

ROBOT

The first application of autonomous public
chain for decentralized data interaction

Whitepaper

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The Revelation

Since the blockchain came out in 2009, it has become the key technology leading the fourth industrial revolution, together with artificial intelligence, 3D printing, intelligent manufacturing and so on, with its unique advantages of decentralization, distrust, non tamper ability, high transparency and strong security. It has been widely concerned and favored by governments and people all over the world, setting off wave after wave of blockchain technology in the global scope Technology innovation and landing application upsurge.

At present, blockchain has been applied in many fields, such as virtual currency, anti-counterfeiting, supply chain, IOT, payment and exchange, registration and settlement. Especially with the deep penetration and integration of blockchain, IOT, smart contract and other technologies, "blockchain +" has become the first choice to solve the high-frequency, pain point and rigid demand problems of traditional industries because of its distributed node network, non tampering and enhanced trust mechanism of data on the chain, which can effectively and cost effectively solve the problem of trust between objects.

As the infrastructure of the value Internet, blockchain, together with big data, cloud computing, artificial intelligence and 5g, will form a generation of value Internet ecosystem. With the promotion and support of national policies, the blockchain industry will flourish in 2020. Among them, the industrial blockchain that emphasizes technology landing and traditional industries will flourish. On the one hand, it can establish an efficient value transfer mechanism, improve the liquidity of traditional assets through asset digitization, and then promote the digital transformation of traditional industries, while building the industry blockchain ecology.

It has been proved that the industrial blockchain landing application scenarios are currently mainly distributed in the application scenarios with high requirements for data trust, such as finance, justice, copyright, medical treatment, etc. in the future, satellite chain, identity chain, judicial chain, data chain, financial chain, government chain, etc. will have great opportunities for the landing blockchain industry in various fields and industries in the future.

Blockchain technology is a storage technology of transaction records. It stores transaction records permanently and can never be deleted after storage. Only new transactions can be added in order, so all transaction history can be recorded forever. This seemingly simple function description has profound meaning. It prompted us to rethink how to

create transactions, store data, and exchange assets. It is the starting point of a great change.

ROBOT , which is combined with artificial intelligence, has high performance such as high efficiency, security and scalability, which symbolizes wisdom and success. Based on the new global autonomous system public chain ecology, advanced economic reward destruction mechanism and high-speed development of artificial intelligence technology, the development of ROBOT will comprehensively present it.

Based on the new public link ecology and cryptography, ROBOT is able to establish reliable trust between point to point in the network, which can not only open information and protect privacy, but also make joint decisions and protect individual interests. The mechanism improves the efficiency of value interaction and reduces costs.

ROBOT aims to solve the business pain points and strive for technological innovation, perfect governance structure and wide application range. In the coming era of digital economy, ROBOT will integrate various cutting-edge technologies to build a decentralized application development platform supporting multiple industries.

As many countries have pointed out at the policy level, the integrated application of blockchain technology ROBOTs an important role in new technological innovation and industrial transformation. The

cutting-edge technology fields including AI, 5G, industrial Internet and Internet of things are the existence of new infrastructure.

Blockchain is a disruptive technology, but blockchain is not omnipotent. When blockchain technology is fully integrated with cloud computing, big data, artificial intelligence, Internet of things and other technologies, blockchain can really play its power.

This means that it is an irresistible trend to further accelerate the development of blockchain and AI industry in the future.

About ROBOT

Klaus Schwab, founder of Davos forum, asserts that blockchain, as an important achievement of the fourth industrial revolution after steam engine, electrification and computer, is expected to use blockchain technology to store 10% of global GDP by 2025. According to Gartner, a market research institution, the business based on blockchain will reach 100 billion US dollars in 2020. In addition to the financial industry, the manufacturing industry and supply chain management industry will bring a potential market of trillions of US dollars for blockchain. 2020 must be

the first year of blockchain industry. We can't just see blockchain as a revolution. It is more like a tsunami. It seems to be approaching slowly, but it will eventually destroy everything in its direction. In short, blockchain is the second great era in the Internet world, and the worldwide web, which rose in the 1990s, is the first era. This new era is mainly around the credit problem, so we can call it the credit era.

With the promotion and popularization of blockchain technology, the digital economy will become more authentic, and the economy and society will become more just and transparent. Its advantages in optimizing business processes, reducing operating costs, improving collaboration efficiency, etc., will play a huge role in the financial, supply chain, intellectual property, intelligent manufacturing, social welfare and other social fields.

ROBOT is the first encrypted digital currency with the purpose of protecting privacy. We have made a series of improvements on the basis of the concept of bitcoin, resulting in a decentralized and well anonymous cryptocurrency, which supports tamper proof real-time transactions, and has a point-to-point secondary network that can provide service reward system for Kurt network.

This new paradigm of value interaction created by ROBOT artificial intelligence blockchain is based on decentralization and "weak centralization", so that blockchain will further improve operation

efficiency and reduce a considerable part of its cost. Blockchain is a kind of technology system with multi-party common maintenance, storing data in block chain structure, using cryptography to ensure transmission and access security, and realizing data consistent storage, tamper free and non repudiation.

