



# **DOLLTRX Cloud MINING**

**White Paper**

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## Summary

DOLLTRX mining is a blockchain protocol. It is like a decentralized central bank, establishing a currency market through smart contracts. The money market is based on the supply and demand of assets, and the interest rate of the asset pool is derived through algorithms. The provider of USDT assets (participants, we call them "miners"), without any actual mortgage, interacts directly with the smart contract agreement, and automatically earns floating interest rates, without having to negotiate expiration and interest rates or collateral with peers or counter-parties and other terms.

It allows USDT holders to automatically explore the borrowing needs of the currency market and automatically match higher interest orders after agreeing to authorize the execution of this contract (becoming a "miner"). It is an AMM mechanism and an automatic quantization procedure. Your deposit is always in your own wallet, no withdrawal is required, and you can withdraw the earned interest to your wallet at any time. Become a "miner", hand over to the smart contract agreement, and automatically earn income.

### 1. Origin of DOLLTRX Mining

#### 1.1 Why build DOLLTRX Mining

It needs to look at the roles of protocol in blockchain. Compare the model of Internet and blockchain, we can see that the sharing agreement of Internet such as TCP/IP, HTTP, SMTP, most of which are gained and rearranged in data form at the application layer. However, in terms of ROI, the return of the investment in protocol is far below than that

of the application, and the return of TCP/IP is much less than that of Google, Facebook and Wechat. As for blockchain, the protocols and application performance are in contrast to Internet, for example, the assessed value of BTC and ETH is much higher than that of application, which mainly lies in that the Internet is developed from the decentralization to centralization, but the evolvement of blockchain is opposite with it. As most applications already existed in the development of blockchain, we not only need to utilize the protocol of blockchain to upgrade the existed applications, but also need to copy and store user's data through the open-source and decentralization Internet, and lower the threshold of new participants, build an ecosystem to make the products and services related to the protocols more active and competitive.

Despite the limited use cases, the utilization of blockchain technology in applications that focused on the sharing economy was already available before the birth of DOLLTRX mining. However, during the implementation process, these applications can only be applied in one industry, resulting in the well low promotion rate of protocol, therefore it is a centralized application in essence. Smartshare is to use open and decentralized network protocol to lower the threshold to join in the sharing economy, creating a sharing ecosystem across the category and region.

## **1.2 Social value of DOLLTRX Mining**

While resources are ubiquitous, the best use of them is not only an esteem foe us, but a crucial method to protect ourselves and the earth. At this present moment where resources are abundant, billions of terminal devices, including those under the cover of sharing platform, are not utilized optimally.

DOLLTRX mining ideology is to promote cooperative sharing, where all terminals will be part of the sharing economy for both sharer and receiver to exchange value and benefit

from it. The goal of DOLLTRX mining is to build a sharing community that is not only convenient for people, but can solve the problem of resource waste resulted by information asymmetry. DOLLTRX mining uses technology to bring us into a virtuous circle of full utilization of resource. DOLLTRX mining sharing protocol uses the decentralized nature of blockchain to realize value sharing across society. By virtue of the protocol everyone can enjoy the convenience and benefit from sharing resources, then social overhead capital will be reduced.

## **2. Blockchain Technology and its Shared Economy**

### **2.1 The Current State of the Sharing Economy**

Smart living and smart manufacturing are the two main growth-driver of smart hardware industry. Astechonology, related infrastructure and application service get better over time, smart hardware now includes not only smartphones, but wearables, furnitures, in-car entertainment system, medical appliances, smart autonomous system and so on. The adoption of smart hardware in industrial, medical, automotive and agricultural industries has been accelerated due to the recent development of Lot, “Internet+”, Artificial intelligence, Machine Learning, etc.

The development of a sharing economy has created a new business model that maximizes the resources utilization and greatly facilitates people's daily lives. The primary benefits of sharing economy are reflected in the better allocation and circulation of resources, reducing wastage and benefiting all stakeholders in a sharing economy. Almost everything has shared value, but due to the shared value can't be estimated and doesn't have payment advantage, only a few commodities own it.

## 2.2 The Value of the Sharing Economy

Sharing economy is broadly to assemble all distributed resources together, share value in a centralized way, use the distributed network to trade and exchange the resources that are not fully utilized, including assorted profit- driven and nonprofit-driven goods and services. Due to the vicious competition brought by the profit centralization in the current sharing economy, the waste of resources induced by the gimmicks of sharing economy model can be seen everywhere. It is not only the bottleneck of current shared economy, but the driving force of the revolution of blockchain.

