EMERALD

LEDGER TECHNOLOGIES

White Paper

Disclaimer

The Emerald cryptoasset is created for use within the Emerald Ledger Technologies product ecosystem. It is the sole responsibility of the user to be familiar with ALL laws associated with cryptoassets within their respective jurisdiction before exchanging. The Emerald cryptoasset described within this white paper does not constitute any investment, financial or trading advice and you should not treat any of the white paper's content as such. We recommend each individual conduct their own due diligence and consult a financial professional before purchasing the emerald cryptoasset.

Introduction

Emerald Ledger Technologies is a decentralized autonomous corporation focused on creating platforms for financial confidence and security, generating value through the emerald cryptoasset through zero-fee trading on the Emerald Ledger decentralized exchange, access to private Real Estate Initial Dex Offerings (IDOs), and peer-to-peer social transfer through the Jayde Connect wallet.

Table of Contents

Market Origination
Product Delivery
- Emerald Ledger
  - Decentralized Currency Offerings
  - Architecture
  - Platforms
  - User Interface
- Jayde Connect
  - Market Category
  - Banking Interface
  - Social Interface
  - User Interface
- Emerald IDOs
  - Startups
  - Real Estate

Team
- Company Structure
- Custodian Bids

Token Economics

Market Origination

Current cryptocurrency exchanges and clients suffer from the following problems:

- Security
- Fees
- Performance
- Confidence

Security

Hundreds of exchanges are hosted on centralized platforms. Centralized exchanges hold user assets on server wallets, making billions of user funds vulnerable in the case of access by a dishonest actor. When a server becomes accessible by a dishonest actor by means of hacking, millions of user funds per exchange are compromised, and in the case of security measures by these centralized exchanges, user funds remain frozen.

On May 7th, 7,000 Bitcoin worth USD 40 million was hacked from Binance. During the hack, all customer funds were frozen, rendering the funds of all Binance's users, which is currently more than the entire population of Hong Kong, useless for the period of one week.

On Emerald Ledger, funds are never held by the exchange itself due to the decentralized nature of the ledger. Even in a case where the exchange servers would get hacked, user funds will never get touched as the exchange does not touch private keys. Funds will never be frozen, as each user will fully own their wallet.

Fees

Centralized exchanges currently charge transaction fees of some kind. Be it with deposit, withdrawal, or trading fees. Centralized exchanges use transactions held by the exchange via IOUs up until the moment of withdrawal when mining requires transaction fees. On decentralized exchanges based on Ethereum, transaction fees for trading are determined by gas fees of peer-to-peer transactions as part of any blockchain architecture requiring transaction

fees for payment to miners. While these fees may not be considered to a new investor in cryptoassets, significant quantities of capital are lost to these traders on the order of billions today.

Emerald Ledger uses an EOSIO smart contract and hence charges no fees for deposit, withdrawal, or trading. The ledger matches off chain and deals on chain. This allows a completely transparent and trustworthy system for verifying all transactions in real time.

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Performance

Popularized centralized exchanges are optimized for speed. However, decentralized exchanges currently exhibit performance issues. Decentralized exchanges running on Ethereum, such as EtherDelta, resulting in slow trading liquidity for users.

Emerald Ledger, by being a decentralized exchange built on EOS.IO infrastructure results in fast, seamless peer-to-peer trading via our platform using our EOS smart contract as the peer-to-peer trade dispatcher. Trades on Ethereum vary nearly 10 minutes due to processing approximately 15 transactions per second, however, EOS has a tested throughput of at least 250 transactions per second (https://www.whiteblock.io/library/eos-test-report.pdf), if not thousands as reported by EOS Network Monitor.

Confidence

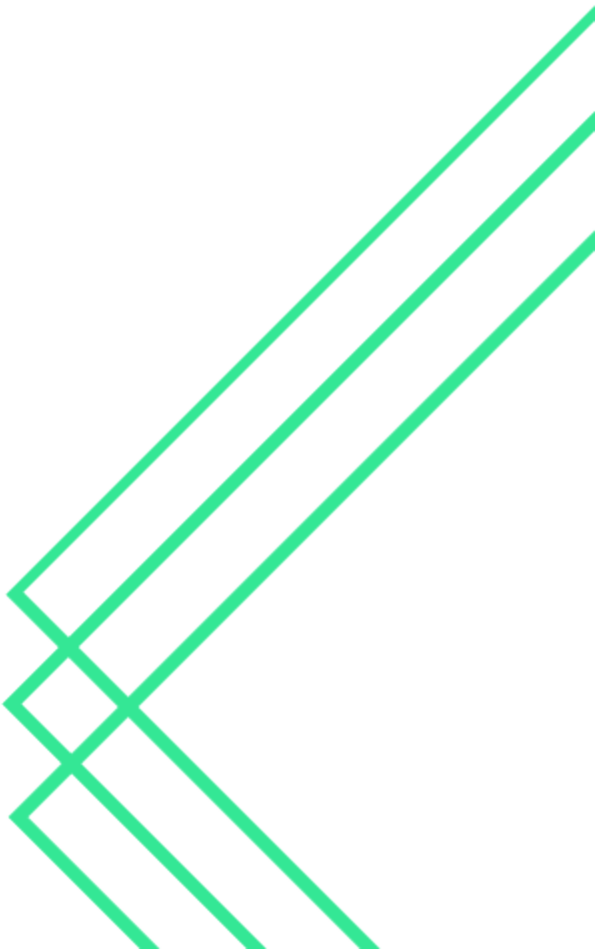
Cryptocurrency trading may be the first introduction to asset trading for new users. Due to an early introduction, without previous experience in Forex, new trading prospects may experience a lack of confidence due to fear of losing capital because of a lack of understanding. Educational platforms can teach liquidators until they learn through imitation.

