Orvion

The world's leading digital currency contract exchange

ORVION Capital Technologies Inc.

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Chapter 1 Overview of Cryptocurrency Market Development

1.1 Industry Development Overview

Blockchain, cryptocurrency and innovation represented by the digital economy are global, and the transformation of technology, industry and finance has formed an irreversible trend. The value of blockchain in building a trusted data sharing environment has been recognized by many parties, and the demand of various institutions for using blockchain for trusted storage has gradually emerged.

Satoshi Nakamoto published his article "Bitcoin: A Peer to Peer Electronic Cash System" in 2008. He first proposed the concept of Bitcoin and blockchain technology, and built the technical basis of secret transmission of transaction information and the Bitcoin network through blockchain technology. In just a few years, Bitcoin has become a legal and tradable asset (or commodity) around the world. It has massive liquidity, with more than billions of dollars of Bitcoin traded and used every day. That's more than the gross domestic product of most sovereigns. In fact, the market value of Bitcoin is now even larger than the market value of Goldman Sachs.

There are nearly 20 million bitcoins in circulation among thousands of holders. Bitcoin is just one of more than 10,000 cryptocurrencies that people can buy, use and trade. According to incomplete statistics, 2013 only at the beginning of the world's 2 million block chain or encrypt user, from the beginning of 2017, all kinds of tokens for chain blocks users has more than 20 million, in 2020, the global chain blocks users reached 200 million people, more is expected to exceed 1 billion by 2025 users. At present, the global digital assets is more than the total value of trillions of dollars, daily deals over billions of dollars, the currency of the trading account for ratio has dropped to 33% from 90% before. Compared with the daily trading volume of the global financial market of more than 500 billion US dollars, the digital asset market still has a large space for development. In addition, according to incomplete statistics, the owner of the global digital assets around 20 million, this number relative to the shares of more than 1 billion users, users of digital assets scale will also have great development space.

With the maturity of blockchain technology and the popularity of cryptocurrency, the digital economy has also obtained better support. Encryption currency is the foundation of digital economy development. It has been an irreversible trend to develop digital economy and promote digital development. The gradual replacement of paper currency by cryptocurrency has a solid technical foundation and is more suitable for the future development of digital economy. The main innovation of blockchain is to solve the two inherent problems of the traditional Internet, namely, the problem of "data island" and the problem of "data rights confirmation". Governance and intelligent contract, at the same time, the chain is in the form of governance innovation chain block itself. Cryptocurrency is deeply reconstructing the social and economic value system.

First, from control to autonomy. The distributed nature of blockchain will weaken authoritarian values such as hierarchy, closure and control, and strengthen autonomous values such as equality, openness, collaboration and sharing. Secondly, the incentive of new production mode brought by cryptocurrency will also strengthen the transformation of autonomous value. As the tower's Scott say, block chain drive based on hierarchy and control of traditional capitalism, to "sharing, cooperation, the raise, self organized" new capitalism, creativity, the value of democracy and participation will be strengthened.

Third, from efficiency to equity. The traditional Internet is cost-driven, and the fundamental goal is to achieve economic benefits through the highest efficiency of information intermediaries, while the blockchain promotes the fundamental goal of the Internet to protect transactions, create value, and ensure the fairness, legitimacy, security and privacy of transactions, and finally make integrity and fairness the core values.

Finally, from the material to the relationship. When the Internet was born, scholars predicted that information would replace electricity and oil as the central element of society and economy. Blockchain will further change the order of value, openness will replace channels, products, people and even intellectual property, and become the key to organizational success. "Links" rather than "possession" and "network relations" rather than "closed structures" will become the source of value.

Therefore, based on the number of chain blocks and encryption monetary economy has led to three tuyere:

- The first tuyere: blockchain was born at the end of 2008 and has been going on for 14 years. Led by Bitcoin, it has created countless miracles.

- The Second wave: around 2015, it focuses on the second generation of blockchain technology. By applying smart contracts to blockchain technology to enhance its scope of application. A series of public chains represented by Ethereum have been born.

- The third opening: With the widespread adoption of the token-based economy and commercial platforms, the linking of physical businesses is accelerating. Traditional business models and management thinking are no longer applicable, and the formation of distributed business laws and the basic concepts of the token system has created more innovation and application opportunities for the application of the token economy model.

Every technological change is a new round of wealth reorganization. As block chain, encryption, currency, digital fusion of economic development, its brings the new thinking, created a higher commercial value, so as to solve the problems during the process of transformation and entrepreneurship, therefore, innovators are applied in practice block chain technology, to improve their management of pain points. A large number of companies have begun to surround the blockchain and digital economy layout, a new wealth boom is coming.

At present, the development of technology has greatly changed the way of human life and production, and has become the main driving force for the continuous expansion of economic globalization. Digital technology has promoted the economic revolution and generated the digital economy. Digital economy become the new era of the new engine of economic growth, for the transformation of the global economy has brought the huge opportunity, promote efficiency, productivity, and the global competitiveness of the enterprise. Before the trend of The Times, on the one hand, policy and capital are targeted together, on the other hand, various industries begin to re-examine the future development of the whole industry with digitalization as the core, and the digital economy driven by digital transformation is growing rapidly.

With the continuous progress of science and technology and the comprehensive popularization of digitalization, digital currency has become a hot topic in the global financial industry. Since the birth of Bitcoin in 2009, the digital currency market has undergone earth-shaking changes, attracting a large number of investors and traders worldwide. By 2023, digital currency market will usher in a new round of change, will reshape the global economic pattern.

First, digital currency will become the mainstream method of global payment. With the advancement of technology and the popularization of digital currency, more and more enterprises and institutions will start to accept digital currency payment, which in turn will promote digital currency to become the mainstream method of global payment. Compared with traditional currency, digital currency has faster transaction speed, lower transaction fees and higher security, which is expected to become the first choice for global payment.

Second, digital currencies will become a major settlement tool for international trade. With the increase of global trade and the digital currency expansion of the digital currency will gradually replace the traditional way of settlement, become the main international trade settlement tool. Fast digital currency trading and low cost will greatly promote the development of international trade, make global trade more convenient and efficient.

In addition, digital currencies will change the way monetary policy is implemented. Traditional monetary policy mainly by regulating the money supply and interest rates to influence the economic development, but the digital currency have more fine management ability, the government can through digital currency issuance and management to implement the regulation of monetary policy. The popularization of digital currency will make it more convenient for the government to implement monetary policy, so as to better promote economic development.

Digital currencies will become an important part of the global financial market. Expanding and development of digital currency market will make an important part of digital currency as the global financial market, which affects the operation and development of global financial markets. Stability and development of digital currency market will be good for the development of the global financial markets, promoting the prosperity and stability of the global economy. Digital currency will reshape the global economic pattern in the next few years. Digital currency will become the mainstream of global payments ways, the main international trade settlement tools, the important tool of monetary policy and an important part of the global financial market, will promote the global economic transformation to digital, intelligent and efficient.

In general, digital currency has the following core advantages:

1) It can reduce the risk of fund trust

Blockchain technology has the characteristics of open source and transparency. Participants of the system can know the operation rules of the system, verify the authenticity and integrity of the content of the ledger and the construction history of the ledger, and ensure that the transaction history is reliable and has not been tamper with, which is equivalent to improving the accountability of the system and reducing the trust risk of the system. For example, blockchain can avoid the current frequent mine explosions, road running and other events.

2) It can improve the efficiency of capital payment, transaction and settlement

On blockchain, the process of transaction confirmation is the process of clearing, settlement and audit. Blockchain uses distributed accounting, and all transactions are displayed in real time on a spreadsheet platform similar to that shared globally, which is cleared in real time, greatly improving efficiency. Blockchain can increase efficiency to the minute level, which can reduce the risk of settlement by 99%, effectively reducing the cost of capital and systemic risk.

