

voc

Be the master of soul and freedom

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1

Industry Background

Gambling is an intricate industry made up of relationships and finance. It can make you a millionaire instantly, but also can make you lose everything overnight. The industry is full of cheating and black tech, because of which people will lose the hope of making a fortune from little money by luck and the real meaning of entertainment.

Despite of the unfairness, secrecy and opacity, hundreds of millions of people around the world are still involved in gambling industry. The dream of making great fortune overnight is always so beautiful, so obsessive. Gambling should be regarded as the highest level of humanity game.

According to a study by Sportradar, a British sports data analysis institution, the global gambling industry has an annual trillion-dollar market. The market size reached \$1,438.6 billion in 2017 and continued to grow annually. Of the whole industry, betting is mainly concentrated in Asia. Singapore, Hong Kong, the Philippines are the major concentration areas for gambling organizations, Sportradar's report shows.

At present, the major powers in the world have all carried out policies to control gambling industry, which has been regulated to different extent in different countries. However, this has led to the appearance of many darker gambling platforms filled with all kinds of lure and fraud. Such despicable situation is nibbling away the market share of the formal gambling industry. In order to obtain greater market share, the leading players of the industry are thinking about a way out, and they finally find the answer until the emergence of blockchain.

The leaders in gambling industry have established a global online entertainment foundation in conjunction with a number of large-scale gambling platforms. After several years of development, the offline entities have entered a mature stage and cannot make a qualitative leap on the number of participants. In order to make users more convenient and faster to log in and out, the foundation is thinking about how to integrate online users into the entire user system. The number of online users is more, the advertising arrival rate is higher. Thus, the overall operation and marketing costs are greatly reduced. The operational content does not have significant changes while costs are effectively controlled. Therefore, a decentralized gambling project VOC was born.

2

Industry Analysis

2.1 Industry Data

In 2004, the data shows that the gambling market of the United States alone reached \$78.6 billion, of which casino revenue was \$28.7 billion, accounting for 36.5% of the total revenue; lottery revenue was \$19.9 billion, accounting for 25.4%; Indian tribal casino revenue was \$16.8 billion, accounting for 21.4%; online gambling revenue was \$5.7 billion, accounting for 7.2%. A total of 445 commercial casinos were opened in 14 states in the United States, paying \$4.74 billion in taxes. However in 2017, the global gambling has become a \$1,438.6 billion industry, which is dozens of times of the number in 2004, according to the data from Sportradar's study.

The fast development of technology and network may play a more significant role in boosting the industry. Especially, the problems of time and geographical restrictions will be well solved. Previously, if a user has entertainment needs, he or she has to go to a designated location, within a specified time window. These factors make it difficult for users to get started, especially for beginners.

While entertainment-type gambling can't work, the above problems can be well solved by the development of blockchain technology today:

1. User's deposit and withdrawal problems will be solved;
2. Trading location and time are no longer limited;
3. All the tricks in gambling will be turned into open, transparent and fair competition.

In the next 3 to 5 years, the gambling and entertainment industry will usher in an unprecedented boom driven by new technologies.

2.2 Market Expectation

At present, the traditional offline gambling industry faces many problems, such as government regulation, threats from dark and evil forces, distance, time and so forth. At the same time, the number of users who actually go to the gambling hall is limited. Currently, with network and smart devices growing rapidly, people need more free ways for entertainment.

The main problems for traditional gambling industry include:

1. User's authenticity issue. When we participate in gambling or a quiz on traditionally centralized platforms, we don't know if the other party is a real user. Maybe it's just a robot set up by the platform, or maybe there is no rival at all.
2. Fairness issues. One of the most difficult problems traditional gambling system faces is the issue of fairness. Online gambling system works through codes. The developers can change codes in the background to manipulate game results. Sometimes, what the users see in the game is not what's actually going on behind the game. This has become a serious problem when the online system is operating.
3. Asset security issues. Online gambling usually requires a platform to serve as a venue for match-making tradeoff. When users enter the platform, their assets will be recharged; when they leave, their currency will be exchanged. Among the whole process, the most critical role is the platform. Both the entry and exit of users' assets need to be operated through the platform. In general, the process of capital inflow is more guaranteed than outflow. Even more, some small platforms will directly ban certain accounts, in which abnormal fund flows are found.
4. International payment issues. In a global online gambling platform, it's often difficult to make cross-border payments. While in blockchain system, the digital assets are not restricted to national borders.
5. User's privacy issues.