Emerald Ledger will introduce public user profiles displayed on a public user feed featuring top traders with the most positive return on investment history. These profiles will serve as a model for new traders, providing a reference for inexperienced traders, teaching them successful trading concepts by example. Users desiring recognition for their trades can choose to display their trading profiles publicly, with the option of accumulating a followers base. The Emerald educational platform for new investors will be based on the evidence of successful investments, increasing the confidence for each trader to take advantage of lucrative financial opportunities.

Risk Mitigation

Current cryptoassets exhibiting high demand model high levels of volatility. Current solutions for volatility in the form of stable coins for current offerings bear confusion over credibility. Tether's current solution operates on centralized IOU issuance. These tokens require trust in the issuing party legitimately holding the assets being represented, and that they are willing to honor the IOUs, putting users at risk. Collateral based stable coins generates stablecoin via a smart contract by locking cryptocurrency in excess of the current market rate of the issued stablecoin. If the value of the collateral drops acutely, the stablecoins become undercollateralized.

Emerald Ledger introduces the TOSHI stable coin, a market based stable coin satisfying the three Ayllon stable coin criteria. More details on TOSHI can be read on the TOSHI technical sheet (https://emeraldledgertechnologies.com/pdf/-toshi-tech-sheet.pdf).



Product Delivery

Emerald Ledger

Emerald Ledger is the world's first decentralized exchange offering users the ability to transact EOS and Ethereum based decentralized cryptoassets with zero transaction fees. The Emerald Ledger user interface is hosted on the InterPlanetary File System protocol (IPFS). The IPFS protocol will provide peer-to-peer distribution of the decentralized exchange interface, making Emerald Ledger the first genuine decentralized application. The seed servers are located within the most reputable, secure and stable Asian city, Singapore. The recent Binance hack has proved the need for a decentralized exchange where the user is able to interface with the exchange without revealing their private keys to the exchange. The decentralized nature of the application will allow teams to create and add tokens straight to the dex from a form input. Once added, the cryptoassets will be open for trading immediately. No need to await for a centralized team's approval to process teams' request nor a waiting period between application and listing. Teams will be able to create fully liquid trading pairs against the Emerald token and EOS redeem within 2.1 seconds.

Decentralized Currency Offerings

Emerald Ledger currently supports the following decentralized currencies as trading pairs:

- EOS
- TOSHI
- Emerald

Due to the decentralized nature of the exchange, all funds are owned by each user through their own private keys, meaning trades are made among users through the exchange and exchange smart contract serving as the intermediary.

Architecture

January testing revealed that EOSIO version 1.6.0 improved transaction speeds on the network by 35%. This improvement brought 3,996 transactions per second, the highest of any public blockchain network, showcasing the 6th top cryptocurrency by market value, strengthening EOS as the top cryptocurrency by decentralization and valuation in the world today. EOSIO introduces reduced CPU costs, decreased network latency, and lowered costs to applications relative to competing blockchains. The EOSIO blockchain is the only viable solution to host permissionless public transactions at scale via a representative democracy whereby elected block producers by the eos token holders determine network performance updates by voting through its staking mechanism.

