

Private and Decentralized Oracle Nodes

Equilibria White Paper

equilibria.network

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INTRODUCTION

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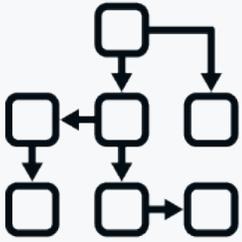
Equilibria is an oracle network designed to strengthen other projects.

We aim to create a decentralized oracle network that other projects can use to strengthen their dApps and for us to build our own dApps. The Equilibria team will build "oracle clusters" - oracle functions that feed data to the blockchain. Over time, we will build a variety of oracle clusters that make it simple and secure to implement Equilibria's decentralized oracle network on any project.

Introduction

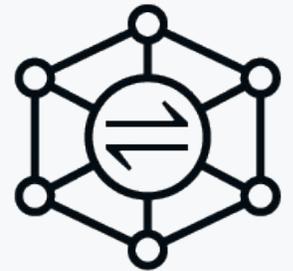
Since the birth of cryptocurrency, decentralization has been the key fundamental aspect that drove its growth. Since then, the blockchain industry has evolved significantly and created an enormous ecosystem of different cryptocurrencies. In 2020, new projects often have unique objectives such as DeFi ecosystems like a stablecoin, or decentralized applications such as a DEX.

For many new projects to build their applications, they must retrieve data from somewhere. Oftentimes, the data being pulled is unreliable, entirely centralized, or the how it is pulled is centralized. These methods have their benefits - they are easy to implement and generally work as needed. However, there are some downfalls to these sources - centralized data feeds can be altered, have downtime, have network issues, or even shut down entirely. If any of these problems were to occur, it could severely damage a blockchain project's network or decentralized app that relies on that data. This can especially hurt a blockchain project due to the difficulty of making rapid changes to the codebase. A solution to this is to pull data in a decentralized manner through nodes that are capable of feeding data (Oracle Nodes). This allows for data to be pulled from any number of sources by every single oracle node on a blockchain network. Utilizing this type of data feed increases the security, reliability, and resilience of an entire network.



Building and implementing an oracle solution can be difficult and hard to implement while focusing on other objectives. An alternative solution would be to utilize a separate network that has already implemented such a system and can create oracle functions for them. It would take little effort from the

project in need of a solution and increases the decentralization and security of the oracle provider. This idea of creating an oracle network designed for other projects is the core focus of Equilibria. To build such an ecosystem would benefit a multitude of projects and creates an opportunity to strengthen the overall cryptocurrency ecosystem.

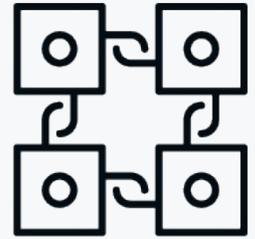


Equilibria will build Oracle Clusters on top of it's Oracle Node network - decentralized apps and oracle functions for projects to pull data. The first oracle cluster ready for production use will be DELFI - a price tracking API that grabs price data from a variety of sources designed for projects such as stablecoins or DEX's. Equilibria also has a dApp planned for late 2020 - an on-chain eSports betting platform that can be used anywhere, anytime.

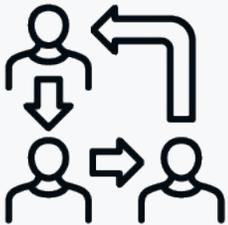
EQUILIBRIA

EQUILIBRIA

Equilibria Oracle Nodes are defined as a community-run node that monitors data and relays it back to the blockchain. For providing this service, oracle node holders receive 50% of the block reward and any other fees generated from the oracle clusters such as DELFI (Asset price tracking) or ili Bet (on-chain eSports betting).



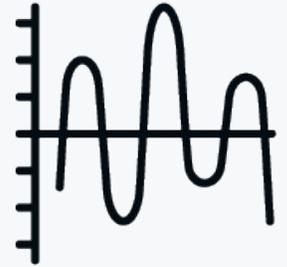
Anyone is allowed to run an Oracle Node by staking/locking XEQ as collateral for ~30 days. Staking ensures that oracle nodes are economically bound to the network, disincentivizing dishonest nodes. The reward also ensures that the Oracle Node network will continue growing and allowing for increased decentralization.