3) It can effectively prevent failures and attacks

The traditional financial model is centered on financial institutions such as exchanges or banks. Once the center fails or is attacked, the overall network may be paralyzed and trading will be suspended. Block chain in peer-to-peer network, there are many distributed nodes and the computer server to support, any part of the problem will not affect the operation of the whole, and each node has preserved the block chain data copy. The built-in business continuity, so block chain has a high reliability and fault tolerance.

4) It can improve the level of automation

Since all documents or cryptocurrency assets can be represented as code or a ledger, smart contracts and automated transactions can be implemented on the blockchain by setting up the data processing procedures on the blockchain. For example, a smart contract could write a set of financial contract terms into an agreement, guaranteeing the automatic execution of the contract and payment upon default.




1.3 Current situation of digital currency exchanges

Bitcoin and Ethereum users, the two largest holders of the cryptocurrency market, are showing a strong upward trend as heavyweight institutions such as PayPal, Microstrategy, Visa and Mastercard have announced purchases and plans to support cryptocurrencies. The number of people holding bitcoin rose 60% from 71 million in January to 114 million in June, according to the data. The number of people holding Ethereum has grown even more dramatically, from 14 million in January to 23 million in June, an increase of nearly 65%.

From 2008 to 2022, Bitcoin and its underlying technology blockchain have been born for more than a decade. Although the past decade has experienced many "darkest moments", it has also carried the dreams and hopes of countless people. And digital currency exchange, or digital currency platform, as an indispensable component of block chain in the world, occupy the advantageous resources superiority, the hub is link project and investors, and yan to the development of the whole industry into play an important role.

Digital currency is based on blockchain technology and platform, which is the most typical application of blockchain. Taking Bitcoin as an example, its platform provides the function of transfer between users, but does not provide the function of transaction and payment, resulting in bitcoin can not communicate with the outside world, let alone can not really circulate, it can not become a real currency. In order to solve this problem, the exchange is born.

In addition to the trading and payment mentioned above, the specific functions of the exchange are roughly the basic functions such as recharge and withdrawal, as well as the functions such as asset management, transaction matching and asset liquidation, which is equivalent to the bank of digital currency. At present, there are more than 12,000 kinds of digital currencies in the world, and the daily trading volume of the market exceeds 100 billion US dollars. With the development of digital currencies, the number of digital asset exchanges is also increasing.

From the perspective of functional classification, digital currency exchanges are mainly divided into centralized exchanges (fiat currency exchanges, coin exchanges, futures exchanges) and decentralized exchanges. For now, most of the digital currency exchange on the market for centralized exchange, so the security of assets for investors and exchange to is vital. As more and more people invest in the wave of blockchain and digital assets, they expect to get the harvest and value they want in both development and assets. And the existence of the digital assets exchange, in order to safe circulation exchange of digital assets and the value of existence.

Digital currency exchange is digital currency trade circulation and price determined place, digital currency exchange is an oligopoly market, has the Matthew effect. In the digital currency international, there is a saying of "twenty-eight effect", that is, 80% of traders will be in the top 20% of the exchange. If mining machines are the first money printing machines in the blockchain world, then exchanges are the second money printing machines in the blockchain world. Deep in the mountains and focusing of making a fortune with the big miners, exchange the money velocity breathtaking - each style number on the currency in the currency of the cost, all users of trading commissions, withdrawals, such as income, plus exchange issued by digital currency prices rising, make exchange has become a "nuclear" printing press.

From digital to money, digital currency exchange is the only way for tokens to become coins, the most intuitive place for blockchain technology to show value, the magic golden finger that turns coins into gold, and the centralized place for blockchain to achieve the goal of decentralization. 24/7 non-stop trading, no trading limit or trading limit, and an external environment full of random news events, make the rise and fall of digital currency full of stimulation and contingency. But now many newly entered digital currency exchanges generally have the following status quo: low security and stability, single business, poor understanding of the way, poor service quality... In the face of competitors work more profit to cut etc all kinds of pressure, to exchange the livelihoods of pressure is bigger.

1.4 Birth of Orvion

For digitized, capitalization and new financial change, it is hard to meet existing infrastructure and services, need a from concept to design to realize adaptation technologies and services solutions. As a result, ORVION Capital Technologies Inc. Orvion platform as the core, provide a more suitable for the present market situation of comprehensive solution and digital currency trading ecosystem:

1) on the premise of user interests and take low fee strategy and fighting for market share

Orvion adopt innovative mode, ultra low-cost strategy fees for global professional users of the currency, okex, such as platform fire commission fee is cheaper, plus a powerful information research and innovation integration contract, to maximize the interests of investors.

2) Use world class technical standards

Orvion owns the world's top trading technology architecture, USES a multi-layer and multiple cluster system architecture, many kinds of way to trade, provides a more secure, stable and efficient trading experience. Orvion core agreement including the underlying foundation ability, distributed, gateway and the client, distributed basic ability, the ability to make in to center on the basis of guarantee the stability of the data is consistent, network, reliable consensus, the service is available.

3) Barrier-free cross-border capital circulation

Orvion set up a new monetary and financial system, to provide convenient access to cash flow. Through the digital currency value transfer can be realized, not only break through the regional regulatory restrictions, and skip the expensive transit agencies, effectively reduce the cost of money circulation.

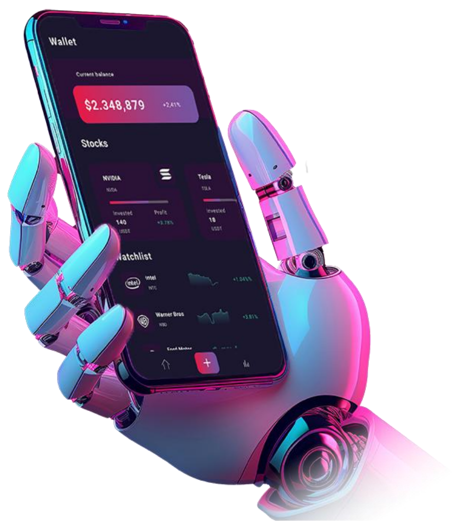
4) Solid foundation of trust

In the digital scene, a lot of control risk means failure or not applicable, trading at the heart of the trust foundation under threat. Orvion uses blockchain technology, relies on data and cryptography, and establishes more robust trust from bottom to top under the premise of minimum trust assumption, laying a more solid foundation for transactions.

In addition, since the birth of Bitcoin, digital assets based on blockchain technology have boomed, and today, the variety and influence of digital assets are increasing day by day. The formation of fair prices of digital assets, exchange transactions between different digital assets, as well as related customer services, regulatory compliance, and even the trading of digital asset derivatives are all basic requirements. Currently, a variety of digital asset trading platforms are carrying this demand.

In the short development process of digital assets, these trading platforms play a great role, but they are also accompanied by serious problems. These problems are not attributed to the trading platforms themselves, but the traditional trading platforms can no longer adapt to the requirements of the new digital asset era.

The birth of digital assets, based on the technology of block chain makes assets and transaction completely transparent, but since the card is possible. This will drive changes in platform and regulatory governance structures in the future. We believe that the direction of this change is for platforms to evolve into communities and for regulation to evolve into technology. And the trading platforms themselves have the power and responsibility to lead this change. Therefore, Orvion takes building a safe, stable, fair, transparent and extensive trading platform as its core value pursuit, aiming to create a one-stop crypto finance and traditional financial investment ecosystem for global users.



Chapter 2 Overview of Orvion Exchange

2.1 Introduction to Orvion Exchange

ORVION Capital Technologies, Inc., headquartered in the United States, is an excellent reputation in the field of financial brokerage and asset management comprehensive financial companies. The company's deep accumulation and extensive influence in the foreign exchange market have enabled it to enjoy a high reputation in the global financial community. ORVION Capital Technologies Inc. With branches in Tokyo, Singapore, Hong Kong, Canada, Sydney and other international financial centers, Orvion covers major financial markets around the world. The company's management has more than 10 years of operating experience in global financial markets, with a precise grasp of market dynamics and excellent strategic vision, ORVION Capital Technologies Inc. Serving more than 6 million customers, Orvion has become one of the world's leading financial service providers.