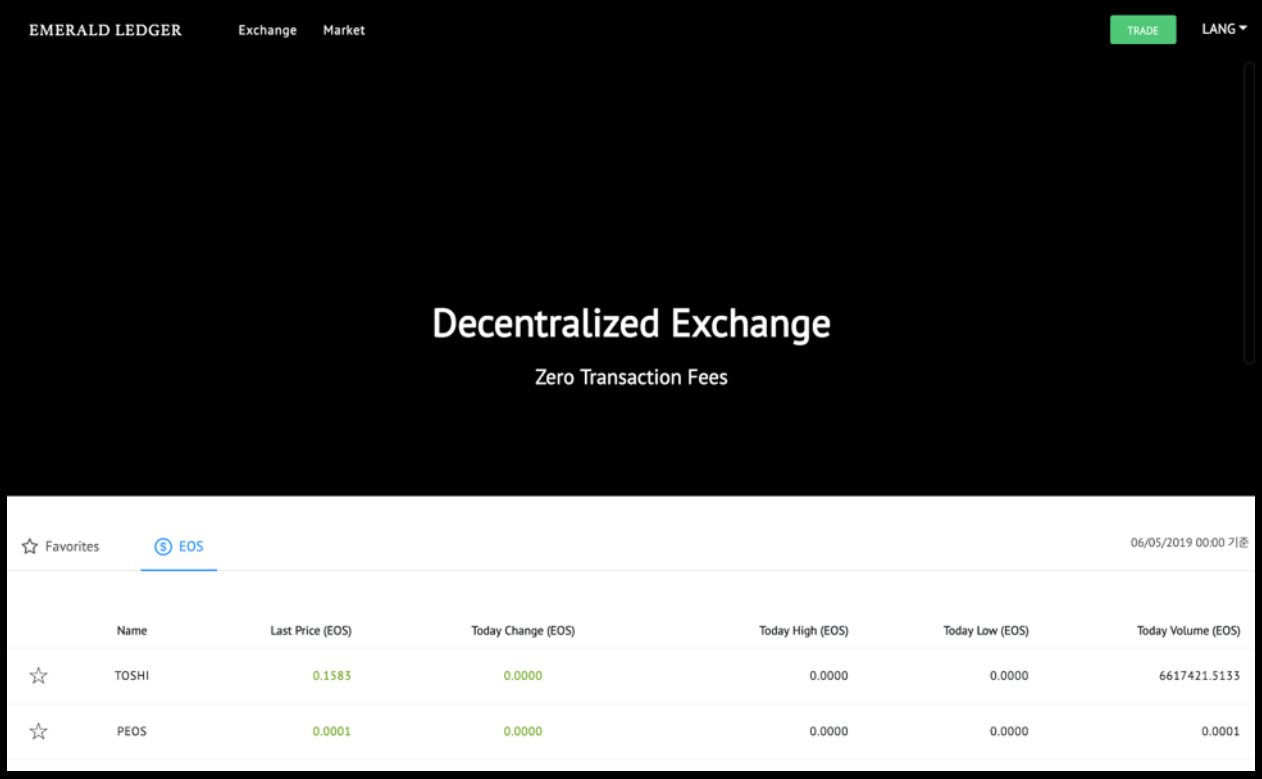
Platforms

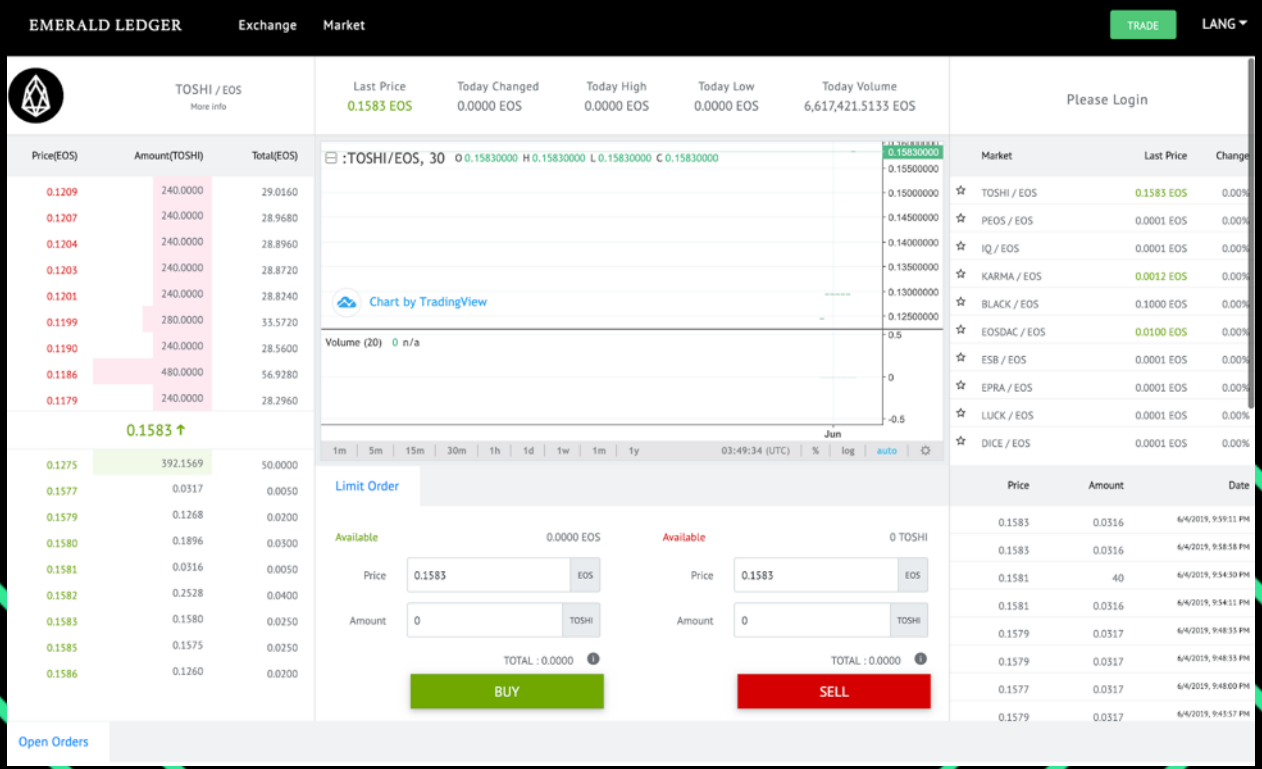
Emerald Ledger will be released as a web client initially to provide the maximum initial range of cross-platform support. Thereafter, native clients for the following platforms will be added:

- iOS
- Android
- MacOS
- Windows

User Interface

The web client is live at emeraldledger.com and can be accessed currently via Scatter wallet.





Jayde Connect

Market Category

Jayde Connect, a peer-to-peer social banking solution, primarily functions as an EOS signature provider supporting the Emerald Ledger decentralized exchange. Jayde Connect's programming confirms security of user's private keys while simultaneously serving as a platform for a new market category described as "Social Banking". EOS signature providers both enable the storage of decentralized currencies, similar to an Ethereum or Bitcoin wallet, and allow users to seamlessly interface with decentralized applications. The Jayde Connect wallet/authenticator replaces the need for account creation on the Emerald Ledger platform. Users will be equipped to sign into the Emerald Ledger exchange using the Jayde Connect signature provider, providing convenience of use for all users.