ROBOT adopts advanced economic reward destruction mechanism. At present, the global economic situation is grim, and inflation is likely to result in a large number of economic bubbles. ROBOT's economic reward and destruction mechanism can effectively guarantee the steady rise and circulation of the currency value. This will bring about a benign cycle for the development of ZDT public chain ecology and promote its prosperity. With the rapid development of science and technology, as the circulation warrant of the integration of blockchain and artificial intelligence, ROBOT will continue to explore the further combination of the characteristics of blockchain and artificial intelligence. Through the power of science and technology, we strive for a prosperous and brand-new ZDT public chain ecology and continuous innovation.

At present, the world is at the turning point of the fifth long wave, and the global economy is undergoing great changes. This turning point means that we are about to enter the new era of digital economy from the information age. From the perspective of technology, the core element of the digital economy is data, and the new generation of information

technology such as blockchain is just the best tool for processing data.

The main task is to maximize the value of data and form a data-based service mode, so as to promote the development of the digital economy.

Therefore, the development of the real economy under the docking of the blockchain is very important.

ROBOT'S Values and Beliefs

Does blockchain have faith? What is the real blockchain belief?

Faith is the belief that there is an essential existence beyond the world we see in front of us. No matter this essence is called "Tao", "emptiness", "God", "Brahman", "reason" or "transcendental", "entity", "life will", "absolute spirit" and "objective law", faith is the result of deep understanding of itself and continuous experience, query and reflection. Therefore We will not add a time limit to the belief. You will not hear someone say that I start to believe in Buddhism now. I plan to believe in Buddhism for three years first. If it doesn't work, I will believe in others. If someone says so, he is not a true believer, he is a real believer in pragmatism. The same "blockchain belief" is not true when the market is good, when the money is earned, those are not true. Those people really believe in utilitarianism.

Secondly, what is the belief of blockchain? If blockchain is just such a distributed IT technology, even if it is added with the financial attributes of "code is law", "programmable assets", "decentralization", "private property", "privacy protection" and the labels of economics and sociology, blockchain is not enough to become the carrier of belief, just

like we talk about Internet thinking but not Internet belief, no People say that cloud computing belief is the same as 5g belief, so what kind of future do we see and what kind of essence do we believe in before we join in it?

ROBOT holds the belief that the blockchain is just a point, and the decentralized technology (Trusted Computing) cluster is a surface. The future we see is that human beings can cooperate more openly, equally and freely across regional, time, race and other differences. Moreover, such cooperation can be formed and evolved in a bottom-up way. We believe that open organizations far from the equilibrium state can go through hypercycle Synergy and mutation process reduce entropy and form order in the fluctuation. We believe that such an organization will become a new form of human cooperation in the present and future with the unprecedented improvement of human intelligence development level. Blockchain belief is self-organized belief, which is the belief of liberal humanism and ultimately the belief of human destiny community. Wang chain technology was born under such a belief. The transformation of blockchain industry and human cooperation has just begun. We shoulder our mission and work hard to practice. No matter what difficulties we will encounter in the future, we are confident because we see the future. "This is not the end, or even the beginning of the end, but perhaps the end of the beginning." Churchill's words on the victory of the battle of alaman

at the turning point of World War II are very suitable to describe the current blockchain industry and encourage you.

Justice, equality, freedom and democracy have always been the primary values of the social system, just as truth is the primary value of the ideological system. Everyone has the right based on justice, equality, freedom and democracy, which cannot be violated even in the name of the overall interests of the society.

Any set of laws or systems, no matter how efficient and organized, it must be abolished or reformed as long as they are unjust. Since ancient times, people of different societies or classes have different interpretations of the word justice. However, no matter whether the interpretation of justice is accurate or not, no matter how the times change or how the society changes, justice has always been the value that human civilization has never stopped pursuing since its inception. Justice is also our ultimate vision of creating a just universe. To this end, we will strive to practice our understanding of justice in the just universe and live up to the expectations of all people.

With freedom, people can think freely, express their ideas fully and put them into practice. In this way, we will exert our potential and wisdom to the limit and make the greatest contribution to the society. Because of equality, class differences and gaps will disappear. The friction between people, people and society will be minimized, people

will be connected to each other, the most efficient to achieve unity and cooperation and fair distribution of results. Because of democracy, the power to change and evolve rules and institutions will be placed in the hands of the masses, and everyone will have the opportunity to change the status quo and determine the direction forward with the minds of those who hold the same views. We believe that on the cornerstones of freedom, equality and democracy, the efficiency with which people create wealth will be maximized, and the same solid material foundation will be laid for the realization of the vision. Now we have clearly defined the philosophy and vision of ROBOT. To make them a reality, we need to rely on cutting-edge blockchain technology. Because blockchain technology solves the problem of trust, human beings can establish a higher level of common knowledge, which will bring infinite imagination to the development of society and system. The decentralization and non-counterfeiting brought by blockchain technology also avoids various problems in the traditional centralized society, such as non-disclosure, opacity, fraud, high concentration of power and so on. Therefore, by relying on the block chain technology, we can realize our vision in ROBOT and build ROBOT into a wealth of freedom, equality and democracy.