In order to meet the growing demand for digital asset trading, in 2018, ORVION Capital Technologies Inc. Orvion Exchange was established with a huge investment. With the improvement of the main network and supporting ecosystem, Orvion Exchange has launched operations worldwide. At present, Orvion Exchange has been successfully received the MSB licences, lay solid foundation for the operation of compliance.

Orvion Exchange is committed to becoming the world's leading cryptocurrency trading platform. Inherit the successful experience of the parent company in the financial markets and technology accumulation, focus on technological innovation and the user experience. We provide global users with diversified digital asset trading services, including mainstream cryptocurrencies and emerging digital assets, aiming to meet the needs of different investors.

In terms of safety, Orvion Exchange using the world's leading technology architecture. The platform stores the vast majority of user assets in cold wallets and multi-signature wallets, and reduces risk through off-site backups. In addition, Orvion Exchange strictly enforce KYC and AML procedures, to ensure compliance of user's identity and transaction. Platform provides concise intuitive trading interface and advanced trading tools, makes every effort to provide users with efficient and convenient trading experience.

Orvion Exchange's business scope covers currency trading, fiat currency trading, contracts and options and other services. The platform has developed a self-developed efficient matchmaking system with the ability to process millions of transactions per second, ensuring the efficiency and stability of the platform. At the same time, Orvion Exchange services, also provides C2C transactions and provide customized for project party on currency, boost its fast into the market.

Orvion Exchange is committed to solving the pain points of existing trading platforms and comes up with innovative solutions. The platform uses smart contracts to facilitate transactions, reducing the cost of trust in the exchange, and ensuring the openness and transparency of transactions through decentralized on-chain clearing and settlement. The platform also supports multi-asset interworking, connects to mainstream digital token networks, enables convenient exchange between assets, and provides low-cost access to emerging tokens.

As ORVION Capital Technologies Inc. An important strategic project under Orvion, Orvion Exchange will lead the future of global cryptocurrency trading by leveraging its parent company's extensive experience and technology accumulation in the foreign exchange market. Orvion Exchange is committed to providing the best quality digital asset trading services to global users and promoting the wide application and development of blockchain technology. We will continue the pursuit of excellence, to be a leader in the global digital asset markets and investors trust partner.

Orvion is positioned as a blockchain basic service provider, committed to providing a high-quality crypto asset trading platform for global users, adhering to the basic principle of "don't be evil", adhering to the honest, fair and enthusiastic service to customers, and welcoming all partners/projects that are beneficial to the fundamental interests of users with an open attitude.

Level, financial security, comprehensive financial risk control system and security system, wallets, sign system to assure the safety of funds;

- Fast charging and withdrawal: 24H manual online review, protect customers not to miss the best investment opportunities;
- Global service: global business service coverage to help you invest in global crypto assets and trade with global users;
- Strict asset selection: Strictly select high-quality crypto projects and filter 100% extremely risky projects for you;
- Support for multi-currency trading pairs: LTC/BTC, ETH/BTC, BCH/BTC, ETC/BTC, BTC/USDT, LTC/USDT, ETH/USDT, BCH/USDT, ETC/USDT, BTC/BTC, ETH/ETH and hundreds of trading pairs.

Orvion is building the most secure, stable and efficient digital currency international website for global users, and providing the best quality digital currency innovative trading service experience. The self-developed matchmaking system is capable of processing millions of transactions per second. In addition, in order to meet the diversified needs of users, in terms of digital currency trading services, it has not only developed advanced AI intelligent tool system for coin trading, but also opened up secure and efficient C2C trading services. It has also prepared a variety of coin listing schemes for project parties, and built a continuous, transparent, low-friction and non-discriminatory trading environment.

Orvion development team members to the international top scientific research institutions and chain blocks technical development team, in pay attention to improve the user experience degrees at the same time, continuously upgrade platform technology, improve the ecological system, the value for the backing, with scientific and efficient management of operations, distributed ecological resources and energy accumulation and the output energy to the entire industry, Finally, assigned to the application of regurgitation feeding the ecosystem, eventually forming cycle can assign, continued strong development momentum.

2.2 Platform features

Orvion's mission is to create a fair and ideal environment for investors to invest, trade and manage digital assets. We continue to pay attention to the undervalued value coins in the market and the high-quality coins that are blocked out by the high threshold of other trading platforms. Therefore, the goal of the platform design is to comprehensively ensure the fairness and transparency of the market. And can satisfy the security in the safest and most effective way, audit, report, analysis of the regulatory compliance requirements.

The Orvion platform has the following core features:

- Transparency: Orvion will be the world's first real-time open and transparent trading community. The most important reason why traditional exchanges are unable to be transparent about their assets is due to technology. The birth of blockchain technology makes this goal technically feasible. Orvion's mission is to turn that feasibility into real practice. Orvion will build a real-time asset and transaction data query verification mechanism and make it available to the public.

- Community autonomous organization: Orvion does not have a traditional centralized corporate structure, with no CEO or board of directors. Based on blockchain technology and economics, Orvion will be the world's first autonomous community trading platform. Orvion allocates part of the equity of the platform to community members through the model of "holding coins and sharing".

Security: for digital asset transactions, security is a top priority. Orvion adopts security design based on multi-signature, off-line signature and layered architecture, and stores 90% of digital assets in cold wallet to ensure the security of digital assets. At the same time, on Orvion platform, the transaction parties can choose the transaction with privacy protection. It can provide privacy protection for the transfer and transaction of digital assets. It can provide anonymity protection for digital asset holders.

, asset exchange: Orvion able to connect to the existing digital certificate of the network, the complete asset exchange at the same time without changing the original chain mechanism. New digital token networks can also be connected to Orvion at a very low cost.

- Safety protection: Orvion platform continuously strengthens the construction of security protection system, implements security requirements step by step, and gradually builds a future-oriented security system. The transaction security technology is endogenously aggregated with the data environment, the blockchain network security operation is endogenously aggregated with the data operation and maintenance and application development, and the actual combat, systematic and regular security monitoring is carried out. Construct dynamic defense, active defense, defense in depth, accurate protection, integrated control and prevention, defense from spreading on the chain of security defense system.

- Market pain point solution: In view of the existing drawbacks of the exchange, Orvion has gradually entered people's vision because of its excellent pain point solution and advantages of safety, stability and efficiency. In Orvion, users have absolute control over their own assets, and the exchange is only responsible for providing digital currency liquidity. The transaction is completed by smart contracts, and the final settlement and clearing are carried out through the on-chain network, which ensures the openness and transparency of the transaction and greatly reduces the cost of users' trust in the exchange.

2.3 Business Module

Orvion are including the currency for users in the world currency, contracts, options, market, and the process, including the derivative services business services.

1) Coin and coin trading

Orvion connects to the whole network through the API interface, providing investors with sufficient digital asset trading. Coin currency trade sector is divided into mainstream currency area, potential currency area, new kind of three plates, support all major currency trading on the market. The trading of transaction price can use market price and price, the user can need according to oneself. Abnormal orders at the same time in order to prevent the user errors caused by the market price fluctuations and personal capital loss, Orvion will provide real time alert service.

Support USDT, BTC, ETH mainstream currency trading market, for example, when a user hold USDT, can purchase any support with USDT USDT on currency trading, and more.

2) Contract trading

Orvion will provide a variety of forms of financial products, in addition to the existing mainstream digital assets outside the spot trading, but also provide a variety of trading products including contract trading, such as perpetual contracts, delivery contracts, analog trading and so on. Orvion innovative put forward the concept of instant contracts, said anywhere, complete contract deal with the fastest speed.

3) options trading

Orvion builds a continuous, transparent, low-friction, non-discriminatory binary options trading environment and trading market. For example, in the Orvion digital currency market, investors call a trading pair, they need to select the maturity time, input the investment amount, and then click "bullish" to complete the investment. If the maturity price is higher than the entry price, no matter how much the price rises, even one point, the investor will get a fixed income; On the other hand, if the judgment is wrong, no matter how much the price falls, the investor will only lose the investment and will not be trapped. The final profit or loss is only related to the size of the entry price and the maturity price, and has nothing to do with the movement of the middle price. No matter in price and expiration how big price gap, are fixed income or loss!