Security

All transactions conducted by users on the exchange will remain confidential between the user owned wallets. No funds will be held by the exchange. Therefore, if a situation were to arise in which the server holding the Emerald Ledger user interface were to be breached by a hacker, no user funds would be accessible. All Emerald Ledger funds are owned by the individual user segregated outside of the exchange in the Jayde Connect wallet.

Emerald Ledger Technologies will hold no access to individual private keys. Private key access is the primary target for hackers in theft. If hackers are successful in acquiring access to a user's private key, they acquire access to all funds held within that private key. Solutions that present a single point of failure put forward a threat to any person holding decentralized currencies online. In a solution where the private key is held within a server, if a hacker successfully penetrates that server's security, every private key and all user owned funds may be compromised. In the case where private keys are stored in local storage, be it a phone's local storage, the local storage of a desktop app, or the local storage of a web app, a hacker who acquires access to a user's RAM

will be able to read a user's private key.

To combat security threats to a users private keys, Jayde Connect will utilize the ELT Private Key sharding feature known as Jayde Vault. Jayde Vault is a sharding fail-safe feature in which the user's private key storage will be distributed, as to prevent a single point of failure. Jayde Vault is designed to combat Spectre, a vulnerability affecting modern microprocessors such as ARM, Intel, and AMD chips whereby a user's memory can be accessed by ill intentioned parties. Upon storing a private key in Jayde Connect, a piece of the user's private key will be held in local storage, the other piece held in a server, and users will be offered an option for the user to store another piece in a trusted friend's device, all encrypted with the decryption keys held within other devices.

In the event of stolen funds by a user's private key mismanagement, block producers can reverse stolen funds by a formal ECAF system. The reversible nature of the EOSIO blockchain will allow users to recover their stolen funds if an ill intentioned party gains access to of the private keys. At least 15/21 (2/3+1 of elected block producers) of the EOS block producers must agree before a thief's stolen funds are authorized to be reversed.

Banking Interface

Jayde Connect serves as a social banking platform. With decentralized currencies, user funds can be stored safely online through ownership of a private key. Several decentralized currency wallet solutions exist through the purpose of storing user funds and allowing peer-to-peer transactions. While the finance utility of storage and transaction exist through several decentralized currency wallets, other financial functions offered by banks are not broadly offered through these decentralized currency wallets. In order for a user to see their own ledger of transactions, a user seeks external resources, such as bloks.io, or etherscan.io. Jayde Connect will show a ledger of all transactions in addition to sending and receiving funds, simulating an online banking experience with decentralized currencies.

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Social Interface

Transactions are social in nature. A transaction is a transfer of value for value between one peer to another. These transactions can be rooted in a source of connection through peers. Through the course of a relationship, such as a business relationship between peers in a business engagement, a relationship between friends, or a relationship between partners, each relationship is marked through a reciprocation of giving and receiving. Platforms such as Venmo in the United States exist to fulfill the social need within centralized currencies financial transactions. However, no such platform exists filling this need for online decentralized currencies.

Jayde Connect will fill the need of social transactions, serving the social part of social banking, by allowing conversation threads per transaction between peers. Similar to how the platform Reddit allows conversation threads to originate from a post on their platform, conversation threads between peers are initiated from a transaction between peers. EOS currently offers memos to be sent through their eosio.token standard. Jayde Connect will expand on a memo to a full conversation thread between peers, providing social value to users.

For transactions between peers to be seamless, each decentralized currency account will be a unique social profile for that user. To ensure privacy and anonymity, a user may provide as much information as they desire. A user then can link with another account similar to how connections are formed on LinkedIn or Facebook. A user can then send transactions to these accounts by searching their social links, without trading public keys.

Moving forward, each iteration improving on the Jayde Connect application will increase value in those categories; banking, finance, and social. Future solutions on the Jayde Connect platform will include financial reports, or advanced communication technologies. (to increase privacy and reduce costs, offchain private permissioned messages between friends but with on chain hash)