In summary, now is the most appropriate timing for the emergence of the VOC decentralized ecosystem. The VOC decentralized system will solve security issues, fairness and openness issues, privacy issues, and payment issues. VOC will become an online blockchain entertainment kingdom with huge commercial value.

3

Project Introduction

The VOC is an online decentralized gambling and entertainment FoundationChain project initiated by “the VOC Global Online Entertainment and Ecology Foundation”. The Foundation is co-sponsored by practitioners and enthusiasts from global gambling industry.

The VOC is aimed at providing a fair and equitable service platform for gambling and entertainment, making service borderless, allowing people to enjoy entertainment anytime and anywhere. Because of the particularity of the project, and also for more openness and transparency, the Foundation decides to conduct anonymous research and operation for the project. The platform will be community-based and fragmented.

How to make VOC project more open and transparent? Here are several ways:

1. On management level. The foundation will set up decentralization management teams to support each community group and player. Also the VOC will establish supernode voting mechanism. The total number of supernodes will be 63. The overall operation of the FoundationChain will be determined by the voting result of these 63 supernodes.
2. On operational level. The decentralization management team will take out 6 million VOCs for community construction (see specific distribution methods in section Distribution of VOC). The supernodes built by the communities will mainly provide high TPS response service for large-chain games (see details in section Chain’s Architecture), so all DAPP games on the chain will repurchase VOCs with no less than 20% of their profits per year, ensuring that the nodes in the VOC ecosystem have sufficient operating expenses.
3. On technical level. The working mode of VOC FoundationChain is to combine supernodes and mining rigs. Supernodes provide block data synchronization and block storage services, while mining rigs provide computing power and game acceleration services. The VOC platform will make sure all the transactions are reliable and secure through tens of thousands of node consensus, and simultaneously provide tens of thousands of TPS to ensure the efficiency of transactions.

There are many innovations in the design of the VOC:

In terms of entertainment types, the VOC mainly targets on short-term (suitable for mobile crowd or people who want to take a short break)single/multi-player competitive game,

single/multi-player gambling game, level game, quiz, etc.

In terms of gambling types, the VOC mainly targets on the real-rule game, chess game, ball game, horse racing, etc.

The VOC also distinguishes the original industry games according to their popularity, and then conduct one-to-one copy and research for each game, exploring new things and new strategies.

In addition to providing decentralized gambling and entertainment services, the VOC provides other services like custody business, extensive business operation and function upgrade.

1. The VOC will activate smart notification function when block height reaches 7776000. After that, any target VOC user can apply for a notification on the chain, and they will get their notification authority based on their bid price.
2. The VOC will activate smart contract function when block height reaches 18144000, providing convenient service for users to issue their own tokens on VOC foundation chain.
3. The VOC will activate functions as anonymous application for accounts and anonymous transfer when block height reaches 47088000, providing VOC users with safer and faster one-stop service.
4. The VOC will activate anonymous chatting function at the block height of 62208000, providing users with high-privacy communication service that is safe and effective, giving a secure and reliable place back to users.

The VOC is a blockchain project of epoch-making significance. It provides the foundation for a full range of applications within the industry. Without building a centralized and cloud-based platform like AWS (Amazon cloud platform) and Azure (Microsoft cloud platform), VOC is to establish a decentralized foundation-chain platform. VOC will open all APIs of operation to global developers to facilitate them develop and get access to any DAPP.

Take EOS, the hottest system currently, as an example. There are more than 2,000 DAPPs on EOS now, but the most active ones are from certain category like gambling. According to DAPP block project data on EOS, there's a DAPP that could make 800,000 EOS profits one day for its developers. Yet, the reality is that the number of such DAPPs is till too few to reach saturation, based on

data reasoning and application analysis.