4) Live quotes

Orvion provide more transactions, contracts, real currency market information, hundreds of transaction on the price, the rise and fall, the highest and the lowest price, 24 hours trading such as reference, to provide users with the investment to provide data support. Orvion also provides users with important content including but not limited to the change of the main position address, development progress, code update, community heat, capital inflow and outflow information and industry information of each digital asset listed and traded on the platform.

5) Other functional sections

Orvion also has a well-developed protection mechanism in place. The existing trading platform once appear, holes or was hacked events, such as the user's loss is hard to get compensation, to protect the user platform, Orvion established investor protection fund. At the same time, Orvion has made a big push into social trading.

In addition to the excellent investor tracking system, Orvion has developed IM real-time communication system to build investor community and encourage users to communicate and learn from each other. Community investment for the construction of the rich sources of information, auxiliary investors for more comprehensive judgment and operation. Individual investors can also build community, collaborative development trading strategy, investment experience exchange, etc.

Future, Orvion investors will also establish education sector, to provide users with professional, comprehensive, systematic digital assets investment education courses, help platform users say goodbye to blind investment, become a qualified investors in the field of digital assets.

2.4 Example of trading mechanism

1) Distributed trading mechanism

Orvion can build contracts to complete peer-to-peer exchange functions. Automatic matching of selling and buying information is also very easy to set up, for example, providing users with the ability to exchange BTC/USDT and other currencies on the platform. This makes can block chain technology don't need to build a third party to participate in the exchange of digital encryption system.

2) currency currency trading mechanism

The trading system is a transaction-to-coin transaction, in which buyers and sellers freely conduct transactions and the system automatically matches them, including the following four ways of listing orders:

, buy - price trading: buyers can be set to buy the price, such as market sell dish in the same price sell list, automatically set, such as no or same price sale quantity is insufficient, the remaining amount of the purchase order is automatically entered into buying, waiting for the system.

Buy - market transactions: buyers do not set the price, the system automatically set hard sell the sale, according to the price from low to height were brokered, sale quantity is insufficient, the remaining amount of the purchase order is automatically entered into buying, waiting for the system.

- Sell-limit trading: the seller can set the sell price. If there is a buy order at the same price in the market, it will be matched automatically. If there is no buy order at the same price or the buy order quantity is insufficient, the remaining number of sell orders will be automatically entered into the sell order and wait for the system to match.

Set, sell - market transaction: the seller shall not sell the price, the system automatically set to pay in buying matched according to price from high to low, such as the check number, remaining amount of sell orders automatically entered into the selling, waiting for the system.

2.5 the core technology advantage

1) High security

Orvion is built on the blockchain network underlying Binance Smart Chain and draws on previous mature public chain systems to ensure the highest level of security. Advanced multilayer, many of the cluster system architecture, the development of multi-tier architecture and service way to significantly improve the performance of the system, security, stability and expansibility; Function deployment, version updates without downtime, the maximum guarantee the operation of the end user experience. In addition to the above the safety stability of the technical support, in the operating level, Orvion has many financial products and technology security experts, equipped with international level of risk control team at the same time, the digital assets to provide due diligence, project ratings, intelligent contract audit, risk assessment and other services, to provide multi-dimensional security and risk control.

2) Extremely fast trading

Orvion's underlying blockchain network ensures that users can enjoy a top-notch transaction speed experience, with the highest transaction speed reaching the order of millions. Self-developed transaction matching engine, advanced distributed cluster architecture and micro-service development mode, so that each transaction pair can be deployed on different servers for matching, so it can achieve linear expansion capacity, can process up to 5 million transactions/second concurrently. Securities backed by advanced algorithm for institutional investors and individual investors to provide professional high-frequency trading support; Matching efficiency in TPS level, the highest speed measured set has reached 130000 transactions per second, transaction smoothly, without caton and delay.

3) high transparency

Orvion trading information on the chain, remove the existing in the operation of the platform may appear inflated IOU, divert the user margin and market do bet, etc; Reduce the risk of using the trading platform and increase the transparency of the trading platform.

4) High privacy

Many platforms collect user information through KYC, which increases the risk of user information leakage, while Orvion will encrypt user information and transaction information through cryptography technology to protect the privacy of user information.

5) Low transaction cost

Orvion will provide flexible and diverse trading methods for users to choose from. There is big deal trade on the whole flow of information chain, user can select in this way, the security of transactions with the highest security; At the same time, due to each link needs to consume Gas costs high transaction cost, small amount or part of the user can select the security does not require transaction chain process information, you only need to put to clinch a deal the accounting information chain, dealmakers, hosting and other process under the chain, eventually form the transaction cost is low.

More than 6) system support

Based on Orvion's strong system ecosystem and the need to serve different types of customers around the world, the platform will provide support including transaction currency, high performance, security and stability, liquidity, multi-language, multi-client and derivatives. Orvion will give full play to the advantages of the team in technology, operation and resources, and make multi-dimensional efforts to provide sufficient liquidity for the platform and bring good trading experience to users. The main measures are as follows:

- We have rich resources and a large number of partners in the industry, and actively cooperate with outstanding mines, investment funds, financial teams and major trading houses around the world to provide liquidity support.

Through diversified business model, realize the commercial fission, and rich variety of block chain applications, users and active degree of the lifting platform, fundamentally improve the platform of liquidity.

- Through the exchange strategy, on the one hand, we develop our own sites in the compliance market, and on the other hand, we provide technical support for teams with resources, flow and capital advantages around the world to open exchanges. This kind of decentralized exchange alliance model can realize the deep sharing of transactions, and orders between different countries and different sites can be traded. Able to provide sufficient liquidity support for each site.

Exchange not only provides the API (Application Programming Interface, Application Programming Interface) for high-frequency trading program is invoked, wallet, DApps third party, but also through technical means to share with other exchanges depth, to provide more liquidity.

7) multi-language support

In our plan, the initial version of Orvion will support English, simplified Chinese, Traditional Chinese, Japanese and other languages, and the subsequent versions will support Korean, Russian, Arabic, French, Spanish, Portuguese, German and other languages. In the future, it will support the common languages of more than 100 countries and regions, clearing the language barrier for building a world-class blockchain digital asset trading platform.

Chapter 3 Supporting services and support

3.1 Supporting function support

In order to support the efficient service implementation of diversified business ecology, Orvion has developed basic functions including wallet, asset registration, digital currency transaction, blockchain browser, operation management system, etc.

1) asset registration system

Asset registration is one of the basic functions of Orvion. The asset registration process is usually completed by the gateway or gateway agent. All assets registered by the gateway or the agent need to obtain the trust of the asset owner, and only the two trusted parties can trade the same asset. Registered assets are mainly divided into:

- Current-type assets: current-type assets are mainly used to connect the gateway with other digital currencies and digital asset platforms. For example, the gateway can register the asset code of BTC, and any account with BTC can trust the gateway and recharge BTC assets to the gateway account. Unlimited currency types of assets, gateway has how many actual monetary assets, how many assets can register symbols.

- Physical assets: mainly refers to the digital assets, such assets are generally registered by enterprises or institutions, and sold by the gateway. Such assets generally have a certain quota. After registration, the registered party will be restricted from issuing additional assets by means of operation authority threshold suicide.

2) Orvion wallet support

For the convenience of ordinary users to use the wallet, Orvion wallet adopts SPV mode, that is, through the Web way to access the wallet. The wallet uses SSL protocol and supports Symantec CA certificate. In addition, the wallet supports both cold and hot wallets.

- Cold wallet: a wallet suitable for large amount of funds. The public and private key pairs of the wallet are generated offline. Users can generate any preferred key pair.

, hot purse: hot purse for quick trading scenario, small thermal purse key is managed, when a user registered account wallet, will be paid using the user's password in the user's computer to generate a private key local by 3 des encryption, encryption and the result was through the SSL protocol in custody purse the cloud. Namely in the network transmission and the cloud storage heat wallet is key information users encrypted data, except the purse user, anyone can't get to the private key of the original content.