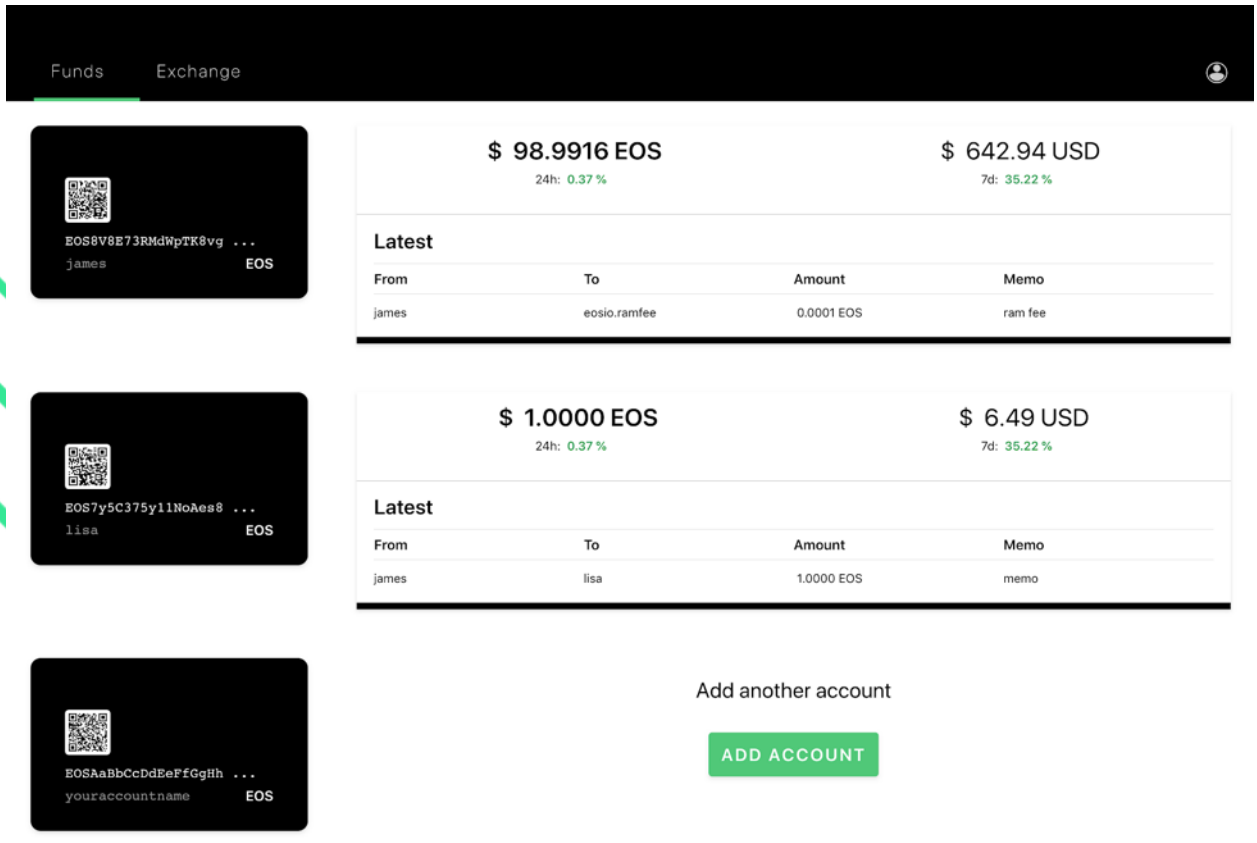
Platforms

Jayde Connect will be available on the following platforms on release.
- Desktop (Windows/Mac OS/Linux)
- iOS
- Android

Relative release dates will vary on verification and publication policies for each platform's respective market (ie. iOS App Store and Google Play Store).

User Interface

Jayde Connect is currently in Alpha. The following are screenshots of the current build.



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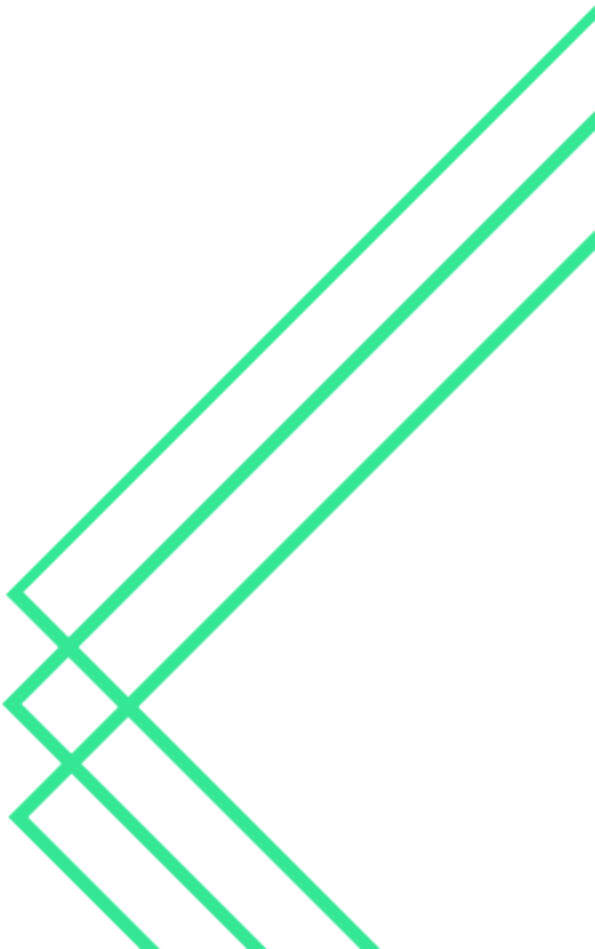


