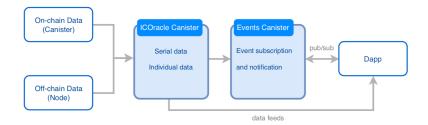
ICOracle.io Oct, 2022



Decentralized oracle protocol on IC blockchain.

ICOracle is a decentralised oracle protocol on the IC blockchain that provides secure and reliable data for Dapps, integrating access to on-chain data, real-world data and off-chain computation while maintaining the inherent decentralised nature of blockchain technology.

How it works



ICOracle receives on-chain data by cross-canister calls, or receives off-chain data by https outcalls (or node pushes) and consensus to form deterministic data. The datasets can be queried by Dapps via interface calls. There is an Events Canister for receiving event subscriptions and sending notifications. Dapps can subscribe to data events and receive notifications when the data meets the conditions. ICOracle nodes need to run programs to complete off-chain calculations and submit result data (when there are computation tasks), and monitor the Events Canister for correct processing of event notifications.

The data stored by ICOracle includes serial data, which is recorded according to the time dimension, e.g. market quote data, and individual data, which is an individual event data, e.g. election results. ICOracle receives data in three ways: (1) On-chain data from cross-canister calls; (2) Off-chain data from https outcalls; (3) Off-chain data from ICOracle nodes.

If ICOracle uses an off-chain data source, it requires multiple data sources to form a consensus in ICOracle Canister, and the average of them is the consensus data if the number of data sources within the valid deviation meets the minimum requirement.

On-chain Dapp (Canister) uses ICOracle data feeds by paying \$OT as a fee. Off-chain Dapp can use ICOracle data feeds with an anonymous account, which is free.

The Dapp subscribes to events that meet certain conditions by paying \$OT as a fee to Events Canister, which notifies the Dapp when a subscribed event occurs.

ICOracle Nodes

Applicants are required to stake OTs to the DAO governance contract, and the first 21 applicants with the largest staked (and no less than 20,000,000 OTs) qualify as nodes. Community users can stake OTs to their trusted node applicants, sharing the mining gains and losses from penalties.

ICOracle Canister will count the valid workload of nodes and the DAO governance contract will share the mining reward pool equally for each period based on the valid workload. If a node involves intentional/unintentional cheating, the staked OTs will be partially deducted.

Node's work:

- Creates a Node Canister to provide data to the ICOracle Canister using https outcalls. The node can also choose to provide data directly by calling the ICOracle Canister interface.
- Runs the off-chain computation program (if there is a computation task) and submits the results to ICOracle Canister.
- Runs the Keeper program, and listens to Events Canister for event notifications and makes off-chain notifications in case of exceptions.

Features

Secure and reliable network

Connect highly accurate and available data to any canister using decentralised, on-chain providers (with off-chain nodes as an aid), quality data and multi-data source consensus.

Seamless connection to any

Build on a flexible framework that can retrieve data from any data sources (canisters, https outcalls, off-chain nodes), and integrate with any on-chain or off-chain data.

Maturing solutions

Many time-tested oracle solutions already exist in the Web3 space, and more will emerge on the IC network to help developers build market-leading decentralised applications.

Highly automation

ICOracle can be implemented almost 100% on-chain with the IC network, mitigating risk of manual interventions and centralized servers. Only in rare cases is it necessary for off-chain nodes to be involved in the work.

Community

Twitter: https://twitter.com/

icoracle_io

Discord: https://discord.com/invite/

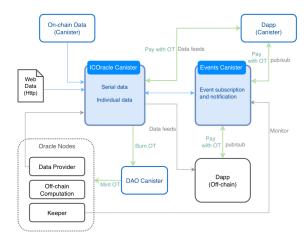
6YXN7dxFQP

Github: https://github.com/eleven-

cat/ICOracle

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Ecosystem



ICOracle Node mine token.