Therefore, there are still many points worth exploring in the earning industry of gambling and entertainment. Infinite imaginary space will be left to any developer team with the ability to innovate around the world.

The VOC is a 100% decentralized project, so developers don't need to pay high rents like those centralized cloud platform. All the APIs on the VOC are 100% open to developers, so that they can develop any blockchain application that has meaning or market value on the chain.

The VOC is a very forward-looking project that allows investors to benefit from multiple phases. The overall architecture of this system is designed from the perspective of investors and applications that will land in the future. The platform will complete the operation of main chain by using supernode voting and the acceleration of mining rigs.

Revenue:

1. The supernodes could gain profits from mining and transaction fees.
2. Miner could obtain revenue from mining, coin premium, mining rig activation premium, account activation premium and the supernode's coin activation. In total, the VOC users' revenue will be multifaceted from all aspects.
3. There are also promotion fees and operating commission as revenue. Miners will be granted promotion rights for game and entertainment projects on VOC gaming platform (only for users who have VOC mining rigs), and they will have the right to obtain promotion revenue.

The VOC will build a multidimensional and innovative foundation public chain that integrates private chatting, anonymous transfer, asset management, smart contract and other functions. It will develop into a higher level representing a new generation of blockchain technology and application.

4

Solution

4.1 Design Concept of the Chain

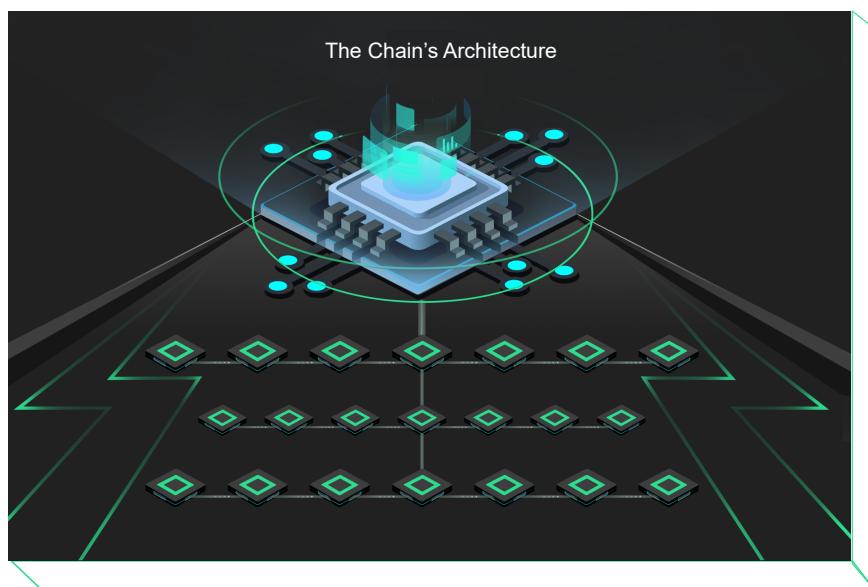
The VOC is a foundation chain, aiming to build a virtual world of fairness, justice, openness, transparency and security. There is no distinction between high and low, rich and poor in this world. Users can enjoy the real freedom and equality in the world of VOC. The VOC design team has carried out a lot of research on various large-scale public platforms from which they absorb advantages to make up for shortcomings. VOC's chain bottom design not only inherits the open and personalized R&D of existing platforms, but also has more consideration about fairness and transparency, leaving most of the function realization rights to global developers. Engineers can develop a variety of wonderful applications on the chain. The VOC uses gambling and entertainment as the entry point to provide landing assurance for all usage scenarios in the world.

The VOC has the world's top one TPS to ensure the speed and security of transactions on the chain, pushing a big step forward for the application landing of blockchain industry.

4.2 Chain's Architecture Rules

The VOC consists of 63 supernodes. The array is divided into three phases, each with 21 nodes. Each node consists of 399 mining rigs, and the maximum number of mining rigs is only 25,137.

The opening of nodes and mining rigs is determined by market progress. In the first phase, 21 nodes will be opened, and 399 mining rigs will be initiated for each node, with a total number of 8379 rigs starting to work.