Funds Exchange

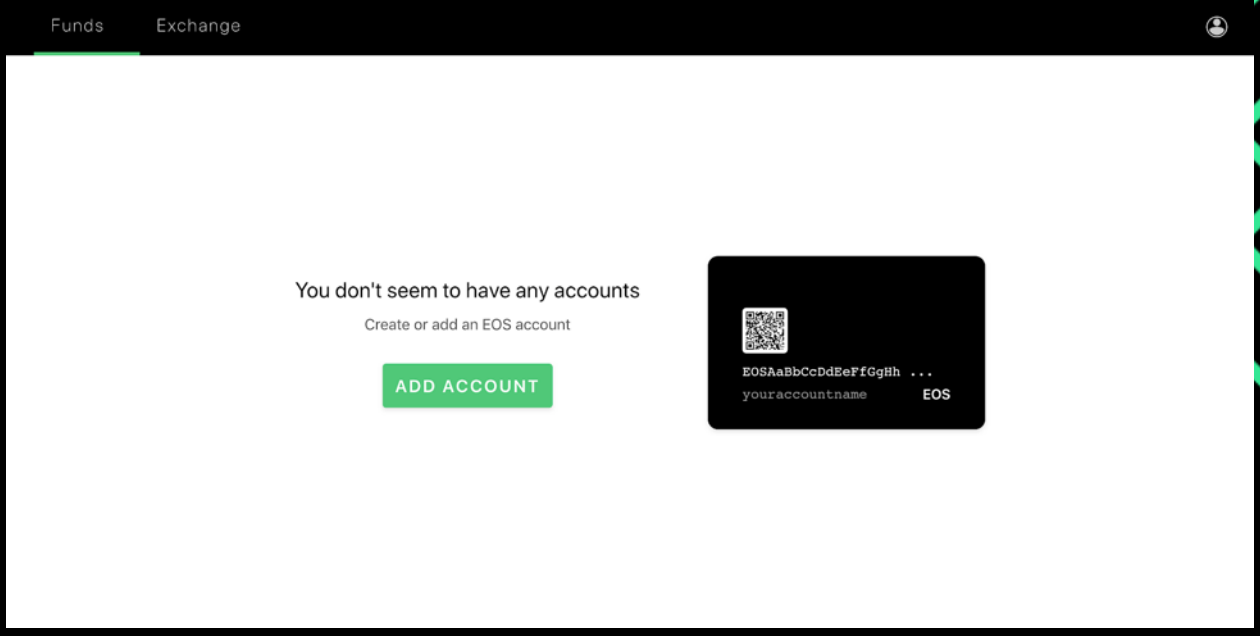
EOS8V8E73RMdWpTK8vg ...
james EOS

$ 98.9916 EOS
24h: -0.84 %

$ 641.12 USD
7d: 34.73 %

Transactions

From	To	Amount	Memo
james	eosio.ramfee	0.0001 EOS	ram fee
james	eosio.stake	0.0002 EOS	stake bandwidth
james	eosio.stake	0.0002 EOS	stake bandwidth
james	eosio.stake	0.0002 EOS	stake bandwidth
james	eosio.ram	0.0012 EOS	buy ram
james	eosio.ram	0.0012 EOS	buy ram
james	eosio.ram	0.0012 EOS	buy ram
james	eosio.ramfee	0.0001 EOS	ram fee
james	eosio.ramfee	0.0001 EOS	ram fee
james	eosio.ramfee	0.0001 EOS	ram fee
james	eosio.stake	0.0002 EOS	stake bandwidth
james	eosio.stake	0.0002 EOS	stake bandwidth
james	eosio.stake	0.0002 EOS	stake bandwidth
james	lisa	1.0000 EOS	memo
james	lisa	1.0000 EOS	memo
james	lisa	1.0000 EOS	memo



Emerald IDOs

Emerald will provision various IDOs (initial dex offerings) for startups and real estate ATOs (asset token offerings)

Startups

Currently, IDOs and their private sales are still run on Ethereum. EOS can serve as a more modern distributed ledger for crowdfunding, especially with regards to IDOs due to:

1. Free transactions
2. Protection from denial-of-service attacks
3. Removal of placeholder tokens (apps can run directly on the EOS network)

In the future, these reasons alone present a more efficient method for launching IDOs on the EOS network as opposed to the Ethereum network.

Free transactions

Potential investors already have plenty of work in research before investing and should not have to worry about transaction fees. Investors already conduct due diligence to identify potentially valuable opportunities, judge the state of the markets, sift through dealflow, and are continuously focused on evolving their portfolio strategies. There is no reason that they should also have to worry about if they include enough funds for miner fees during crowdsales. Too often do investors miss out on lucrative opportunities simply because they may have missed a few decimals for transaction fees during time sensitive investing windows.

With EOS, a startup that wants to hold an IDO can simply host a token contract on EOS, and be entitled to a certain proportion of bandwidth, RAM (storage), and CPU on the EOS network. With that bandwidth in hand, that startup company will never have to worry about any fees on the EOS network at all. They can design truly innovative IDO models, and IDO participants will never have to worry about paying fees to invest. In addition, because of the robust, reliable block production thanks to the delegated proof-of-stake consensus mechanism, IDO participants also have to worry much less about the timing of their transaction and whether or not it will be included in a certain block.

Compare and contrast these features to recent IDOs on the Ethereum network and the ICO boom of 2018. There are several very well-known examples of recent IDOs where willing investors could not participate because of the fee structure surrounding the block production on Ethereum. When the Ethereum network becomes overloaded with transactions, only very wealthy investors (whales) can afford sufficient transaction fees to ensure that their IDO contributions are accepted, sometimes reaching $6,000 [1]. With EOS, transactions fees will never be an issue allowing startups to form innovative distributions back to investors in the form of micro-payments.

Protection from denial-of-service attacks

The sheer network capacity of the EOS network exceeds that of Ethereum by several orders of magnitude. That makes it much more difficult to execute and sustain a denial-of-service attack against the network. Because all applications, including IDOs, essentially have access to the same network bandwidth on Ethereum (subject to a dynamic fee market), if a denial-of-service attack is executed against a single application, it can effectively freeze the entire Ethereum network. In fact, it's not even required to have a malicious attack in order to freeze the network. Several perfectly legitimate IDOs have simply gathered so much interest, that those applications effectively bottle-necked Ethereum and froze out other applications.

However, on EOS, this is not a risk factor. In fact, multiple competing IDOs can launch simultaneously on the EOS network without any risk of impacting each other's network bandwidth. Individual IDOs will never suffer bandwidth bottlenecks due to the dynamic bandwidth feature available through Emerald Ledger. Startups will have peace of mind knowing they will never have to overpay for bandwidth since they will be paying just enough for the IDO to accept all participants. This is the most efficient method for bandwidth crowdfunding while providing a no-cost, reliable, and guaranteed-access IDO investing opportunity to all investors based on FCFS (first come first serve).