Oracle Nodes are also capable of creating a consensus. All of the nodes on Equilibria's network pull data and eventually decide what data is accurate. To do so, 51% of the Oracle Nodes must agree on the data being pulled. Our first implementation of this will be for DELFI. Price data is pulled from a variety of sources and the Oracle Nodes decide on an accurate resulting price.

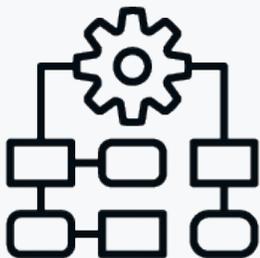
DELFI

DELFI is Equilibria's asset price tracking oracle cluster. The goal is to create a secure decentralized API for assets that any project can utilize to strengthen their own projects. Initially, DELFI will track 1900 cryptocurrencies, 6 metals, and 170 fiat currencies. Later on more assets may be introduced. Fees Generated by DELFI are rewarded to all Oracle Nodes on the network.



The main use-cases for DELFI are:

- Decentralized API for use by anyone.
- Stablecoin projects to further decentralize their network and gather data more reliably.
- Asset management projects such as a DEX where the exchange can consistently pull reliable data.
- The network is rewarded for sidechain usage.



DELFI works by pulling data through each of the oracle nodes running on the Equilibria blockchain. Data is pulled from a large variety of API's for each asset. The nodes then compute that data and combine it to come to a consensus for what the price of each asset is. The data is then stored on the blockchain and anyone can access it directly or through the DELFI interface.

ili Bet

eSports betting has always had a questionable reputation due to a large number of scams and rigged matches throughout its history. Gaming has grown exponentially over the last 20 years and it made a lot of sense that betting for eSports spurred interest just as it did for regular sports. Despite the rough start, eSports betting is growing faster and faster each year and is forecasted to become a near \$20B industry by the end of 2020. Equilibria aims to enter this growing industry with one promise - undeniable transparency and trust.

ili Bet is an esports betting platform that will be built directly into the Equilibria blockchain. ili allows for private, untraceable, and secure eSports betting that will be accessible anywhere, anytime. Due to the nature of blockchain and equilibria, ili will add transparency to the eSports betting scene —



something the space has needed for years. Building the betting system directly into the blockchain comes with some major benefits such as the ability to create more customized ways of betting. An



example of this will be our Discord betting bot that allows anyone to make a bet through Discord - a large messaging platform that was initially designed for gamers. This creates an opportunity for bets to be made on any discord server full of gamers. This idea can be expanded upon and brought to any website, app, or desktop platform.

ili Bet

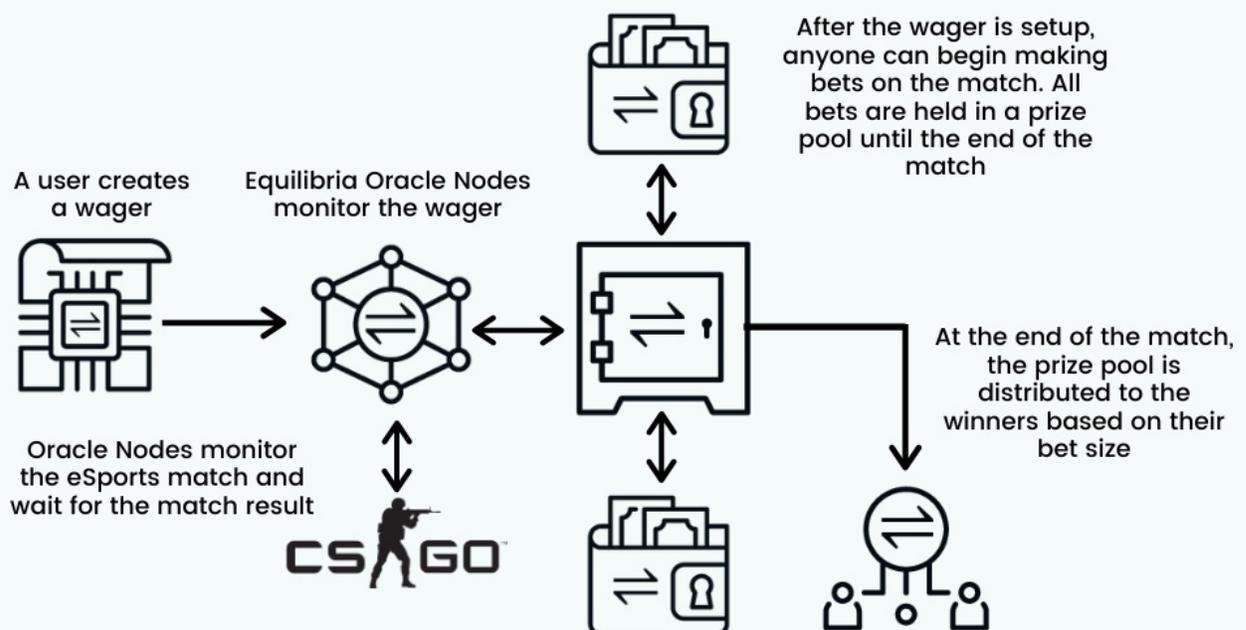
Features:

- Highly secure - all wagers are managed by Equilibria Oracle Nodes.
- Betting is done with XEQ - a private, untraceable, and fungible cryptocurrency based on Monero.
- Events can't be rigged and are validated by Oracle Nodes.
- Middle-man fees are almost zero thanks to blockchain technology.
- Access to betting is only limited to an internet connection. Betting can be done through Equilibria wallets, a website, a desktop platform, a mobile app, or any custom platform (Custom desktop app, any website, any app, or platforms such as discord).

How it Works:

A user can create a wager for an eSport match by paying a tiny fee. This person does not speculate on who wins or loses, they only create the wager. In return for opening up a wager, they will receive a small percent of the wage pool at the end of the match. Anyone can see this match and make a bet.

Once the match is complete, the winners will have their winnings sent to their wallet. The entire system is managed through the Equilibria chain. Oracle Nodes are then rewarded a small % of the wage pool for managing the wager.



GROWTH STRATEGY

OVERVIEW

Overview

Equilibria's foundation allows for expansion in many different directions. Projects that can be integrated and built on the blockchain can range from DeFi to decentralized applications like ili Bet. There will be many opportunities in the future for new oracle clusters to be added to the blockchain, or to have other projects utilize Equilibria Oracle Node for a unique use-case.

The majority of marketing for Equilibria will be done around its Oracle Clusters aside from utilizing social media, discord/telegram communities, and direct interactions between Equilibria and other projects. This paper briefly goes over our plans for the two oracle clusters.

DELFI

DELFI is an asset price tracking oracle cluster designed for other projects to utilize to further strengthen their blockchain networks. We will primarily use outreach and the Equilibria community to kick-off DELFI. Initially, we will be looking for stablecoin projects that need a better solution for gathering their price data.

After some initial traction is gained for DELFI, we will then look to expand our horizons into other asset derivative and DEX projects. Around the same time, we will be adding an interface for DELFI to allow for easy use and accessibility so anyone can easily implement DELFI into any project they are working on. The end-goal for DELFI is to make it easy for any person or project to start using its decentralized pricing data for crypto, metal, and fiat currency.

Through each "partner", we will look to cross-promote and collaborate to benefit both projects. We have no plans to advertise DELFI directly but to utilize WoM, community, and project to project relationships.

ili Bet

Ili Bet

Ili Bet aims to become a major competitor in the online eSports betting scene. It will allow anyone from any location to start wagers and make bets on any eSports event. A large number of current bettors are already involved with crypto as Bitcoin is a major on-ramp for many of the top betting sites. We plan to remove all centralization from betting and build the entire system on the Equilibria blockchain.

Our primary metric is to increase the amount of volume of eSports bets made each day and to increase the number of users making bets. Initially, you will only be able to make bets through the wallets, but our first objective will be to create a discord bot that is easily accessible.

The discord bot will be a great driver for bringing in new users due to Discords large gamer demographic. This bot can be used on any discord server so it has the opportunity to face a large number of gamers. We can then work with the server owners to help push users to try it out. This will become the first discord eSports betting bot. We will accompany this with an eSports data bot that will be able to feed any discord server with information on all of the eSports games that ili Bet can create wagers on.