Compared with traditional sharing economy, the application of sharing resources can be characterized by two rights, two centralizations and three roles. The two rights are the ownership and the right to use; the two models of centralization are decentralization and re-centralization; and the three roles it plays are the sharer, receiver and the sharing platform itself. In the sharing economy, the provider provides an idle resource that's demanded by the receiver. Sharing means the right to use is shifted temporarily without any change to the right to ownership. Decentralization of the sharing economy allows the resource provider to break the tradition by approaching the receiver directly without any middleman. However, when large amount of decentralized sharing happens, a decentralized platform will be required to form a sizable regulated market. All three parties (sharer, receiver, and sharing platform) are essential for sharing economy to work. The relationship between sharer and receiver can be, one-to-one, many-to-one or many-to many.

Given that both the early models of centralized and decentralized sharing economy continue to exhibit bottleneck characteristics in form of destructive competition; and that the sharing economy remains incapable of pricing values, the team believes that the sharing economy should be based on a decentralized model to solve both issues. The sharing of WiFi can be a good use case for the adoption of blockchain technology in the sharing economy as each sharing WiFi unit acts as a node that allows for the data

transfer. Based on a mining algorithm, mining rewards can be programmed to automatically distributed by the blockchain to incentive adopters to utilize the ecosystem. This indirectly solves the issue of pricing for a shareable value. We believe that such use cases will be revolutionary and will bring about positive effects to the society as a whole.

### **2.3 How Blockchain enhances the value of Sharing Economy**

Blockchain, is also known as the distributed ledger technology, an Internet database that is decentralized, open and transparent. It allows everyone on the blockchain to participate in record keeping. As the smart contracts mature, blockchain will naturally shift from the information recorder to the trading executor. One example is low-cost automated trading, which has greatly reduced the cost of value exchange. Combined with the unimaginable application scenarios developed by Lot, for example, the current sharing economy is only available on products with high value. Once the transaction cost is significantly reduced, all thing can be shred in anyway, anytime and anywhere. With the appropriate terminal, an ideal sharing economy will come true.

Through blockchain technology, DOLLTRX mining Protocol will build a smart, credible,open, decentralized data exchange for a sharing economy based on the current architecture of sharing economy. DOLLTRX mining aims to subvert the existing centralized sharing platform with blockchain technology, and use DOLLTRX Token to realize value quantification and circulation. At the same time, as a underlying protocol of blockchain sharing economy, DOLLTRX mining will conduct In depth coverage and application in related industry of business, applying blockchain technology in new business.



### **3. DOLLTRX Mining Achieves Lot Value Sharing**

#### **3.1. Internet of Things Development and Current Situation**

With the popularization of Lot, the concept of interconnected networks is deeply rooted in our hearts. Lot utilizes information sense devices to achieve interaction among products. In short, all your devices are implanted in chips, making intelligent network interaction possible.

Each Lot terminal can act as an independent business entity on the network and share their ability or resources with other terminals at low transaction cost. All Lot devices are able to report their status, which creates a good condition for us to utilize the idle resources. At the same time, Lot has also provided a transparent, fluid market for trading.

In 2015, the global Lot market reached 62.4 billion U.S. dollars, an increase of 29% over the same period of previous year. By 2018, the global Lot device market is expected to reach 103.6 billion dollars, with a compound annual growth rate (CAGR) of 21% from 2013 to 2018. The amount of new Lot devices will grow from 1.691 billion units in 2015 to 3.54 billion units in 2019.

The rapid development of Lot has appeared a few prominent issues. Firstly, many Lot infrastructures are not utilized optimally and are left idle.

Many Lot vendors and investors do not benefit from the Lot data and terminals. Secondly, the global Lot platform lacks a universal communication mechanism, which has made data collection and cross device connection difficult.

For example, the industrial ecosystem of a traditional PC or mobile phone consists of the foundational processing chip, foundational software and core application. Smart hardware is based on smart technology and has its ecosystem processing chip, data, algorithm, development framework and application platform. The core factors are more

intercoupled and complex. For example, differences in the hardware architecture and lack of common communication protocol and standard has resulted in difficulty of individual terminals communicating with each other.