4.3 Supernode and Mining Rig

The VOC network consists of 63 super nodes and more than 25,137 ordinary nodes. The main chain will release and start the first phase, while the second and third phases will be built by the community.

The rules to build nodes are as follows:

1. Supernode

One can apply for supernodes in wallet APP, then the existing supernodes will vote to decide whether to approve the application or not. Once approved, the applicant should transfer 1 million VOCs to the main chain mortgage account, after which the supernodes will be automatically activated.

When the applying number of nodes reaches 63, the main chain will automatically start the last one elimination voting mechanism. That means the main chain will rank the nodes according to the number of VOC votes. The first 63 become main nodes, and those that rank after 63 become candidate nodes. The maximum amount of candidate nodes is also 63.

When a candidate node's coin number is more than the last main node, this last one will be automatically phased out to be a candidate node. The main chain will automatically complete this switchover and the rights of different nodes will be exchanged as well. The first 63 supernodes have the same rights and interests as the main nodes, and the top 63 candidate nodes, which is ranked by the amount of coins, have the gains of candidate nodes. The rest nodes won't have any revenue. The candidate nodes also follow the rules of automatic elimination according to the number of coins.

The supernode's voting method is to sum up 1 million VOC mortgages and the account balances, then the nodes will be ranked by the sum. So there is no need to put excess coins into the mortgage account. This way will help the nodes control their assets flexibly and freely at any time. The management method of the supernodes is located in the Mine function module of the mining rig APP which will automatically show up when the application for nodes is approved. The user can control the mortgage and refund of supernodes in this function module.

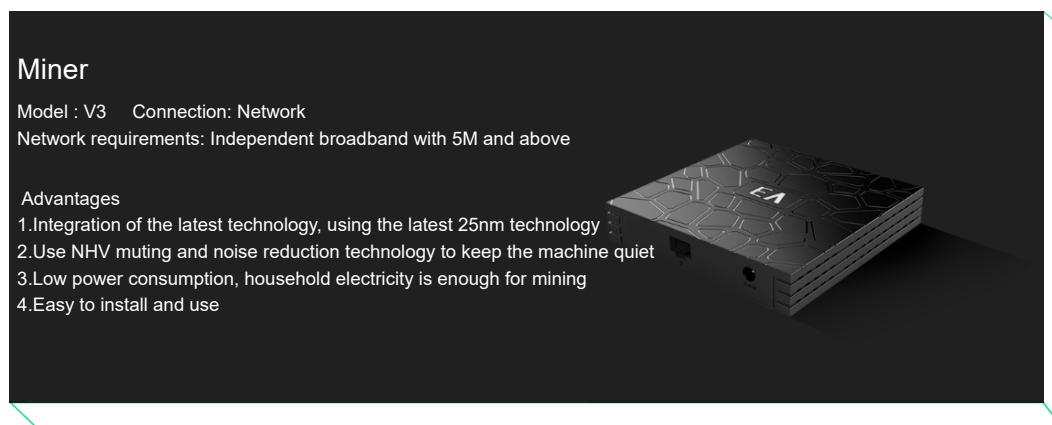
2. Ordinary node

Ordinary nodes do not need to be applied; they can be activated after the purchase of mining rigs. At the same time, mining rigs must be mounted to one of the supernodes to provide arithmetic bonus. After successful mining, the result will be reported to the supernode, and the miner will obtain the mining gains.

Rights and interests

1. Voting rights. The supernode has the voting rights to control the opening and reclaiming of a function, and the mining rig has the right to decide which supernode it can vote for.
2. Supernodes have the rights to obtain service fees and the rewards from mining.
3. The right of agency for platform entertainment and games. When the VOC eco-entertainment is launched online, one can choose to proxy the corresponding game and entertainment module, and get 20% of the module's revenue.

Miner Display



Miner

Model : V3 Connection: Network

Network requirements: Independent broadband with 5M and above

Advantages

- 1.Integration of the latest technology, using the latest 25nm technology
- 2.Use NHV muting and noise reduction technology to keep the machine quiet
- 3.Low power consumption, household electricity is enough for mining
- 4.Easy to install and use

.....VOC.....