After the release of the discord bot, we will start working on other platforms for ili Bet. A website, mobile app, and desktop platform will be created. The desktop application will be open source, but the website and mobile app will have to be centralized. During this phase, we will also be implementing an inbound and outbound marketing strategy for bringing in more users.

Equilibria

Equilibria

By marketing our two oracle clusters, we believe that Equilibria will grow in a correlation with those oracle clusters and become stronger for every new user or partnership formed. As we make further development progress, we will focus heavily on PR, community, and business development to bring more attention to Equilibria as a whole. Bringing more cryptocurrency miners and investors will help make the network stronger and grow the Oracle Node network. As Equilibria grows, all of the projects and applications utilizing the Oracle network also grow.

ROADMAP

ROADMAP

Q3 2020

Rebase:

Update to Monero v16

DELFI v1:

Price tracking for 1900 cryptos, 6 metals, and 170 fiat currencies

Mobile Wallets:

Equilibria Mobile wallets for both Android and iOS

DELFI Website:

Easy access to DELFI

ili Bet Testnet:

CLI functionality for testing ili Bet - on-chain eSports betting

Q4 2020

ili Bet Mainnet:

Fully functioning ili bet.

ili Bet Discord bot:

A discord bot for making eSports bets on any Discord server.

ili Bet Open Source Desktop Platform:

An open-source ili bet platform that any can use to make bets.

Q1 2021

ili Bet Telegram Bot:

A telegram bot for making bets, similar to the Discord bot.

ili Bet Website:

A centralized option for access to ili Bet if a desktop platform or discord isn't suitable.

ili Bet Mobile App:

A mobile app for ili bet on Android and iOS will be released if desktop or Discord is not suitable.

Info

FAQ

Q: How old is Equilibria?

A: 2 years old.

Q: How many oracle clusters are planned?

A: Currently there are two (DELFI and ili Bet), but we have more planned for the future once the current objectives are met.

Q: Who is working on the project?

A: As of right now there, two members developing the project - Thomas and Harrison. Due to the small team size, both team members tend to wear many hats:

Harrison's primary role is developing the Equilibria blockchain and integrating it's oracle clusters. Thomas' primary role is front-end development and marketing Equilibria.

Q: How can I contact the team?

A: You can contact us through one of our community channels (Discord or Telegram) or directly by email. All of the links are in the next section of this paper.

Q: What is an Oracle Cluster?

A: An Oracle Cluster is an oracle function built on Equilibria's Oracle Node Network.

Q: How can I start an Oracle Node?

A: A tutorial can be found on our wiki:

<https://github.com/EquilibriaCC/Equilibria/wiki/How-to-Setup-an-Equilibria-Service-Node>.

You can go also visit the explorer to see the current cost of a node and how many are currently running on the network:

<https://explorer.equilibria.network/>

TECHNICAL INFO

Technical Details

- Block time: 180
- Difficulty Algorithm: LWMA v3
- Max Supply: 84,000,000
- Algorithm: CN-GPU
- Port: 9231
- p2p Port: 9230

Emission

Equilibria's current emission schedule is static - 17 XEQ will be emitted each block and split between miners and oracle node holders.

Premine

Equilibria originally had a 3M XEQ premine when the project first began in 2018. After the team came back and shifting to the focus on Oracle Nodes, it was decided that a new premine would be set to help support the project during the early stages of development. 7M distributed over 7 months will be issued for the development of Equilibria and it's Oracle clusters in addition to Marketing the project.

RESOURCES

Website:

<https://equilibria.network>

Explorer:

<https://explorer.equilibria.network>

Github:

<https://github.com/EquilibriaCC/Equilibria/>

Wiki:

<https://github.com/EquilibriaCC/Equilibria/wiki>

Wallet:

<https://github.com/EquilibriaCC/Equilibria/releases>

Discord:

<https://discord.gg/pDyfUTs>

Twitter:

<https://twitter.com/EquilibriaCC>

Telegram:

<https://t.me/EquilibriaNetwork>

Bitcointalk:

<https://bitcointalk.org/index.php?topic=5170891.0>

Exchanges:

TradeOgre: <https://tradeogre.com/exchange/BTC-XEQ>

Contact:

contact@equilibria.network

Harrison: harrison@equilibria.network

Thomas: thomas@equilibria.network