When the user needs to sign the transaction, the hosted private key will be obtained from the cloud server of the wallet, and the content will be decrypted on the user's local computer by the user entering the payment password. After the decryption is successful, the local program of the wallet will sign the transaction information with the private key and submit it to the global intelligent trading center network for transaction.

Orvion purse contains two types of assets: underlying assets, and assets, registration properties similar to the real life in the wallet RMB and all kinds of CARDS. The native assets can be used without any trust, while the assets registered in the gateway must trust the corresponding assets to exchange value.

3) assets query system support

Orvion provides a complete asset query system, which is convenient for ordinary users to check the number of assets displayed in any application developed based on Orvion. The asset query system supports linking different blockchain nodes to query the ledger situation, and can observe each block and each transaction generation situation in real time. When entering the corresponding account, it can query the balance of various assets and all transaction records of the account.

4) earnings aggregator supports

In the future, in order to meet the diversified trading needs of users, Orvion will realize the construction of revenue aggregator system by creating DeFi lock-up. That we will build Orvion trading profits aggregator, open DeFi lock up. In the form of aggregators, Orvion implements the expansion of trading functions, such as pledging USDT, transferring funds to the exchange vault, and managing funds through policy theory to maximize returns while minimizing risks.

Orvion proceeds aggregator system more efficient assets. On the way to value benefits, our cognition to the disadvantages of existing similar platform, because each other's idea is different, but not to higher places, in different communities, speak the same language, maybe you are holding their own ideas and values.

The Orvion team believes that community communication does not require full recognition of values, and the protocol followed by Orvion is a bridge, crossing all chains, absorbing and receiving all people who adhere to the concept of decentralization, and leading them to the ultimate freedom. In addition, Orvion will also focus on information security to create more guarantees for the freedom of assets. We believe that the true freedom of assets comes from the privacy and security of information. Only when assets are allowed to flow according to their own will, and always in a safe place, is the real freedom of assets.

Blockchain does not mean to be unconventional, in addition to making assets more free, and at the same time to make the experience more human. Orvion will make anonymous decentralized financial services available to all, making modern finance no longer just a tool for the rich to collect money, but a key to the freedom of wealth for the common man.

5) Orvion Trading Engine

In order to achieve the top information flow processing ability, ensure accurate information arrival and error-free processing results, Orvion engine system has been tested to achieve the maximum peak transaction processing speed of 5 million TPS, transaction matching efficiency is 35%-40% higher than the same industry, providing basic technical support for stable and efficient operation of the platform; At the same time, the integrated optimization of various nodes Orvion cloud computing configuration, make Orvion can reached the international top stock futures trading platform processing speed.

6) Operation management system module

Development language:.net core commercial edition and golang Laboratory edition

Through the VPC network isolation, security VPN access mechanism to ascend;

- Use https protocol, cooperate with high defense and WAF to improve anti-attack capability;

- Introduce a financial risk control mechanism at the business level to comprehensively improve user security.

3.2 Hybrid governance model

The governance model of Orvion platform is different from the "community autonomy model" of "autonomy for the sake of autonomy", and also different from the centralized corporate governance model. Orvion platform operation efficiency, service quality, and give attention to two or morethings community autonomous autonomy, explore the new hybrid governance mode -- "group maintenance to build + + node community work".

1) Co-construction of nodes

Orvion block chain industry advantage resources integration and building up to more than 10 investment institutions and industry media and community to build ecological assigned for the node. Nodes give full play to their own resource advantages, undertake relevant obligations, and jointly build Orvion platform. At the same time, they enjoy the rights and interests such as the right to upload coins and the distribution of commission fees, and share the development achievements of Orvion platform.

2) community work

The community, operation team and nodes are integrated with each other to contribute to the construction and maintenance of the platform. Will gradually give community rights, to promote community voting decisions, let users community members is trading platform, and keeper of the trading platform or owner.

3.3 Top security protection

To ensure the safety of the platform and the user's digital assets Orvion relying on professional experience in the field of asset security team and security capabilities, united international security team, a complete set of security solutions is designed.

1) wallet safe

Cold and hot wallet isolation, three-level cold wallet management system, multi-) signature, key saving mechanism, external password audit mechanism;

2) System security

Threat perception system, vulnerability management, reinforcement, mobile security and emergency response system;

3) assets security

Asset transfer intelligent monitoring abnormal alarm, withdrawal block;

4) network security

Multi-layer firewall isolation to achieve border protection and permission control; WAF protection and mass DDos cleaning to prevent hacker attacks.

3.4 multiple tools support

1) high performance support

Orvion adopts the service-level architecture design of large financial institutions, integrates advanced memory matching algorithm, asynchronous non-blocking read and write, distributed real-time information transmission framework and related advanced technologies, with high reliability, high performance, strong security, scalability and easy maintenance. Friendly trading environment, strengthen the support of FIX protocol and API. Our system is expected to reach a processing speed of 200,000 transactions per second.

2) Liquidity support

Orvion has abundant resources and numerous partners in the industry. It has reached cooperation with many international mines, active communities, investment funds and professional investment institutions to provide sufficient liquidity for the platform. Orvion quantitative team with professional docking global head exchange market depth, provide total fragmentation, liquidity support high frequency, quantitative trading adaptation rapid programming trading set of API interface. The introduction of market maker system.

3) Powerful trading tools

With the maturity of the market, the complexity of the transaction demand, simple past transactions function has been difficult to meet the appetite of professional investors, Orvion with currency team of senior experience, combined with the depth study of artificial intelligence technology, provides more abundant for professional investors trading tool suite, including automatic cast surely, quantitative trading tools, strategies, etc., But also for ordinary investors can easily access to professional tools, reduce the professional investment threshold, makes trading more universalization.

Chapter 4 trading environment security system

Orvion platform adopts central bank-level security system design, including system design and management. Technical requirements involved in physical security, network security, host, security, application security, data security, the five dimensions. Orvion platform technology with multiple protection as the core concept, by establishing a multi-level information system, computing environment, regional boundary, communication network and management center, combined with operating system and the present condition of the business, protected areas. Management involves safety management system, safety management organization, personnel, security management, system management and system operation and maintenance management, and other dimensions. Management system from the establishment, implementation and execution, monitoring and auditing, maintain and improve the four scientific process.

Orvion also established the perfect protection mechanism. The existing trading platform once appear, holes or was hacked events, such as the user's loss is hard to get compensation, to protect the user platform, Orvion established investor protection fund. At the same time, Orvion has made a big push into social trading. In addition to the excellent investor tracking system, Orvion has developed IM real-time communication system to build investor community and encourage users to communicate and learn from each other. Community investment for the construction of the rich sources of information, auxiliary investors for more comprehensive judgment and operation. Individual investors can also build community, collaborative development trading strategy, investment experience exchange, etc. Future, Orvion investors will also establish education sector, to provide users with professional, comprehensive, systematic digital assets investment education courses, help platform users say goodbye to blind investment, become a qualified investors in the field of digital assets.

4.1 systematic risk control mechanism

Orvion puts security first, so our systematic risk control mechanism will start from the following aspects:

1) the separation mechanism of database, speaking, reading and writing

At an early stage, the system of risk control separation of master-slave replication, generally through the establishment of database, speaking, reading and writing, such as Sharding mechanism to ensure that the trading system database data synchronization and risk control system and the separation, speaking, reading and writing. System risk control generally only has the right to read the required customer/account data and transaction data, so as to ensure the security and reliability of account data.

2) cache/memory database system

An efficient caching system is an effective measure to improve performance. Generally, this mechanism will store frequently used data in a cache system such as Redis. For example, risk control rules, risk control case base, intermediate result set, black and white list, pre-processing results, transaction parameters, billing template, clearing and settlement rules, distribution rules and other data. For some high-frequency trading, based on performance considerations, will use memory database for storage (usually) combined with SSD hard disk.