Removal of placeholder coins (apps can run directly on the EOS network)

EOS network eliminates the need for placeholder ICO tokens. Many startups crowdfund on Ethereum while never actually intending to develop a use case for their ERC-20 tokens on the Ethereum network. This results in startups developing what is known as placeholder tokens simply for use as speculative store of value assets. In the past, startups chose to run ICOs/IDOs on Ethereum to ensure a fair, auditable distribution of tokens, while never actually using the Ethereum network to run their application/business.

However, EOS is powerful, reliable, and scalable enough to handle crowdfunding AND application of token. Token-holders never have to worry about the network freezing from denial of service attacks or failed applications (i.e. the DAO), and they never have to worry about a dynamic fee pricing structure putting them out of business. The startups providing token use-cases never have to bow down to mining cartels or politics.

Startups can finally cater directly to their investors, right on the platform where their tokens are used, without having to worry any miner transaction fees for the first time in the history of DLT.

Real Estate

Emerald Ledger will allow the formation of IDOs and provide its own real estate IDOs beginning with Project Hampton in July 2019. Emerald Real Estate properties will provide daily dividend payouts and only be available through the Emerald cryptoasset. Each real estate property will be associated with its own cryptoasset, fully tradeable on the zero-trading fee Emerald Ledger dex.

The shareholding agreement for every Emerald real estate property will exist as a private placement memorandum (PPM) smart contract. It will outline sponsor and investors compensation, fee structures, preferred returns and how the rental income and appreciation will be distributed amongst the DAC members.

Unlike current syndication deals, investing in an Emerald real estate deals allows Emerald token holders the flexibility to sell their emerald cryptoassets at any time combining the benefits of investing in the stock market with the strength of owning real estate.

The Emerald real estate cryptoassets will encapsulate both the dividend generation and the equity value of each syndicated property.

To enter Real Estate opportunities offered by Emerald Ledger Technologies, investors must hold Emerald tokens, as they are what will be taken for funding.

The Team

Company Structure

Emerald Ledger Technologies (ELT) operates as a decentralized aūtonomous corporation (DAC). To operate in congruence with decentralization, ELT will have no Chief Executive Officer (CEO), or President. Any chief executive decision will be decided on consensys of the ELT executive board whose members are voted in by Emerald token holders. This decentralized structure mitigates decisions of any single person who may not have the best interests of the company and its stakeholders. Token holders who have more at stake will have more voting power.

Five initial custodians operate in the ELT executive board by way of vote in. Custodians within the Emerald executive board represent 60% of voting power for each executive decision. The remaining voting power resides with Emerald token holders as stakeholders. The ELT DAC decentralizes company decision making by requiring at least a 15%

Custodian Bids

The following include the current custodian candidates for the ELT executive board:

- Chief Strategic Officer
- Chief Technical Officer
- Chief Marketing Officer

Edson Ayllon

Mr. Ayllon has lead name image branding for Emerald Ledger Technologies, set in place group strategy in executive meetings for formulation company mission and values leading ELT products and company direction for entering the decentralized autonomous corporation model.

Ayllon has led the product design of Jayde Connect, collaborating with Zane Sheikh to maximize user perspective value. Ayllon's specialization is analyzing targeted value from the perspective of individual prospective consumer markets. Ayllon considers market environment, composed of consumer interest points leading to cash flow, and competitive entities composing a competitive marketplace. Competitive saturation is considered for each product category before its design and development, ensuring optimal market position for each new product and product category for ELT. Such consideration was the case for Jayde Connect.

Previous experience for Ayllon include brand positioning for angel investing firm Azure Black, in addition to lead product designer/developer for Swan by Azure Black. With passion experience for programming, Ayllon learned EOS as an infrastructure and developed a usable Alpha for the Jayde Connect product in under three weeks, following his leadership in the product design section of the project.

Content Ayllon has added to the field of business strategy, product development and design can be found in his medium profile, https://medium.com/@edsonayllon. Ayllon's public programming works can be found on his github, https://github.com/eayllon1.

John Worthley

Mr. Worthley has worked in the category of distributed ledger technology, emphasizing performance, server and user security within the realm of financial technology. Worthley's natural leadership abilities facilitate timely and consumer valuable releases of industry products. Worthley has led a team of developers for the launch of Azure Black's Swan mobile app for Angel DLT Investors. Previously, Worthley pioneered valve fault analysis through OPC server architecture at the Pennsylvania State University's Applied Research Lab, saving the United States Navy upwards of $40 million dollars in research costs.

Zane Sheikh

Mr. Sheikh graduated as top of his class in Schulich Business School (BBA). Mr. Sheikh has served as a financial analyst with the Royal Bank of Canada, a Canadian multinational financial services company and the largest bank in Canada by market capitalization. Mr. Sheikh team serves over 16 million clients represented over 80,000 employees worldwide. The bank was founded in 1864 in Halifax, Nova Scotia, while its corporate headquarters are located in Montreal, Quebec, and in Toronto, Ontario. RBC is part of the Financial Stability Board's list of global systemically important banks.

In Canada, Mr. Sheikh helped service over ten million RBC clients through its network of 1,209 branches. RBC Bank is the U.S. banking subsidiary which formerly operated 439 branches across six states in the Southeastern United States, but now only offers cross-border banking services to Canadian travellers and expats. In addition to its Canadian services, Mr. Sheikh helped establish 127 RBC branches across seventeen countries in the Caribbean, which serve more than 16 million clients.Through his innovative client acquisition strategies, Mr. Sheikh was able to help generate the largest Canadian revenue quarters, landing RBC at No. 50 in the 2017 Forbes Global 2000 listing. Mr. Sheikh's contributions enabled RBC to be the #1 company in terms of operations in Canada, proving to be the only company to process over US$673.2 billion of assets in yearly management.