Redefine Blockchain

According to Yuan Yuming, President of Huobi blockchain Research Institute, the number of global blockchain practitioners is about 20 million, and China has only a few million users. The global penetration rate of blockchain users is 0.3%, and the Internet penetration rate is 0.5%. There is a very large room for improvement. It can be seen that the blockchain industry is still in a very early stage. If you are lucky enough to participate in it, congratulations on your chance to become a successful gold digger in the wilderness era.

At present, the block chain also belongs to the blue ocean with broad prospects. Quite a lot of people have not realized the value generated by the block chain real economy. Just like WeChat and Alipay, similar killer applications once penetrated into every corner of people's life, it will build a brand new mode of economic cooperation.

The birth of blockchain is quite legendary, and a series of products triggered by it: digital currency, smart contract, distributed governance, etc. have also inspired financial and social changes in the global field.

Due to the characteristics of disintermediation, openness, non tamperability and programmability, blockchain has attracted the attention of Wall Street in the United States. 44 international consortiums and multinational banks have formed R3 companies to conduct joint experiments on blockchain technology. Silicon Valley, the paradise of technology entrepreneurs, is also in the Craze: in just a few years, only the top 10 leading start-ups in the field of blockchain in the United States have gained risks The investment amount has exceeded 1 billion US dollars; China is also experiencing the blockchain revolution.

ROBOT was born in this wave. Every preacher who holds ROBOT is a follower of freedom, a believer of freedom, and a watchman of freedom at the same time. Every redefining revolution is doomed to be rough, and there must be a lot of resistance in the Jianghu. In the Jianghu of ROBOT, you will not be lonely any more, and ROBOT will do its best to illuminate the road ahead for you. No matter how we improve the social and economic system, it can not be fundamentally solved. In this case, the emergence of blockchain opens a window of hope, which is an unprecedented challenge for the centralized financial system and organization. A truly disruptive business practice, as well as the blockchain technology, the reshaping of the Internet!

The future society will be a whole connected by block chain. ROBOT adopts the decentralized design principle to reach the consensus of wealth,

speech, innovation, network and even ideological progress. It relies on the wisdom of all people to realize the freedom of the whole human society, which is the core concept of ROBOT.

The emergence of blockchain technology is the progress of human civilization. Only by building a higher level of consensus can we create a higher value. Only in this way can we completely eliminate the contradictions and conflicts in social development and push the distribution of wealth to a more equitable and just path. The core value of blockchain is that it solves our trust problem through technical means and reaches a decentralized consensus. From the perspective of human development, the emergence of blockchain technology is the embodiment of human free will.

In this free community, everyone is its master, and the world will be truly free. Therefore, once blockchain technology solves the problem of trust between individuals, we can create a more autonomous, free and democratic decentralized financial system. For people in a centralized world, the privacy and security of our property, the value and control of our property have been passive, we do not really control our wealth, which will lead to a series of social problems and conflicts.

ROBOT will redefine and distribute global wealth in a decentralized way! This is a great migration from centralized wealth consensus to decentralized wealth consensus. ROBOT is committed to providing each

of us and even each generation with more equal, equal and private wealth autonomy. ROBOT will also realize complete freedom of speech and wealth.

1. Background Exposition

Since the blockchain was promoted to the national strategic level in October 2019, governments at all levels and all sectors of production, education and research have started to speak for the blockchain and actively put it into action. At present, the industry has basically reached a consensus: 2020 must be the first year of blockchain industry.

In essence, blockchain is not only the change of production efficiency, but also the first change of production relationship in human history. It is not only a technological revolution, but also a far-reaching business revolution. It will reconstruct the modern business logic and redefine the production relationship, which will have an inestimable impact on the various elements of the existing economic system. Throughout the long history of human society, every milestone progress is accompanied by technological breakthroughs, including agricultural revolution, industrial

revolution, information revolution, and the blockchain revolution that lays the foundation of the future value of the Internet.

Blockchain technology will be a revolution, leading to the era of Internet credit. At present, the technology tsunami is still in the period of silence before the outbreak. When the blockchain technology is really mature, the energy it contains may change the financial order for thousands of years, completely destroy the trust mechanism built by the authority center, and form a new trust system composed of numerous equal entities. In the new trust system, you and I are also a part of it. It has to be said that the change is coming.

The dominant position of the Internet Centered construction world is being challenged. In the context of big data singularity approaching and large-scale computing power improving, the Internet is facing the transition stage from "information is right" to "computing is right", while the world economic structure and right migration are more composed of bit information. The integration of blockchain and various cutting-edge technologies will contribute to this.

This new paradigm of value interaction created by blockchain is based on decentralization and "weak centralization", so that blockchain will further improve its operation efficiency and reduce a considerable part of its cost. Blockchain is a kind of technology system with multi-party common maintenance, storing data in block chain structure,

using cryptography to ensure the security of transmission and access, and can realize consistent storage of data, which cannot be tampered with or denied.

Blockchain is a kind of back-end infrastructure. In theory, it is a computer system with unlimited computing power and no downtime. Once started, it will never stop, and the elastic capacity of the whole system is almost infinite. The banking system will crash, and the cloud computing service will crash, but the real blockchain system will never crash, and any single point of failure is irrelevant.