- Applicants are required to stake OTs to the DAO, and the first 21 applicants with the largest staked (and no less than 20,000,000 OTs) qualify as nodes.
- Community users can stake OTs to their trusted node applicants.
- The node's work is mainly to provide data and off-chian calculations to ICOracle Canister, and monitor Events Canister.
- The DAO Canister will share the mining reward pool equally for each period based on the valid workload.

Dapp calls ICOracle data or subscribes to events by paying OTs.

- Canister internal calls to ICOracle Canister require payment of OTs.
- Off-chain applications calling ICOracle Canister with an anonymous account is for free.
- Dapps pay OTs and subscribe to events for ICOracle data to be notified when events occur.

${\bf DAO}$ Canister is used to manage proposals and govern the distribution and destruction of tokens.

- Fees received by the ICOracle Canister are destroyed by the DAO Canister.
- An account needs to stake 500,000 OTs to submit a proposal. If the proposal is not approved, 50% of the staked token will be deducted and destroyed.
- Nodes participate in voting with 100 votes per node; if users want to vote directly themselves, they need to stake at least 2,000,000 OTs to participate in voting with 1 vote per account.

Token

ICOracle token **OT** is the governance and utility token for the ICOracle project.

Canister Id:imeri-bqaaa-aaaai-qnpla-caiSymbol:OTStandard:ICRC1, DIP20, DRC20Decimals:8

Name: ICOracle Token Max Supply: 10,000,000,000 OTs

Distribution:

- 10% (1,000,000,000 OTs) - Team Reserved

It is locked until 0:00 on 1 January 2024 and then released linearly over 2 years.

- 10% (1,000,000,000 OTs) - Community contribution rewards

Quarterly distribution of up to 50,000,000 OTs.

- 30% (3,000,000,000 OTs) - Community airdrops

400,000,000 OTs airdropped to early backers, unlocked at token launch.

100,000,000 OTs airdropped every quarter through community events, and the undistributed portion will be destroyed.

The remaining OTs can be requested for partial destruction through a DAO proposal.

- 10% (1,000,000,000 OTs) - Given to early oracle nodes

Staked in contract for 5 years.

- 20% (2,000,000,000 OTs) - Given to early adopters

Up to 10,000,000 OTs per project.

Quarterly distribution of up to 60,000,000 OTs.

- 20% (2,000,000,000 OTs) - Mined by oracle nodes.

Mining supply of 20,000,000 OTs per month, halved every 4 years.

Roadmap

- October 2022: launch of website and OnePaper doc; open source alpha version of smart contract and interface; issue token \$OT; organization of airdrop events.
- December 2022: launch Beta version of smart contract and interface; organization of airdrop events.
- Q1 2023: launch of v1.0 smart contract and interface, provide crypto market data feeds; launch of staking and ICOracle Node program; organization of airdrop events.
- Q4 2024: launch v2.0 smart contract and interface, provide weather, FX and other data feeds.
- Q2 2025: launch v3.0 smart contract and interface, provide to flight, sports and other data feeds.

Note: The roadmap may be adjusted as appropriate.

Disclaimers

ICOracle protocol is a community-driven decentralised project which is thought to be a community collaboration project, using open technologies and protocols as the backhone of its functionalities.

ICOracle is provided "as is", and utilized at your own risk and responsibility without warranties.

ICOracle token OT is used for governance and utility only and no team of individual guarantees its value.

Therefore before utilizing this service you should review its documentation and codes carefully to fully understand its functioning and the risks that could entail the usage of a service built on open protocols on an autonomous blockchain network (the Internet Commuter)

No individual, entity, developer (internal to the founding team, or from the (COracle community), or (COracle issfelf will be considered liable for any damages or claims related to the usage, interaction, or lack of functioning associated with the (COracle protocols, its interfaces, or websites. This includes loss of profits, assets of any value, or indirect, incidental, direct, special, exemplary, punitive or consequential damages. The same applies to the usage of (COracle through third-party interfaces or applications that integrate/surface it. It is your responsibility to manage the risk of your activities and usage on said platforms/protocols.

Utilizing this project/protocol may not comply with the requirements of certain regional laws. You are requested to comply with local laws and to assume all legal consequences arising from its use.