3) the RPC/SOA architecture

Lower transaction system and risk control of the coupling. When there are few system services in the initial stage, the messaging middleware such as RabbitMQ/ActiveMQ or RPC method is generally used to realize the invocation of services between systems. When the system service, service governance problems, will adopt Dubbo, SOA middleware to implement the system service call.

4) Compound Event Processing (CEP)

Real-time/quasi-real-time transaction risk control, compared with pure rule-based processing mode, composite event processing (CEP) mode has better performance and scalability.

4.2 operational risk control mechanism

Operational risk is the risk inherent in the operation and management activities of the trading platform. Orvion regards operational risk management as an important part of its own risk control system. So-called operational risk, is due to the imperfect internal procedures, personnel, or have a problem, and the risk of losses caused by external events.

Orvion operational risk control system is under the overall risk management framework, through a comprehensive internal regulation, effective identification, assessment, inspection, control and report operational risk, to ensure normal platform business, sustained and steady development. Orvion has established a special compliance and risk management department to be responsible for the organization and implementation of operational risk management, with specific responsibilities including:

- Lead and organize the formulation, revision and improvement of various business systems and procedures of the trading platform to effectively prevent operational risks.

, assist related business and support department to identify, evaluate, test, control the corresponding operational risk business lines or related department.

Handle time, set up a trading platform, operation risk and accountability, as well as the operational risk loss shall be investigated for the mechanism.

- Conduct regular/irregular compliance inspection, analysis and assessment on operational risk management work and matters of all business and support departments, and issue corresponding opinions and improvement requirements.
- Monitor the key risk indicators of each business line of the trading platform, update and improve them regularly or irregularly according to the changes of regulatory requirements and business development status.
- Regularly analyze and evaluate the management of operational risks of

relevant business lines, collect and report the time and loss data of operational risks of the Company.

4.3 Product risk control mechanism

The first stage of product risk control mainly focuses on the due diligence before product launch, including the rationality test of historical data and parameters in the database, and the use of historical transaction data or standardized derivatives contracts and their market value to conduct a traversal test on the model to judge the rationality of its design.

The second stage of the product risk control has focused on the products and stable operation of the stage, by formulating various financial products access to standardized terms, in the form of intelligent contract established sequence through the lock parts, after all through the audit of financial product online, in the form of decentralized data block chain stores distribution, forming a financial product library. This stage investors are free to choose products, each product will not mislead investors, because human background, of all the listed products are produced by following strict intelligent audit data to support, and the data cannot be changed or deleted permanently.

4.4 new public scrutiny

Orvion will set up a project review committee composed of well-known institutions and professionals.

Committee consists of several functional departments, to the application for listing of projects listed program, code, white paper, finance, legal compliance review. At the same time, Orvion will introduce authoritative third-party rating agencies to independently review the listing projects. Orvion will introduce internationally renowned third-party authorities to participate in the review of all aspects of the project listing transaction to ensure that the review results are true, objective, reasonable and credible.

Listing application review: currency, for new listed Orvion first will review its compliance with program listed trading platform, from the listed project application, registration and filing of application documents, submit listing committee review and issue the audit opinion to the listing.

, code review: the project review board consists of professional code review department, listed on the new architecture, readability and maintainability of the currency code, code functions the possibility and the safety of the code system of the comprehensive review on.

White paper review: in order to avoid the phenomenon of entropy, the white paper, also in order to protect the rights and interests of investors, project review board consists of white paper audit department, the authenticity and rationality of the white paper in-depth analysis and review.

, legal compliance: the project review committee will also establish forensic auditing department specifically for each new currency for legal compliance review, ensure compliance with legal requirements, where the project is located, avoid the relevant risks.

, financial review: the project review board consists of financial audit department, the project of the white paper reveals the allocation to review, at the same time the usage of project party to raise money to make regular file disclosure, the use of party funds to ensure that the project is reasonable.

Chapter 5 Key technologies

5.1 system overview

The technical architecture of Orvion consists of three levels: participant management, blockchain layer and application layer. The exchange system consists of two sub-levels: verification node and voting node.

1) participant management

Orvion system participants join the blockchain network as super nodes. Different business party can join and exit according to the demand. The communication between nodes, common to ensure the authenticity of deposit certificate carrier and the deposit certificate data. Through the effective development of unified and applicable transaction standards, STO gateways, smart contracts, etc., so as to effectively link and transmit the identity functions and contract elements of each node in different events.

2) block chain layer

Key technologies: This part is the basic support of each module of the application service part.

Block chain technology: including network structure, data structure, the mechanism of consensus, signature attestation and so on, is the foundation of the system is running.

Related technologies:

, data storage module: based on IPFS system, based on the content address alternative based on domain, also is the users find it is not an address but the content of the stored somewhere, do not need to verify the identity of the sender, and just need to verify the content of the hash, through this allows web pages faster, more secure, more robust and more durable. Provide storage security measures at the same time, to avoid data were forcibly steal; And data access audit, easy to trace data changes and circulation.

- identity module: to block the user, equipment chain certification, registration marks its effectiveness, and to manage the user's identity is the private key, the system also contains access security function, as an important guarantee of system security.

- timestamp service: provide unified time service system.

Data encryption module: service for the system to provide the data encryption, the module should support countries close algorithm, can support pluggable encryption algorithm.

Client modules: the client provides users with the account, blocks, node and the wallet management and query functions, such as new accounts, send transactions, to generate random seed, block information, obtain purse state, etc. All transactions through the client, after signature and encryption into blocks in chain.

P2P module: P2P module, connect the nodes in the entire network broadcasting deal, block information.

- Mempool module: Transaction cache pool, mempool stores transactions from RPC interface, and transactions from P2P. The implementation of Mempool is mainly to solve the problem that the consensus module processing speed is slower than the RPC module.

3) Application layer

Application services are implemented and encapsulated for various service modules based on the support provided by key technologies of Orvion system. Each service is composed of a set of related specifications, processes and supporting interactive interfaces.

The blockchain layer application service of Orvion system can be invoked to connect with specific business scenarios through secondary development.

5.2 Technical Architecture

Orvion system is high speed, security, extensible block chain infrastructure, from two layers of super node and storage. And through IPFS technology, processing millions of transactions per second services, through a secure decentralized cloud database, to provide Dapp with unlimited expansion of storage capacity. The Orvion architecture system consists of the following parts, which are:

- Homogeneous multi-chain chain system, providing high TPS access capability, cross-chain transaction capability, etc.

- P2P network system Orvion P2P, which provides addressing capabilities at the network layer;

, database cluster system, providing unlimited extension of secure encrypted data storage capacity;

- the underlying architecture of the Orvion system, including a block storage system and a distributed file system;

, composed of multi-node consensus attribute based encryption authentication access system, the database access control gateway;

- by multiple validation data integrity verification organization comprised of nodes;

- an adaptive probe system that provides in-memory data storage, performance monitoring, security monitoring and Metrics data uploading capabilities.

Orvion system core is chain library substring separation mechanism and function design. Decentralized applications can according to different level of trust and open validation data, the data were stored in a chain and database systems, Orvion system provides data collaborative management of different types of different levels. And, as a result of multiple database cluster system is a Permissionless environment.

Orvion system also completed the agency attribute based encryption based on access control mechanism, and the complete holding proof of stored data. Chain of library is the main reason of the separation of design to system upgrade and update in the future, because the block chain system update will result in system of bifurcate, total and irreversible effects on the entire economic system, therefore, we put the main data processing ability of database system, for the database system access control system through the functional substring to complete.

Function substring design is for the sake of the future extensibility, more is to complete two core functions of decentralized storage system: privacy and hold the proof data. We through a highly efficient authority attribute based encryption scheme can realize the function of cloud storage data access control and encryption.

5.3 Database Design

Orvion system uses IPFS distributed storage for database design.