The essence of the Internet is to get rid of many intermediate agents. Now, blockchain will change the lives of more intermediate agents. Of course, it will also create some new links. This is the same as the world wide web. The current agents should seriously think about what kind of impact they will receive and how to take a share in the "decentralized spring tide" race.

The global attention to blockchain continues to heat up. The world is seriously studying, analyzing and predicting the future of blockchain. Researchers, entrepreneurs and enterprises are all thinking about the future of blockchain. Major economies in the world begin to study the blockchain technology and development trend from the national strategic level. In the future, these information assets will not only be used by the existing daily work and life, but also become the provider of "data food"

such as artificial intelligence and Internet of things devices. Based on the features of the block chain, it will fully integrate with cutting-edge technologies such as 5G, AI, big data and cloud computing to make a perfect combination. Aiming at solving the pain points of the industry, ROBOT will put various cutting-edge technologies into practical application to benefit the public and the society.

2.ROBOT's Procedural Requirements

2. 1 Project Elaboration

ROBOT is a new and open blockchain platform, which allows anyone to build and use decentralized applications running through blockchain technology in the platform. Like bitcoin, ROBOT is not controlled or owned by anyone - it's an open source project created by many people around the world. Different from bitcoin protocol, ROBOT is very flexible and adaptable. It's very easy to create new applications on the ROBOT platform. With the release of homestead, anyone can use the applications on the platform safely.

The difference between the public blockchain and the license blockchain mainly embodies two aspects: the attitude towards the node

and the scope of trust. In the public block chain, node access threshold is very low, we generally consider that each node is not credible, so we need to prove some mechanism to select the entry node, and the nodes on the list of license chain only authorized access to, and can set up a strict firewall. It is for the public trust mechanism of public blockchain, a widerange of public participation of all blockchain bookkeeping and the use scope of trust, and the trust chain permission scope only exists between the permit node, a relatively small range.

Some blockchain platforms strive to support operational decentralization applications. Specific applications such as Bitshares decentralization exchange (2014) and Steem social media platform (2016) have become a blockchain heavily used by thousands of active users every day.

Improving performance to handle thousands of transactions per second, eliminating fees and providing a user experience comparable to the existing centralized services. That's why they can do it. The existing blockchain platform bears a lot of transaction fees and limited computable ability, which hinders the large-scale application of blockchain technology.

Therefore,the blockchain is still growing. If we want to build a well-equipped value conversion network and a blockchain ecosystem with rich upper applications, we still need to make great efforts.

2. 2 ROBOT's Application Design

2.2.1 Free Usage

Application developers need the flexibility to offer users free services; Users should not have to pay in order to use the platform or benefit from its services. A blockchain platform that is free to use for users will likely gain more widespread adoption. Developers and businesses can then create effective monetization strategies.

2.2.2 Support Millions of Users

Competing with businesses such as eBay, Uber, AirBnB, and Facebook, require blockchain technology capable of handling tens of millions of active daily users. In certain cases, an application may not work unless a critical mass of users is reached and therefore a platform that can handle very large numbers of users is paramount.

2.2.3 Easy Upgrades and Bug Recovery

Businesses building blockchain based applications need the flexibility to enhance their applications with new features.

All non-trivial software is subject to bugs, even with the most rigorous of formal verification. The platform must be robust enough to fix bugs when they inevitably occur.

2.2.4 Sequential Performance

There are some applications that just cannot be implemented with parallel algorithms due to sequentially dependent steps. Applications such as exchanges need enough sequential performance to handle high volumes. Therefore, the platform should support fast sequential performance.

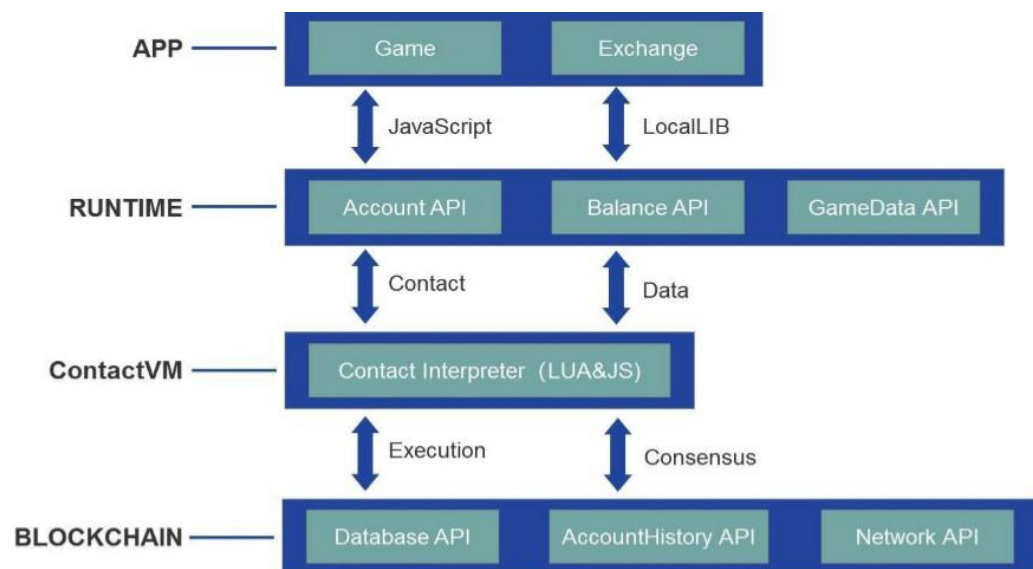
2.2.5 Low Latency

A good user experience demands reliable feedback with a delay of no more than a few seconds. Longer delays frustrate users and make applications built on a blockchain less competitive with existing non-blockchain alternatives. The platform should support low latency of transactions.