Block Output Rules

VOC Miner

Model : V3 Connection: Network
Network requirements: Independent broadband with 5M and above

Block Output Rules

1.1 block per second, the quantity of explosion blocks is between 0 and 10,000
Distribution method: 70% for supernodes, and 20% for block miners;
the candidate nodes can obtain 80% average earnings of the supernodes at most, which are 110 VOCs.

2.60*60*24=86400 blocks

3.Block output rules per cycle

Each block has 4 times coin number on the 1st week of 1st cycle
Each block has 3 times coin number on the 1st week of 2nd cycle
Each block has 2 times coin number on the 1st week of 3rd cycle
Each block has 1 time coin number on the 1st week of 4th cycle



The main chain of the VOC provides a query entry function for mining rigs and block explorer, and will display the real-time operation status of mining rigs and supernodes at the same time.



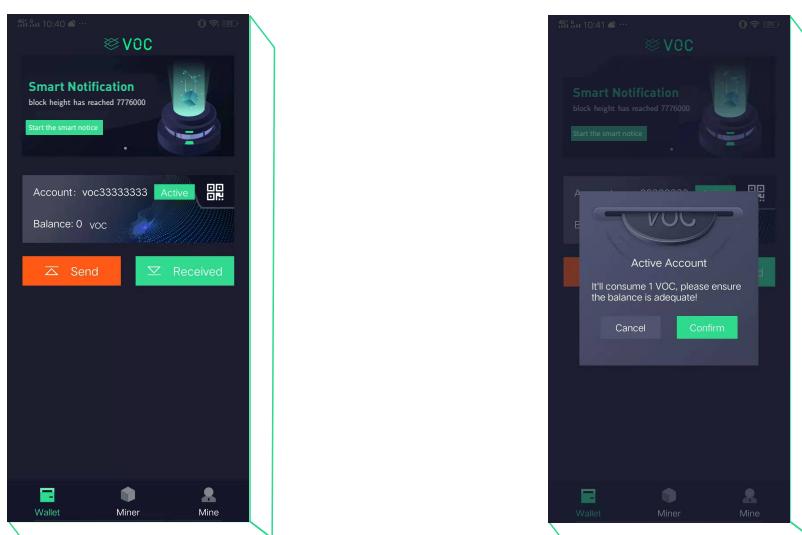
4.4 Account Rules

1. An account's length should be 11 digits, consisting of capitals from a to z and numbers from 3 to 8, symbols not included;
2. After an account is created, 1 VOC needs to be mortgaged to activate it, and then the corresponding rights to use resources are obtained.

The initial obtained rights are as follows:

CPU 0.4, Memory 0.3, Network 0.3

The activation method is as follows:



4.5 Smart Notification

The VOC will activate smart notification function when block height reaches 7776000. After that, any VOC user can apply for a notification on the chain, and they will get their notification permission based on their bid price.

When the block reaches a specified height, the notification service will be activated, and the wallet will open the notification permission. Different release time for each notification requires different number of VOCs based on the different heights users choose. In the same time range, higher bidder will get better notification place. When the height passed, the notification automatically expires.

.....VOC.....

The functions are as follows:



4.6 Smart contract

The VOC will activate smart contract function when block height reaches 18144000, providing convenient service for users to issue their own Tokens on VOC foundation chain.

There are many benefits to issue smart contracts on the VOC:

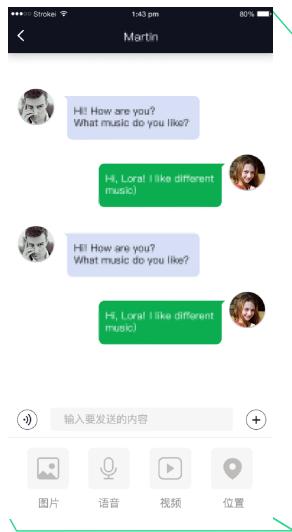
- 1.Quickly confirmation and account, especially suitable for stablecoins like USDT and QC, saving aggregation time and handling fees;
- 2.For the account model, there is no need to generate countless invalid addresses, thus saving wallet space to increase index efficiency;
- 3.The MEMO function will increase the convenience of project issuance and collection;
- 4.Issue Tokens by one-click, the official website provides high-quality smart contract codes to solve the difficulty of issuing coins.