Present blockchain technology not only provides the right solution for recording data for all Lot cells, but also ensures that recorded data can't be amended. Therefore, DOLLTRX mining is using blockchain to solve the shortcomings of communication compatibility and resource idleness to enhance the value of Lot

### **3.2 Blockchain Technology Used in Lot**

While there are already a lot of Lot applications, current technology is inadequate to realize ideal usage of Lot in which everything is interconnected. The current Lot framework is mainly closed. Although devices in a closed system can interconnect with each other, and even the Internet can transfer data, there's still difficulties for devices using different systems to undertake valuable communication.

On the other hand, we need to use other Lot equipment manufacturers' terminals and networks for data transmission and storage. It is thus necessary to reach a multi-party agreement on the distribution of benefits.

In other words, companies and individuals who provide basic Lot devices and web services will be able to obtain reliable revenue more easily ,such as charging fees based on the amount of data stored and transmitted.

Under the present technical conditions, a cooperation agreement must be reached if different Lot service providers are to share resources. Blockchain technology made point-to-point data transmission in Lot possible. A big and centralized data center is not required anymore for data synchronization, management and control.

Operations such as data acquisition, instruction sending, and software update can all be transmitted over the blockchain network.

### **3.3 Smart Agent Ecosystem**

DOLLTRX mining bridges the entire ecosystem through smart chips. Each DOLLTRX mining smart chip implanted in a smart terminal acts as an individual node. A Smart agent chip will be implanted in each Lot terminal, then the terminal will be registered on the blockchain and have a digital identity. On this very note, DOLLTRX mining will use the smart contract ledger to record all information of this digital identity.

The digital identity can be used for identity authentication, but more important, as the basis for identification in blockchain-based Lot. Its goal is to achieve the direct communication and value delivery between objects. It will also acquire tokens automatically according to the shared value provided by devices during the sharing process.

DOLLTRX Mining will work closely with Lot providers to build an ecosystem

The purpose of enhancing the terminal value. Here are the achievements:

- In December 2021, we entered into a strategic partnership with Chain-box of Binary Sales Technology Ltd in London
- In January 2022, we reached a strategic partnership with Mau Huan to bring smart health products into the DOLLTRX mining ecosystem.

- January 2022, we have entered a strategic partnership with Mau Huan Health to bring Smart Health Products to the DOLLTRX mining ecosystem.
- January 2022, we have entered a strategic partnership with the Yuan

### **Zheng Data**

DOLLTRX mining is committed in working with more Lot vendors. It is estimated that by end of 2022, the number of alliance manufacturers will reach 10 or more.

### **3.4 How DOLLTRX Mining Accelerates Adoption of Lot Sharing**

By using DOLLTRX mining, Lot devices of different owners can transfer data through encrypted DOLLTRX mining protocol and calculate sharing value and acquire data through Smart agent. The fees for data transfer can be calculated by Smartagent too. SmartToken is the basic unit in DOLLTRX mining blockchain Lot network. It will be used for payment, and as a reward for value sharing. As long as Lot vendors provide blockchain technical support for devices, their devices would be able to share or exchange their value within the DOLLTRX mining network. DOLLTRX mining's vision is to create a sharing ecosystem with appropriate sharing mechanisms and reward schemes for the sharers in order to accelerate the growth of the sharing economy within the Lot ecosystem.

## **4. DOLLTRX Mining Operating Mechanism**

### **4.1 What is DOLLTRX Mining**

DOLLTRX mining is a distributed network protocol that uses blockchain technology and digital identity to digitize assets. It uses smart contracts to transfer value to sharing entity, making all shareable objects realize the exchange of shared value.

Through built-in encryption protocol and blockchain based Token rewarding mechanism, DOLLTRX mining makes billions of Lot terminals get shared value and form a massive decentralized sharing network based on the algorithm of value sharing.

It will be possible to share different types of smart terminal value, such as computing resources, network bandwidth, network quota, storage, rights to use other devices and even time through DOLLTRX mining protocol.

#### **4.2 Problems to be solved by DOLLTRX Mining**

The irresistible decentralization age is only accelerated and made better by adoption of Lot. Billions of people and devices are connected by Lot in point-to-point manner, forming a massive sharing economy.

Lot not only allows everyone to be both producer and consumer at the same time, making each activity become a form of cooperation, but connects all people into a global community. In this way, the prosperity of social capital is unprecedented, all above conditions make the sharing economy possible.

In the rapid growth of a sharing economy, the main issues for more universal and indepth improvement are as follows:

- (1) The shared value of smart terminals is hidden due to the lack of universal value standard and marketability, resulting in a waste of large amount of resources.
- (2) Lack of universal protocol. There has been attempt to use blockchain to solve the pain point of current sharing economy, however the lack of protocol between chains has resulted in the shared value nonnegotiable.