2.2.6 Parallel Performance

Large scale applications need to divide the workload across multiple CPUs and computers.

2.3 ROBOT's Operational Framework



2. 4 Consensus Algorithm (DPOS)

ROBOT software utilizes the only known decentralized consensus algorithm proven capable of meeting the performance requirements of applications on the blockchain, Delegated Proof of Stake (DPOS). Under this algorithm, those who hold tokens on a blockchain adopting the ROBOT software may select block producers through a continuous approval voting system. Anyone may choose to participate in block production and will be given an opportunity to produce blocks, provided they can persuade token holders to vote for them.

The ROBOT software enables blocks to be produced exactly every 0.5 second and exactly one producer is authorized to produce a block at any given point in time. If the block is not produced at the scheduled time, then the block for that time slot is skipped. When one or more blocks are skipped, there is a 0.5 or more second gap in the blockchain.

Blocks are produced in rounds of 126 (6 blocks each, times 21 producers). At the start of each round 21 unique block producers are chosen by preference of votes cast by token holders. The selected producers are scheduled in an order agreed upon by 15 or more producers.

If a producer misses a block and has not produced any block within the last 24 hours they are removed from consideration until they notify

the blockchain of their intention to start producing blocks again. This ensures the network operates smoothly by minimizing the number of blocks missed by not scheduling producers who are proven to be unreliable.

Under normal conditions a DPOS blockchain does not experience any forks because, rather than compete, the block producers cooperate to produce blocks. In the event there is a fork, consensus will automatically switch to the longest chain. This method works because the rate at which blocks are added to a blockchain fork is directly correlated to the percentage of block producers that share the same consensus. In other words, a blockchain fork with more producers on it will grow in length faster than one with fewer producers, because the fork with more producers will experience fewer missed blocks.

Furthermore, no block producer should be producing blocks on two forks at the same time. A block producer caught doing this will likely be voted out. Cryptographic evidence of such double-production may also be used to automatically remove abusers.

Byzantine Fault Tolerance is added to traditional DPOS by allowing all producers to sign all blocks so long as no producer signs two blocks with the same timestamp or the same block height. Once 15 producers have signed a block the block is deemed irreversible. Any byzantine producer would have to generate cryptographic evidence of their treason

by signing two blocks with the same timestamp or blockheight. Under this model a irreversible consensus should be reachable within 1 second.

2. 5 Asset Sharing

Blockchain technology is a kind of distributed database which is guaranteed by the chain data structure under the consensus mechanism. Its essence is to sacrifice processing performance for data security and consistency. Blockchain can realize data autonomy, privacy protection and transaction transparency. At the same time, it also realizes the authenticity and accuracy of uplink data, thus establishing the trust relationship between participants.

The value of data is to provide reference for decision-making. Blockchain technology provides an effective technical means to solve the problem of information asymmetry and lack of information dimension. And it solves how to obtain data information related to your business and protect your data privacy.

Through blockchain technology, data validation and compliance transfer can be realized. Therefore, data can become a form of asset expression. A revolutionary blockchain storm is being quietly triggered by the industry. It has also brought changes to many sub areas. Its birth and development provides an effective technical means for data

authenticity. At the same time, it also provides a new solution for efficient data transmission.

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2.6 ROBOT's Distribution Mechanism

The total number of ROBOT issued was 1.9 billion, 80% of which were destroyed on the chain, and 380 million were finally distributed.

On chain destruction principle

The ROBOT stored in the wallet with a value of 100USDT will be destroyed in the DAPP chain. The destruction mechanism of the ROBOT chain will be released and tradable after destroying 80% of the wallet in half a year.

3 ROBOT's Features

3. 1 Support Inter Blockchain

Homogeneous, heterogeneous assets and smart contracts in ROBOT are separated and predictable. There will be a large number of ongoing transactions in ROBOT's network. It is necessary to reduce the operation cost of asset analysis and circulation as much as possible. In order to facilitate crosschain mapping of heterogeneous assets. And 'Separation of assets and contracts' is a safer design.

At Inter Blockchain implementation, ROBOT adopts COSMOS technology. If consensus mechanism is the soul of blockchain. So for blockchain, especially alliance chain and private chain, Inter Blockchain technology is the key to realize value network. It is the way to save the alliance chain from the scattered isolated islands. It is also a bridge to expand and connect the block chain outward.

ROBOT will realize multi-chain communication through the following technologies

- Notary schemes
- Sidechains/relays

- Hash-locking
- Distributed private key control

Inter Blockchain asset exchange and asset transfer are of great significance. Nowadays, the speed of network operation is low and the handling fee is high. Through Inter Blockchain asset transfer, we can build a more efficient and low-cost network. The direct result of cross-border asset transfer is the realization of Inter Blockchain smart contracts. Since all assets have been transferred to the same chain, the implementation of smart contracts is very easy.