4.7 Anonymous Social Contact

The VOC will activate functions as anonymous application for accounts and anonymous transfer when block height reaches 47088000, providing VOC users with safer and faster one-stop service.

In consideration of current limits of communication tools, the VOC will launch anonymous social function when certain height of the block is reached, so one user with a VOC account can socialize with all the other users.

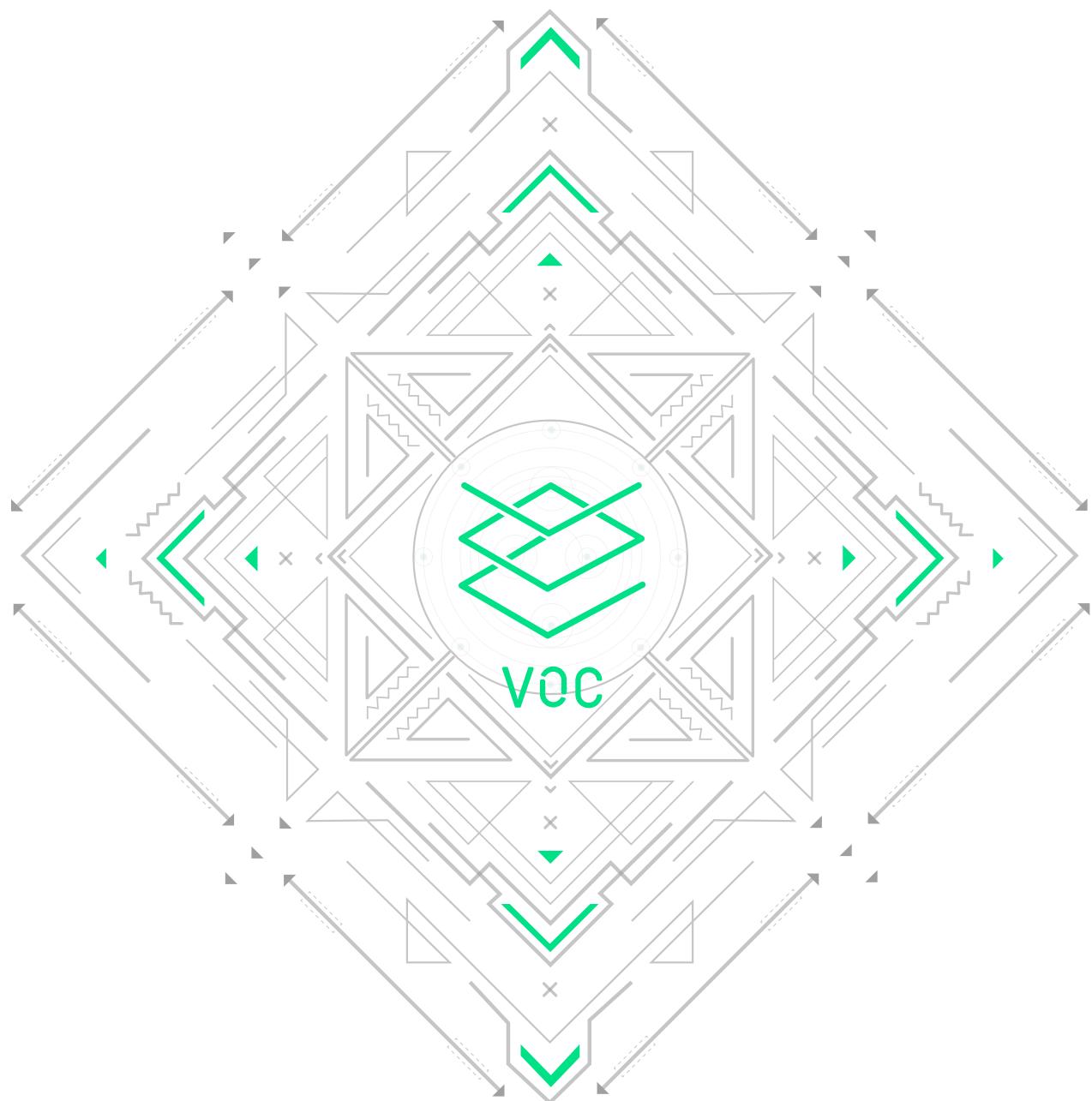
The specific functions are as follows:



4.8 Anonymous Accounts and Transaction

The VOC will activate anonymous chatting function at the block height of 62208000, providing users with high-privacy communication service that is safe and effective, giving a secure and reliable place back to users.