Token Economics

Token Utility

Token holders will participate in DAC executive actions based on their respective Emerald token stake. The sum of investor tokens in addition to executive token holdings will be considered, resulting in tie breaks by the community in cases where executive members alone do not reach executive consensus. No token holder is obligated to voting in DAC decisions, however, token holder who wish to contribute to such decisions will be weighed based on stake of Emerald tokens for each voting action at their discretion.

ELT will also consider preference to holders of Emerald token when distributing Real Estate IDO private and public token postings. Investors in ELT's Real Estate offerings are eligible for dividends paid in daily or monthly EOS

installments.

The DAC governance system has proven to work within the EOSDAC community.[2]

Token Allocation

Tokens will be allocated with the following distribution:

- 50% IDO
- 40% Founding Team
- 10% Angel investors

IDO Phases

Tokens will be allocated with the following distribution:

1. Pre-Seed
2. Seed
3. Angel
4. IDO

Vesting Schedule

Upon IDO completion, Tokens will be released as follows:

- 20% Immediate release
- 20% 1 year after
- 20% 2 years after
- 20% 3 years after
- 20% 4 years after

Fund Allocation

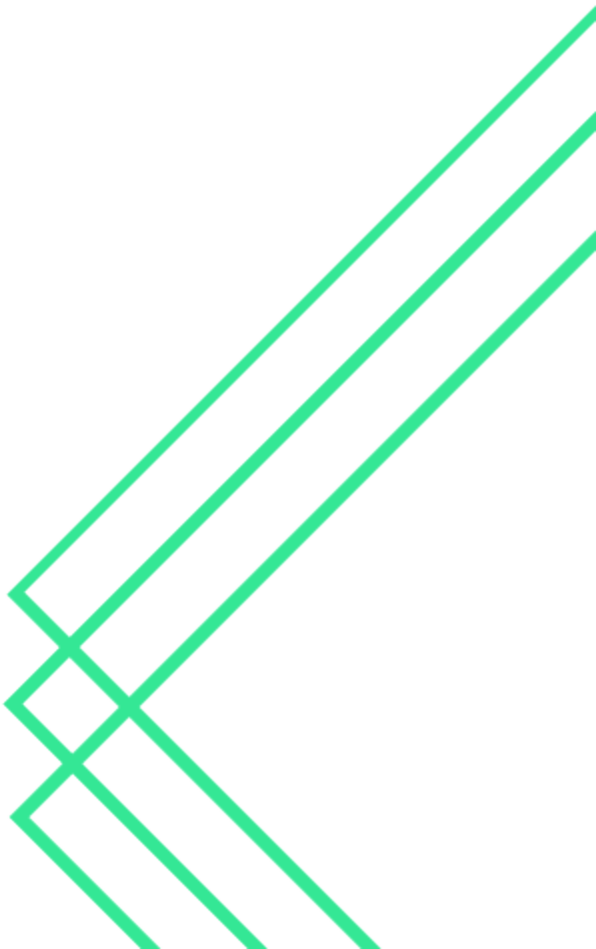
• 50% of funds will go to Marketing

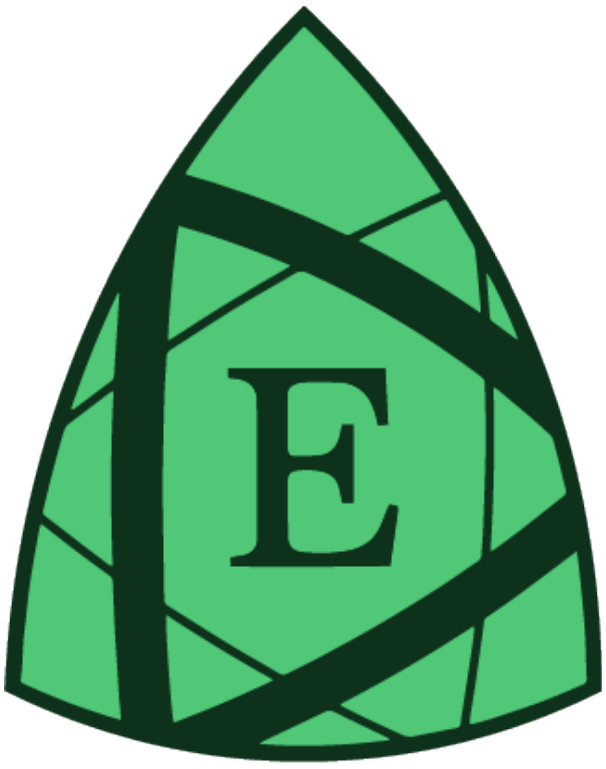
• 40% of funds will go to business management (paying and onboarding of employees, cost of infrastructure, payment of office space, development costs, etc.)

• 10% of funds will be reserved as an emergency fund for exchange users in addition to emergency business operations. This 10% will remain constant, resupplied after use by company revenue.

Sources

[1] https://coinnewstelegraph.com/why-ico-whales-are-getting-richer-and-you-are-not/
[2] https://steemit.com/eos/@eosdac/what-is-involved-in-being-a-custodian-of-eosdac





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