(3) The shared value mechanism lacks flexibility. As different participants have diverse requirements on the sharing mechanism, the existing mechanism cannot be promoted universally.

### **4.3 The Goal of Trx-stx Mining**

DOLLTRX mining is a blockchain-based distributed database, utilizing the features of blockchain, such as decentralization, disinter-mediation, trustfree smart contract and timestamp to form the foundation of sharing economy by establishing a smart, trustable, open, decentralized protocol for value sharing.

DOLLTRX mining is centered on the underlying shared general protocol, and is gradually connected with applications in sharing industry, such as shared trip, shared charge pal, shared digital products and home-stay. At the same time, DOLLTRX mining uses Lot, AI and big data to achieve the optimal usage of efficient resources, building the top-ranking decentralized sharing ecosphere.

## **5. DOLLTRX Mining Technical Background and Program**

### **5.1. DOLLTRX Mining Protocol**

DOLLTRX mining bridges the entire ecosystem through smart chips. Each DOLLTRX mining smart chip implanted in a smart device acts as an individual node. Through DOLLTRX mining, the nodes would be connected and be able to exchange and share value. Blockchain consensus is achieved through a very rigorous mechanism.

Adding the next block in the blockchain requires multiple parties to compete and obtain block rewards or transaction fees. Bitcoin uses Proof of Work (POW) and Hash calculations for mining. DOLLTRX mining uses an original consensus mechanism, proof of share to ensure that mining is achieved through sharing. This sharing mechanism is based on multiple consensus mechanisms.

A good use case for DOLLTRX mining is to mine by sharing computing power. Research from Berkeley Open Infrastructure for Network Computing DOLLTRX has shown the viability of using an open protocol to reward users who contributed computing power. DOLLTRX is an open protocol for scientific grid computing that allows participants to contribute their own spare computational power to conduct a series of scientific calculations.

DOLLTRX mining uses DOLLTRX as a computing platform to help conduct a variety of scientific research, which includes finding identities of individuals, simulating DNA data, etc.

Another example is mining through resources sharing (storage, bandwidth, etc.), where the smart chip will communicate directly with the smart terminal to monitor the shared resources, and issue appropriate amount of tokens.

## **5.2. ShareAgent's Smart Chip**

DOLLTRX mining bridges the entire ecosystem with ShareAgent. Each DOLLTRX mining node has only one ShareAgent (hereinafter referred to as SA) built on a dedicated smart chip. SA's core functions include: node authentication, node asset management, service metering, distribution control, service price assessment and service billing. DOLLTRX mining links these nodes through SA to achieve the sharing and exchange of value sharing.

### **5.21 Node Authentication**

SA certifies the legitimacy of each node. As an authenticated security unit of sharing network, SA has the basic legitimacy granted by the sharing network. At the same time, SA also undertakes the task to identify the legitimacy of electronic information devices and systems related to corresponding nodes.

## **5.22 Node Asset Management**

SA is responsible for not only playing an role of electronic wallet by receiving, paying and storing digital currency assets, but managing other assets owned by the nodes in the shared network. For example, data asset information that nodes store in shared storage, and shared service information that is currently provided to external parties

## **5.23 Service Description**

SA represents shared service information of sharing network provided by nodes, including service types and service definitions.

## **5.24 Matching Transactions**

SA represents the node to provide the shared network with service price, including the supply and request price. Based on the price of both parties and fair rules, the transaction can be coordinated in the principle of benefiting our own.

## **5.25 Service Measurement and Distribution Control**

SA cooperates with the sharing network to accurately measure the service provided externally or received by nodes, record unsettled service metrical information, and coordinate the progress and procedures of the service provided or accepted by this node. For example, the process of storage sharing service includes the coordination of data sending and confirmation, and daily health inspection of data stored in this node.

## **5.26 Billing Settlement**

SA will manage payment and fund transfer based on pre-established smart contract for deposit, installment payment, and balance payment.