IPFS (Intel - Planetary File System) is a globally oriented, peer-to-peer distributed version of the File System, the goal is to supplement (even) the rule of the Internet, hypertext transfer protocol (HTTP), will all have the same File System computing devices connected together. Principle with content based address alternative based on domain name and the address of the user is looking for is not the address but the content of the stored in one place, do not need to verify the identity of the sender, and just need to verify the content of the hash, through this allows web pages faster, more secure, more robust and more durable.

At present the traditional problems of centralized HTTP, and there are too many unsafe factors in terms of safety, can be seen from the recent network safety accident of the disadvantages of centralized network storage, IPFS fundamentally changed the way to find, find the location, using HTTP and use IPFS we find is content.

IPFS is general purpose infrastructure, there is no restriction on storage. Large files are broken up into smaller chunks that can be downloaded from multiple servers at the same time. IPFS network is a non-fixed, fine-grained and distributed network, which can well meet the requirements of content delivery network (CDN). This design makes it easy to share all kinds of data, including images, video streams, distributed databases, entire operating systems, chain of modules, backups of 8-inch floppy disks, and most importantly, static websites.

IPFS files can also be abstracted into special IPFS directories, which are annotated with a readable filename (transparently mapped to the IPFS hash) and accessed with a directory index just like HTTP. On IPFS website process as in the past, and the site to join IPFS node command only need one instruction: IPFS add -r yoursitedirectory. Links between web pages no longer need to be maintained by humans, and IPFS's built-in lookup can do the job.

IPFS won't ask for each node to store all the content, the owner of the nodes are free to choose want to maintain the data. It's like the bookmarks, outside backed up their own web site, the voluntary provide service for the attention of other content, different is the bookmarks will not eventually become failure as before. Copies of IPFS between nodes, storage and site support are very easy, only need to use an instruction and the hash of the website. IPFS is universal, and storage limits are rare. It service file but can small, for some big files, it will automatically cut his for a few small piece, make IPFS nodes can not just like HTTP download files from a server, and can be downloaded from hundreds of servers to synchronize. IPFS don't need each node to store all published to IPFS content. Instead, each node stores only the data it wants. If each node hosts a little bit of data, all that data by accumulation provides more space, bandwidth, and availability than any centralized HTTP. Distributed network will soon become the world's fastest, most available, as well as the largest data storage. No one has the ability to close all nodes, so the data is not lost forever.

5.4 the support of C2C

The original traditional centralized way to trade, relying on platform do credit endorsement, to ensure reliable trading, but also exposed the personal privacy and balance the risk of theft. Individuals cannot control their own information, but in the blockchain network, personal transaction information is stored on all nodes in a decentralized manner, which can be publicly reviewed by anyone, forming a decentralized data storage mode. It is more efficient to skip the centralized platform and directly conduct transactions between individuals. In the blockchain system, each node has a high degree of autonomy. Any node may become the periodic center, but it does not have the mandatory central control function. Nodes and between nodes, can through the network to form the nonlinear causality, decentralization, open, flat, equality of the system.

Compared with centralized trading, due to regulatory client funds need to abide by the management institution, the relevant provisions of the need to overcome many obstacles. To users, which trade in this way, must comply with the various rule of centralized trading services and the corresponding fee.

Orvion by DEX (Decentralized Exchange) Decentralized trading rules, to solve this problem, implementation is convenient and safe transactions. There are two ways to implement DEX decentralized transactions: Bitcoin Cross-chain support (BTC Relay) and Hash Locking.

5.5 privacy support

Block chain technology cannot be tampered with, distributed trait, indeed can avoid user privacy is centralized authority is sold, hacker attacks and other problems, but the books open and transparent, but let exposure on the chain, the massive user data privacy issues such as air still attic, has not been fundamentally solved. For example, the original shopping on taobao, now decentralized, not through taobao transactions, both parties direct mail. Although there is no taobao to master both transaction data, but they are trading data is recorded on the block chain network, anyone can look at it.

Based on the accounts and UTXO hybrid model, Orvion privacy trading system, realized the block chain in use UTXO system at the same time, keep the account system, add ring signature and disposable address, free accounts between privacy and public circulation, and do not traceability and connectivity.

5.6 P2P Networks

Orvion block chain network is a distributed network composed of all nodes, each node on the network at the same and equal power; Nodes are point-to-point connections to each other also can block data and transaction validation independently ability. Such Peer-to-Peer Network is the most important foundation of blockchain data layer; It realizes the underlying mechanism for nodes to communicate with each other, connect with each other, and confirm the correctness and validity of data, which supports the efficient and stable work of Orvion blockchain system.

5.7 System service Model

Orvion gateway service model of function module is divided into blocks chain, service chain nodes, the block chain network, four parts form a complete set of tools.

1) Blockchain gateway

A "blockchain gateway" is designed as a lightweight gateway system that is typically deployed in a participant's network environment and provides features including:

- private key management: provide full localization of private key storage function;

Privacy: privacy protection is realized by using the end-to-end encryption methods;

- Protocol conversion: provides a lightweight HTTP Restful Service that ADAPTS to the blockchain node API of TCP protocol.

2) block service chain nodes

Application-oriented general functional components provided on the basis of the underlying blockchain network, with the purpose of providing the reuse of general functions, including:

- Application-oriented account management;
- account authentication and authorization;
- Object-oriented ledger data access framework;
- event notification mechanism;
- smart contract management.

3) Blockchain consensus network

A network composed of consensus nodes that ensures that transaction data is consistent across nodes based on P2P networks and consensus algorithms.

4) Tools

Set of supporting tools, including SDK, data management, installation and deployment tools, monitoring services.

5.8 continuous upgrade decentralized trading

In the future, Orvion will continue to upgrade the decentralization, and based on the decentralized and open and other excellent properties, through the exchange to build on the decentralized block chain platform way to remove middlemen, to provide users with a point-to-point ability to trade directly, Orvion in the future will be the ultimate form of an open brokerage model. Compared with CEX, Orvion is rooted in the excellent features of blockchain and has the following advantages:

1) Privacy protection

In the future, one of the main advantages of Orvion will be privacy and anonymity. In Orvion, user transaction transfer and account control was achieved by public and private key, no must be like the most centralized exchange, must carry out KYC can use all functions. In Orvion, users only need to create a user name and password, then import an existing wallet or create a new wallet to start trading, and provide users with 24/7 online services. This feature provides the perfect trading venue for users who value privacy and want to remain anonymous.

2) review

In the future, because Orvion does not exist a centralized monitoring and control business entities, which would ensure that its have stronger ability to resist review, which can effectively avoid any malicious shut down power party for exchange and censorship.

3) security

Although the safety factor varies from Orvion to Orvion due to design differences. In the future, Orvion wallet can pass an unmanaged type, in order to prevent hackers focused attacks to steal user funds centralized custody purse, which can provide transaction user funds with better security protection. In addition, the adoption of decentralized Orvion settlement mode, it can greatly reduce the possibility of hacker attacks through clearing link. Trading users can also through escrow procedure to ensure that the money in the process of trading in a fully managed state, in the worst case, even if Orvion stop running, the user can also wait for hosting program to stop after the recovery of control of the assets.

4) the generality and flexibility

In the future, as long as there are buy and sell orders in Orvion, users will theoretically be able to trade any asset without the need for the exchange to list coins or open the approval process for trading pairs, let alone there will be no listing fees. This convertible and transaction characteristics, for its business development has provided a broad space for development. For example, merchants issue "tokens" on the chain for promotional activities. If users cannot consume "tokens" in a short period of time, users can automatically exchange "tokens" with other mainstream currencies (such as BTC, ETH, EOS, etc.) through Orvion.

5) are less likely to be manipulated

Centralized exchange manipulation often maligned, such as: through brush forge volume; By closing token charge, restricting trade equivalent way to influence the trading behavior of users; And even manipulated the trading market by maliciously manipulating the price. Future, Orvion with order sheet not falsified by any person or body, which will be able to effectively reduce the possibility of transaction control.

Chapter 6 Global team and investor protection

6.1 operations team and technical team

Rick Fishbune, a graduate of the University of Minnesota, Twin Cities, is a former IBM Technical director responsible for the design, management and technical strategy of power architecture. He is a well-known expert in the field of reliable power design for servers worldwide. At present, lead the team to provide server cluster based on block chain technology and development of the mining system.