3. 2 Wallet and Blockchain Browse

ROBOT provides digital asset wallets to a variety of operating platforms, including Android, IOS and Windows. Ensure that users in the mainstream operating environment can participate in asset circulation. Through the digital asset wallet, users can store all digital assets and ERC20 assets imported through the acceptance gateway. This is more convenient for the game gold coins to be sold on the circulation platform. The wallet will begin to be embedded in the form of SDK in many applications of the chain-forming ecosphere. ROBOT provides a payment

method and digital asset storage means interoperable with the block-chain world.

In addition, ROBOT encrypts the digital asset wallet at the financial level and ensures the security of the digital property stored in the wallet by combining the KYC authentication service of the operating platform. When the main line of ROBOT public chain is on line, the function of blockchain browser is provided directly in wallet. Block chain browser is the main window to browse blockchain information. The contents recorded in each block can be consulted from the Blockchain Browser.

3. 3 ROBOT's Technical Target

The target of ROBOT is to create a unique and advanced blockchain technology by combining some proven best technologies, such as cryptonote protocol and smart contract, to enhance reliability, privacy, security, availability and portability, so as to achieve the creation of a private smart contract. Blockchain is an open distributed ledger, which can effectively record transactions between the two sides in a verifiable and permanent way.

ROBOT will create a complete multi platform operating environment. Provide convenient and perfect ecological environment for developers to the greatest extent. Users will have ownership of the asset. The application environment will be as fair and open as possible.

In order to achieve the above objectives, ROBOT will provide the following technical functions, including but not limited to:

- Multi platform operation environment with blockchain system interoperability interface

- High speed consensus based on DPOS improved and delegated witness model

- High speed smart contract virtual machine

- Blockchain mapping gateway supporting homogeneous and heterogeneous digital assets

- Consolidate multiple operations to ensure transaction atomicity

- Consensus tasks that support grammar level

- Small range consensus and random number

- Transaction mechanism to support entrustment

- Support minimum on chain transaction verification cycle

Support precise timer on the chain, standby mode, contract mode with heartbeat support

- Trusted stochastic processes in blockchain networks

3.4 Smart Contract System

Smart contract system represented by Ethereum can not be modified once the definition is released, and it is difficult to meet the needs of contract system for logic updating and vulnerability repair of game in the chain. Therefore, we design an iteratively updated contract system to meet the needs of scenarios such as game contract updating and vulnerability repair. When the contract developer publishes the defined contract to the chain network, the system allows users with developer privileges to update the contract using the modified contract. Although the old contract still exists, the content of the contract address on the chain will be covered by the new contract data.

ROBOT provides developers with a visual contract editor. The editor simplifies the design from a user-friendly point of view, and presents the functions and methods commonly used in contracts to users in a graphical

way. Even users who do not have scripting skills can easily edit contracts according to their needs. In addition, contract editors provide more detailed advanced editing patterns for advanced users with scripting capabilities. Provide users with ways to give full ROBOT.

Visual editor is an editing tool that assists users to complete rapid development with graphical interface. Taking the keypad wizard as an example, the software presents most of the commonly used methods in the toolbar in a shortcut way. Users can write and insert a script code by simple drag-and-drop, click and fill in parameters.

3.5 Role Based Permission Management

Permission management involves determining whether or not a message is properly authorized. The simplest form of permission management is checking that a transaction has the required signatures, but this implies that required signatures are already known. Generally authority is bound to individuals or groups of individuals and is often compartmentalized. The ROBOT software provides a declarative permission management system that gives accounts fine grained and high level control over who can do what and when.

It is critical that authentication and permission management be standardized and separate from the business logic of the application. This

enables tools to be developed to manage permissions in a general purpose manner and also provide significant opportunities for performance optimization.

Every account may be controlled by any weighted combination of other accounts and private keys. This creates a hierarchical authority structure that reflects how permissions are organized in reality, and makes multi-user control over funds easier than ever. Multi-user control is the single biggest contributor to security, and, when used properly, it can greatly eliminate the risk of theft due to hacking.

ROBOT software allows accounts can define what combination of keys and/or other accounts can send a particular message type to another account. For example, it is possible to have one key for a user's social media account and another for access to the exchange. It is even possible to give other accounts permission to act on behalf of a user's account without assigning them keys.

3.6 Concealment Technology

In the ROBOT block browser, you can't see the output total, transaction flow and other information; the only thing you can see is the height of a block.

Briefly speaking the concealment technology of ROBOT.

1. Hide the address of the originator of the transfer (ring signature technology)
2. Hide transfer recipient's address (mix up address)
3. Hidden trading volume (ring secret technology)

When using ring signature to hide the account address of the initiator, Ke Lin Coin also makes many identical false transactions to confuse the transaction situation. At the same time, when calling the receiver's account, it is not directly typed into the receiver's account, but typed into a one-time address temporarily generated by the system. No one knows who the money here is. Only when the receiver uses the private key to verify, the receiver can use the money.