4.9 Ecosystem Construction



The VOC aims at promoting the overall ecological construction. The decentralization management team will provide 6 million VOCs as development incentive funds to strengthen ecological construction. The specific reward rules are as follows:

Supernode generation:

Build 21 nodes in the first phase, rewarding 70000 VOCs (1.47 million)

Build 21 nodes in the second phase, rewarding 30000 VOCs (630,000)

Build 21 nodes in the third phase, rewarding 10000 VOCs (210,000)

Remarks: The rewards are available after nodes are successfully launched online for 31 days.

The deployment of mining rigs:

The 1st phase: The community group deploys 1,000 units rewarding 30000 VOCs. (Total amount as 240,000)

The 2nd phase: The community group deploys 1,000 units rewarding 20000 VOCs. (Total amount as 160,000)

The 3rd phase: The community group deploys 1,000 units rewarding 10000 VOCs. (Total amount as 80,000)

Market website:

Each of the top 10 who launches VOC information online receives rewards of 10,000 VOCs. (Total amount as 100,000)

Airdrop:

For the supporters of the VOC ecosystem, contributors will airdrop a certain percentage of VOCs (total amount as 3.11 million).

.....VOC.....

The decentralization management team is a non-profit organization that aims to promote the development of the VOC. The team will automatically disband after forming the community and all the VOCs for ecology construction being released. Mining rigs and supernodes will handle all the subsequent operations.

5

Issuance and Distribution of the VOC

Distribution ratio of : 300,000,000 VOC

Genesis nodes: 9,000,000

Technology research and development: 9,000,000

Ecological construction: 6,000,000

Market operation: 6,000,000

6

Application and Practice of the VOC

VOC will launch a purely decentralized game platform Vgame online when the block height reaches 22464000. Vgame supports fighting games, competitive games, gambling games, room-card games and so on. The VOC will open all underlying APIs to global developers to facilitate them get access to various DAPPs freely, while the decentralization team will discuss with the USDT project team about the feasibility of issuing USDT tokens based on the VOC main chain. The USDT tokens issued by the VOC main chain has advantages over those issued by any previous chain, mainly reflected in

- 1.High TPS and fast confirmation speed, user experience will be enhanced unprecedently.
- 2.The VOC itself is a model combining accounts and MEMO. Users or the trading platform can save aggregation time and handling fees, which alone can save more than 10 billion transfer fees for exchanges and users every year.

In order to develop a perfect ecosystem, the VOC will establish a community exchange when the block height reaches 25920000, offering convenience for users to trade in the community-based ecological exchange, allowing them to manage their assets more securely and conveniently. The whole community ecology will provide integrated service from the aspects of user socialization, node voting, asset security, project announcement, smart contract, gambling and entertainment, etc. At the same time, VOC will incorporate the platform tokens of the exchange.

The VOC will be a perfect combination of future imagination and reality catching up with all the current main chain projects. It is no longer a dream that the VOC will be among the top digital currency platforms with top market value.

7

Risk Warning

This white paper is only intended to convey information without providing any investment advice, investment intention or investment abetting. This white paper does not constitute or be construed as any purchase or sale behavior, or any invitation to buy or sell, any form of securities behavior, nor is it a contract or commitment of any kind. To the participants of the VOC listing project, please be sure to read the VOC white paper carefully to fully understand the technical characteristics of the VOC and the risk-return characteristics of listing; please take your risk tolerance into full consideration, make rational judgment and prudent decision. Your decision to participate in this project means you understand and accept the risk of this project and are willing to bear all the corresponding consequences.