Richard Dobrow -- graduated from Virginia Tech with a PhD in computer science. He worked at IBM Computer Research Center. Through the paper "New Direction of Cryptography", I came into contact with digital cryptography, and verified the feasibility of distributed ledger through asymmetric encryption, elliptic curve algorithm and other means. At present, he has participated in the design of more than 10 kinds of digital currencies and found several security vulnerabilities. He is a trusted and well-known member of the digital currency community.

Justin Drake - Technology Development Manager and Software Engineer, graduated from the University of New Zealand with a Bachelor's degree. Large software and game development in New Zealand have more than 3 years experience, 2 years ago into the etheric lane. Currently responsible for blockchain source code development.

Samuel - graduated from Saarland University in Germany with a PhD in digitalization and financial clearing. Good at natural language processing. Chain project was involved in a number of blocks, including block chain with social networking, Internet and digital, block chain financial research projects, such as in Microsoft digital technology laboratory involved in technology research.

Sebastian - graduated from Harvard University and a master's degree in computer, social and pay design research direction. Big Data engineer, has been involved in several big data and social projects, and has extensive experience in fintech and social application development; In office pay social ground during the project, involved in multiple large data analysis.

Maaghul Clinton - block chain solutions to the password, the password startups, venture capital funds and international policy makers to provide advice. A director of the institute of private investment fund (PIFI). Previously, he worked with Cravath, Swain & Moore LLP (New York) and Goldman sachs (London). Now a financial adviser, 30 years of financial experience can help platform to understand the user needs.

Matthew Walther experts - the world's famous chain block application, global block chain technology business leader. He was director of American business council, assistant professor at Columbia University, financial research center researcher, is the world's financial wisdom technology application domain authority.

6.2 consultant team

Larry Rosenberger: with a master's degree in physics at the Massachusetts institute of technology and UC Berkeley's master's degree in engineering. From 1991 to 1999, served as FICO, President and chief executive of a company. During this time, FICO has experienced consecutive years of record growth, a rapidly increasing revenue from $31 million to $276 million. From 1999 to 2007, he led the research team FICO, forecast and decision analysis focus on the early stage of innovation, focus on helping the consumer market of enterprise customers to make better decisions.

Jimmy Clinton: a famous computer scientist, he is Pete rule optimization algorithm and decision engine software inventor. In 2002, established the Rules in Boston Power company, and as chief scientist. During this period, he further perfect Rete2 algorithm, with logic relationship between technology integration, and thus develop Rete3 algorithm.

Alston Reed: graduated from the university of Frankfurt, obtain a master's degree in economics. Of macro economics and new institutional economics have in-depth study, in IBM's Thomas Watson research center, engaged in the study of economics, and served as visiting professor of the department of economics at Princeton university, Japan's financial services agency securities and exchange surveillance commission and the Japanese currency exchange business innovation consultancy.

6.3 investors protection

To achieve the protection of investors Orvion platform, Orvion team joint top global community founded the investor protection fund. To avoid against block chain of the event, the design concept foundation will develop good governance structure and system, help manage community project general matters and privileges. Traditional foundation of the establishment of reference entities, functions of the committee will be set up, including strategic decision committee, the technical review committee, the compensation and nomination committee and the public relations committee, etc.

Strategy committee is the highest policy-making body foundation. Established its main objective is to discuss and solve in the process of community development faces important decision-making matters, including but not limited to:

- modify foundation governance structure;
- decisions on the formation and rotation of the Decision-making Committee;
- foundation secretary-general appointed and rotation resolution;

Appointment and removal, executive director, head of the commission and the function

- Review and amendment of the Foundation's charter;
- Orvion's strategic decisions;
- changes and upgrades of Orvion's core technologies;
- emergency decision-making and crisis management agenda, etc.

Strategic decisions, chairman of the committee members and foundation term for two years, non-renewable, chairman of the foundation more than two terms. Policymaking committee by community after the expiration of the term according to the consensus of the next generation of Orvion vote for representatives of the community, and then to choose the policymaking committee of core personnel, key personnel will represent Orvion were chosen as important and emergency decision-making, and credit investigation while in office, and public compensation.

The above matters, need policymaking committee by open ballot vote, each decision committee member has one vote vote, there are two votes for foundation chairman. Decisions made by the Decision-making Committee shall be approved by more than half of all the members of the committee in office. In addition, under any of the following circumstances, the executive director shall convene an interim meeting of the Decision-making Committee within 5 working days:

- when deemed necessary by the Secretary General of the Foundation;
- when proposed jointly by more than one third of the members of the decision-making Committee;

The meeting of the decision-making Committee shall be attended by the committee members themselves. If they are unable to attend the meeting for some reason, they may entrust another member of the committee in writing to attend the meeting on their behalf. Failure to appoint a representative shall be deemed to have waived his right to vote at such meeting.

Orvion has over 40 security staff, including veterans who assess perimeter risks and PHDS in cryptography who are engaged in the analysis of cryptographic attacks. Orvion there are hundreds of compliance personnel, they trade through the check to money laundering. Orvion also works extensively with law enforcement. Follow strict authentication procedures, in order to comply with the KYC (customer) and AML (anti money laundering), and other laws and regulations, and sent to tracking and monitoring and encryption assets from its website.

Orvion has established a project audit committee composed of well-known institutions and professionals. The committee consists of several functional departments to review the listing procedures, codes, white papers, legal compliance, finance and other aspects of the projects applying for listing. At the same time, Orvion introduced authoritative third-party rating agencies to independently review the listing projects. For the review of each link in the project listing transaction, Orvion introduces internationally renowned third-party authorities to jointly participate in the review to ensure that the review results are true, objective, reasonable and credible. In this way, users' investment security and income security are guaranteed.

In the future, Orvion will provide global quality chain block digital assets is more fair and transparent, credible, full circulation of compliance value discovery platform, for lovers to provide security and stability of the global digital assets, considerate service, reliable trading platform, to establish a world without borders and racial divide block chain finance ecological digital assets. At the same time, ecological applications continuously explore, create a new generation of digital assets trading business landscape. Build real distributed "digital ecosystem of financial services", to block chain technology and digital assets to a wider range of popularization, let more people share block chain technology and encryption assets wealth feast.

6.5 Development Plan

Orvion already went public in 2022, is currently in escalating, specifically:

1) Phase 1

The early work focuses on the improvement and upgrading of Orvion's trading system, underlying architecture and application functions. At the same time, the white paper was published and the market operation was started to realize the diversified ecological construction of Orvion.

- Orvion upgrade system fully launched, currency, OTC, contract and other international leading;

- Orvion has more than 15 million users, opening a global layout;

, in the United States, Japan, the united Arab emirates, Singapore, the United States, South Korea and other countries and regions operations center as the core, radiation all over the world, and actively promote the formation of global business network, in the end, business in more than 180 countries and regions around the world achieve the ground.

2) The second stage

Orvion every sector business, ecological form a perfect, various media platform for propaganda in the whole world, looking for more related businesses such as partners, to expand the platform's influence.

Full development platform, developing the underlying block chain technology, building technology system;

- Promote and optimize, and achieve viral marketing through joint community publicity;

Global publicity upgrade, combined the wraps line main home page, etc., raise awareness;

- Jointly built a model of community autonomy, initially contacted major global enterprises, and established preliminary strategic cooperation;

- Open financing plan, plan to introduce capital worldwide and obtain angel investment.

3) Phase three

Orvion integrate many fields and industries, global business synergy, become more competitive advantage for global professional user's innovative digital assets international standing. At the same time, continue to carry out the top and the world's largest community, project cooperation, actively promote Orvion international influence. To create a convenient, borderless, censors-resistant and private cryptocurrency trading and circulation system and financial infrastructure that serves billions of people around the world, and realize borderless and barrier-free asset circulation of digital currency.

Chapter 7 Disclaimer

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