The hidden transaction amount is automatically covered by the system, so that external observers cannot know the actual transaction amount.

But here in ROBOT, anonymity is only one of them, and decentralization is his other big goal.

Because bitcoin's algorithm was cracked, ASIC miner made mining bullies appear. Nakamoto's "calculation power voting" was broken, and ASIC miner has become a nightmare of POW. Thanks to the characteristics of CryptoNote algorithm, Kurt has no professional miner for a long time. Until recently, bitcoin cracked its algorithm and

manufactured ant X3 miner. Monroe chose hard fork to express The determination to fight against mine hegemony and the centralization of computing power.

4 ROBOT's Resource Usage

4. 1 Token Model and Resource Usage

All blockchains are resource constrained and require a system to prevent abuse. With the ROBOT software, there are three broad classes of resources that are consumed by applications:

Bandwidth and Log Storage (Disk)

Computation and Computational Backlog (CPU)

State Storage (RAM)

Bandwidth and computation have two components, instantaneous usage and long-term usage. A blockchain maintains a log of all messages and this log is ultimately stored and downloaded by all full nodes. With the log of messages it is possible to reconstruct the state of all applications.

The computational debt is calculations that must be performed to regenerate state from the message log. If the computational debt grows too large then it becomes necessary to take snapshots of the blockchain's state and discard the blockchain's history. If computational debt grows too quickly then it may take 6 months to replay 1 year worth of transactions. It is critical, therefore, that the computational debt be carefully managed.

Blockchain state storage is information that is accessible from application logic. It includes information such as order books and account balances. If the state is never read by the application then it should not be stored. For example, blog post content and comments are not read by application logic so they should not be stored in the blockchain's state. Meanwhile the existence of a post/comment, the number of votes, and other properties do get stored as part of the blockchain's state.

Block producers publish their available capacity for bandwidth, computation, and state. The ROBOT software allows each account to consume a percentage of the available capacity proportional to the amount of tokens held in a 3-day staking contract. For example, if a blockchain based on the ROBOT software is launched and if an account holds 1% of the total tokens distributable pursuant to that blockchain, then that account has the potential to utilize 1% of the state storage capacity.

Using the ROBOT software, bandwidth and computational capacity are allocated on a fractional reserve basis because they are transient (unused capacity cannot be saved for future use). The algorithm used by ROBOT is similar to the algorithm used by Steem to rate-limit bandwidth usage.

4. 2 Messages and Transactions

"Transaction" in ROBOT refers to a signed packet that stores messages sent from an external account. The transaction contains the recipient of the message, the signature used to confirm the sender, the ROBOT account balance, the data to be sent, and two values called startgas and gasprice. In order to prevent the exponential explosion and infinite loop of code, each transaction needs to limit the calculation steps triggered by executing code - including the initial message and all messages triggered during execution. Start gas is the limit, and gas price is the cost of the miner for each calculation step. If during the execution of the transaction, "the fuel is used up", all status changes will be restored to the original status, but the transaction costs already paid will not be recovered. If fuel remains at the time of execution of the transaction suspension, the fuel will be returned to the sender. There are separate

transaction types and corresponding message types for contract creation; the address of contract is calculated based on the random number of account number and hash of transaction data.

An important consequence of the messaging mechanism is that ROBOT's "first class citizen" property - contracts have the same rights as external accounts, including the right to send messages and create other contracts. This allows the contract to ROBOT multiple different roles at the same time, for example, the user can make a member of a decentralized organization (a contract) become an intermediary account (another contract), a paranoid individual using a customized quantum proof based Lambert signature (the third contract) and an account using five private keys to ensure security (the fourth contract to provide intermediary services. The strength of the ROBOT platform is that decentralized organization and agency contracts do not need to care about the type of accounts of each participant in the contract.

4. 3 Separate Authorization and Application

Verify that the internal consistency of the message is read-only and does not require access to the blockchain state. This means that it can be executed with maximum concurrency. Verify that prerequisites, such as

the number of balances needed, are read-only and therefore benefit from parallel computing. Only write permission is required to change the application state and each application must be executed in sequence. That is, verify that the message is internally consistent; verify that all prerequisites are valid; modify the application state.

Authentication is a read-only process to verify that messages can be used. The application is actually working. Both need to be calculated at the same time, but once the message is included in the block, it no longer needs to perform message verification.

In addition, the database state is defined through a similar schema. This is to ensure that all applications store data that can be converted to human-readable JSON using efficient binaries for storage and control.

4. 4 Real-time Information Channel

ROBOT's applications of asset sharing, payment, reward and game require high-speed data communication. It is extremely unreasonable to use blocks to process this information. One is that these information are memory data and do not require block persistence. Second, these information require lower network latency. It takes about 3 seconds to get the chain out. Obviously, the demand cannot be met. Chain-tochain is supported by real-time information channels. Users can create

information channels. Relevant business data is broadcasted and interacted through channel groups. Information channel services are provided by ordinary nodes. Nodes get the corresponding cost return according to the total amount of data packets. The input of parameters related to logical contracts can only be received through information channels. Channel and client support a variety of SOCKET protocols, support binary and text data transmission.

