

VirtualGameCoin

VGCCore Technology white paper

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# Introduction

VGC core tool is a miner's tool at the core technology layer of VGC ecosystem. It uses blockchain technology to provide transmission / storage / resolution / addressing / service functions for applications in VGC ecosystem.

Different from the user layer VGC application tool released now, the tool does not serve any users and markets. It is used for more professional mines / individual miners with technical experience, provides basic technical services for VGC ecology, and can obtain VirtualGameCoin rewards.

This version of the white paper is not final and may be upgraded or continuously update by vgcteam.

# Miner type

VGC core tools include

Mobile miner tool: global access guide node

PC server miner tool: IPFs interstellar file data storage and transmission

Developer private node tool: serving large private / high security applications

# More environmentally friendly mining machine requirements

In order to better solve the current world's environmental protection problems for the earth, the mobile terminal mobile phone miner tool hopes to play a better role in the world's idle / old mobile phones. The miner only needs to have an old mobile phone that can operate normally, has 512g built-in storage, and can use the positioning module and network module normally, and install the mobile terminal Vcore, Keep the mobile phone open to participate in becoming a mobile phone miner.

PC server miner tool can provide storage services for applications in VGC ecosystem by using personal computer hard disk without using high computation / high energy consumption methods such as graphics card or CPU. More energy saving and environmental protection. It can provide transport and services for basic applications.

The private domain node tool is for developers / enterprises with high data privacy requirements for large-scale computing. They can deploy private domain nodes and access vgcmainnet. The data is stored and saved by themselves, and can build satisfactory computing

configurations for themselves according to their own applications.

# Service mode

## Mobile node

Mobile miner tool - register as a mobile miner by connecting to the VGC master node. The global mobile miner jointly maintains and synchronizes an address list of all nodes, similar to the DNS layer of HTTP protocol. When any user accesses, he can comprehensively find the mobile miner node closest to the user and most responsive through positioning, The user obtains the latest height information through this node, obtains or locally looks for the addressing / parsing / boot of this access, and guides the user to the exact storage PC server node. PC server nodes let mobile mining nodes know what files they store, let nodes that need it download the resources they can provide access, and use P2P technology to obtain access data and transmission.

The mobile miner tool needs to be online for 24 hours and the network should reflect quickly. The system allocates user traffic for each online mobile miner according to the principle of fairness. According to the number of users served, the miner will receive VGC reward. Miners can join and exit at any time according to their own situation. According to different service hours, newly joined miners will get a lower reward base and user traffic allocation base than mobile miners who have been online for a longer time.

## PC / Server node

PC / server miner tool - register as a storage miner by connecting the VGC master node, and use the hard disk to store VGC ecological applications. IPFs interstellar file storage technology is used to store developer applications in VGC ecology in various hard disk mining machine nodes. When the user accesses, the required data is transmitted to the accessing user through point-to-point transmission. The PC / server miner tool mainly undertakes the data storage function. When becoming a miner, it needs to use VGC for pledge to ensure that it can provide normal services for the main network within the promised service period. Become a storage miner with a minimum service period of 1 year. The application developer uses VGC to pay you the storage fee. The VGC you obtain and the pledged VGC can only be withdrawn after the service expires. Within the agreed service period, if the service promise cannot be completed due to network disconnection / power failure for your own reasons, the pledged VGC will be continuously deducted. After the pledged VGC is deducted to 0, it will be cleared out of the miner node, and the VGC paid by the developer to you will be returned to the developer. You can add the number of pledged VGCS at any time to ensure more repair and processing time under special circumstances. You can also use multiple points / multiple storage mining machines for cluster services in the form of clusters (mines). In case of problems in some mining machine nodes, you will not be punished as long as other nodes in your cluster account can normally provide the promised services.



Therefore, mobile mining machine tools are more suitable for individual miners, and server-side storage mining machines are more suitable for large clusters / mines.

## Developer private node

For large-scale applications with special requirements for server computing power, developers can use any server and independent IP to build private domain nodes for their own use through the private node tool. Private domain nodes can't get mining rewards and are only for their own use, and need to pay fees to mobile end miners. Access the VGC main network through the private domain node tool, and the user obtains the access information of the private domain application from the mobile terminal node. The data storage and security of private domain nodes are guaranteed by the developer.

# Reward method

VGC ecology has 300 million VGC for rewarding miners, 100 million mobile terminals and 200 million storage terminals.

The developer pays the storage fee, and the full amount belongs to the storage miner according to the storage volume.

The mobile end reward pool has a total of 100 million VGC, with an output of X pieces per hour, and rewards all mobile end miners who have provided parsing / addressing / services for users within that hour according to the number of services. The output reaches 50 million / 75 million / 87.5 million... And X is halved one by one.

There are 200 million mining machine reward pools at the storage end. The output reward y is calculated according to the contract time / service period / storage capacity, and gradually halved when the reward output reaches 100 million / 150 million / 175 million / 187.5 million... And Y is halved one by one.

The storage fee paid by the developer for storing data for the node shall be fully obtained by the service node.

# VGCMaInNET Top