- Information Channel Creation

Developers can create information channels by calling APIs related to smart contracts. When creating information channels, developers need to specify some features of information channels: maximum number of connections, lifecycle, transmission network type (http, socket, websocket, UDP / tcp), and so on.

- Sleeping of Information Channel

Without new input for more than a certain period of time, the information channel will be dormant. When a new connection comes in, it wakes up the information channel. This saves node server resources.

- Destruction of Information Channel

The information channel lifetime is specified by the developer at the time of creation. When the node exceeds its lifecycle and is in a dormant state, the information channel will be destroyed by the node. For saving resources.

4.5 Blockchain in 5G Era

Nowadays, the most expected thing is the arrival of 5G era. The three major operators are engaged in a fierce competition, including major mobile phone manufacturers are also actively embracing a new era of communication.

Behind this battle of commercial competition, some people have also predicted the blockchain in 2020, saying that the best development in the coming year is connectivity.

The Internet has spread information, but not made it valuable. If the arrival of 5G is the highway of technological development, then blockchain is the cornerstone of building this highway. The global economy has entered A new era of technological innovation driven by D (big data), B (blockchain), A (artificial intelligence), S (security services), I (Internet of things), C (cloud computing) and 5G. ROBOT makes full use of block chain technology to help traditional industries break through constraints. On the other hand, as a fusion device, it promotes technology to technology, enterprise to enterprise and industry to industry to enter deeper cross-border integration.

Blockchain, cloud computing, 5g communication, artificial intelligence and other information technologies are organically integrated to form an important infrastructure of digital economy and smart society. These new infrastructures are bound to profoundly influence and reshape our economic and financial organizations and social governance models. This year, blockchain is expected to walk out of the halo of "bitcoin", stay away from the fanatical hype, start from the bottom of the down-to-earth, and start climbing the long slope of the industrial Internet.

5G brings rich application scenarios to the blockchain. The interconnection ability and end-to-end transaction ability of everything match the computing model of the blockchain, which makes it easier to realize P2P value exchange. At the same time, the blockchain also meets the data protection requirements in 5G application scenarios.

However, the blockchain technology is far from mature, and there are a lot of challenging problems to be solved.

4.6 Future Planning(2020-2024)

2020:

May.25,the main network v1.0 was launched, and ROBOT wallet v1.0 was launched.

Jun.10,ROBOT cross border e-commerce project launched.

Jun.20,determine requirements and complete product prototype.

Jul.1,ROBOT e-commerce beta Online.

Jul.15,ROBOT cross border e-commerce v1.0 goes online.

Aug. 1,ROBOT anonymous chat system project launch.

Aug.15,determine product requirements and complete product prototype.

Oct.1,ROBOT anonymous chat system beta Online.

Nov.1,ROBOT anonymous chat system official version v1.0 goes online.

Nov.10, ROBOT's decentralized 12 constellations game project starts.

Dec.1,complete the product prototype.

2021:

Jan.1, ROBOT 12 constellation game beta Online.

Jan.15,ROBOT 12 constellation official version goes online.

Feb.1,launch of main network R & D v2.0.

Jun.28,main network v 2.0 goes online.

Jul.1,ROBOT wallet v2.0 start.

Aug.1,complete ROBOT wallet v2.0 product prototype.

Oct.15,ROBOT wallet v2.0 beta Online.

Nov.1,ROBOT wallet v2.0 goes online.

2022:

Jan.10, ROBOT decentralized biochemical crisis large 3D game project

launched.

May.1, identify requirements and product prototypes.

2023:

Jan.1, ROBOT biochemical crisis internal beta Online.

Oct.1, ROBOT biochemical crisis public beta Online.

2024:

Jan.1, V3.0 R & D start of main network.

Nov.28, main network V3.0 goes online

5 Conclusion

ROBOT is designed from the experience and best practice of proof concept, which represents the important progress of blockchain technology. ROBOT project is a part of the great blueprint of the global scalable blockchain society, which makes application decentralization easy to publish and manage.

ROBOT goes further than pure currency. Its protocols and decentralized applications built around decentralized storage, decentralized computing and decentralized forecasting markets, as well as

dozens of similar concepts, have the potential to fundamentally improve the efficiency of the computing industry, and provide strong support for other P2P protocols by adding economic layers for the first time. Finally, there will be a large number of applications that have nothing to do with money.

The concept of arbitrary state transition realized by ROBOT provides a platform with unique potential. Unlike closed, single-purpose protocols designed for such purposes as data storage, gambling, or finance, ROBOT is designed to be open. And we believe it is ideally suited to serve as a base layer for the very large number of financial and non-financial protocols that will emerge in the coming years.

Blockchain will not die, it will become a fusion carrier of emerging technologies such as artificial intelligence and Internet of things, and it will be the most potential and commercial value field of information industry in the next few years.

6 Coming Soon to the Exchange White List

Name of exchange	Link address
BigONE	https://big.one
BiKi	https://www.biki.com
CoinTiger	https://www.cointiger.com
AEX	https://www.aex.plus
ZBG	https://www.zbg.com
HitBTC	https://www.hitbtc.com
Huobi	https://www.huobi.com
OCX	https://www.ocx.app
Gate.io	https://www.gateio.news
Liquid	https://www.liquid.com