## 5.27 Example Description

SA verifies the service capability of associated storage service node, and periodically checks for updates according to the preset rules. Provide storage service to obtain digital currency, and pay digital currency when you receive storage service. The actual turnover is calculated by the standard of matching transactions. Data storage service is defined by volume of data, writing speed, reading speed, layers of redundancy, etc., (a clearly regular framework is required). The service demander and supplier will send out a request to the network with self-requirement and expected price. The transaction will be matched real-time by the network. It should be noted that each service unit is different from actual storage tasks seen by users. For example, a user can submit a 1GB data storage request through a node device and specifies a total bandwidth target and 4 redundant copies. After SA interacts with the shared network, it divides the 1GB data into several data packets, indicating the specifications and expected price for public tender. Based on the bidding rules submitted by users (prices fluctuation principle), SA constantly seeks the best quotation for the node owners with a profitable way.

After matching a transaction for a data packet, SA pays deposit to the service provider (if required), obtains the information required by data transmission, and both parties (may be multiple parties) begin to transfer data. Each node device reports the status of data transmission to SA. After successful completion, the demander pays the balance, and if the service fails, deposit will be returned (if any). Make appropriate compensation according to the established rules to (if available and as the service provider's responsibility). Once the service is completed, and the transmission and storage of all data packets is finished one by one. To simplify the overall design of storage service architecture, shared storage can be built according to object storage.

## **6. DOLLTRX Mining Application Scenarios**

DOLLTRX mining will build a blockchain-based underlying communication protocol and a massive shared network to realize the exchange of sharing value, saving social resources such as bandwidth, storage, hotspot, power, energy, time, etc. In DOLLTRX mining network, the reward mechanism is based on smart contract. The DOLLTRX mining Foundation will form a shared cooperation alliance to support various hardware and software.

The development protocol is open to third-party development teams, and DOLLTRX mining protocol will be applied in more scenarios. Below are some of the settled product applications that will be implemented in DOLLTRX mining.

### **6.1 Traffic Sharing Application**

There are currently billions of smart routers. After investing much capital, the profit margin of flow resource is not high. The DOLLTRX mining protocol supports different smart routers to register, authenticate and transact on DOLLTRX mining terminal. Equipment users and owners can transfer the right of use through smart contract to achieve value transfer.

DOLLTRX mining has built a protocol layer, supporting the quick access of common smart routers, which can be upgraded to new sharing smart hardware. And users can share the idle bandwidth, storage space and computing power to exchange digital currency Tokens.

### **6.2 Shared Computing Applications**

With the development and popularization of cloud computing, deep learning and blockchain technology, the demand of computing power becomes more and more urgent.

More and more enterprises increase their computing power by expanding their data centers horizontally. In fact, there is large amount of computing power around our daily lives that is usually wasted, which is from our personal computers, or even smartphone. These devices are not required to perform at their peak performance 90% time in use. If we can utilize the idle computing power, it would be a very powerful computing resources.

DOLLTRX mining bridges the entire ecosystem through smart chips. Each DOLLTRX mining smart chip installed on a smart device acts as a stand- alone node. Through DOLLTRX mining, the nodes would be connected and be able to share or exchange value.

### **6.3 Shared Storage Applications**

In information age, data storage such as local storage is no stranger to us. Local storage refers to data physically stored in computer hard disk or removable hard disk; However, as data stored increases, the hard disk space will eventually be a limitation. Moreover, significant losses may be incurred if the physical hard drive is damaged, and hence comes the birth of professional cloud storage services.

For businesses, while cloud storage alleviates the storage pressure, it also allows companies to be limited by third parties. Cloud storage is a centralized service, with service provider having full control over the server. Moreover, if the service provider terminates the contract, the stored data is not accessible anymore. In addition, cloud storage services are provided by professional data centers, where the cost is extremely high. Even mere storage space can incur a high cost if a company needs to store big data.

## **6.4 Smart Weather Monitoring Terminal**

Smart weather monitoring device. The device has various spherical sensors built-in, such as temperature, humidity, light, air pressure and ultraviolet light sensors to monitor the surrounding real-time weather conditions.

The users can start capturing image of real-time weather after purchase. What's more, users can share the images through various social medial, and become the meteorologist among your friends. If you please, you'll be able to share the real-time weather status via WeChat, WeiBo or email very easily. The whole sharing process is simple.

This type of resource sharing is mainly driven by pure interest, where the users spontaneously share the data obtained by the terminal.

However, due to the lack of proper reward mechanism, the frequency and breadth of data sharing is fairly low, and ideal sharing is not achieved.

## **6.5 Other Scenarios**

With the sustainable development of sharing economy, the sharing of content delivery network (CDN), bandwidth, storage space, bicycle, power bank has grown significantly during the process of decentralization to centralization development.

However, it's only rental economy in disguise, and is not an ideal sharing economy.

To make sharing economy back to the fully utilization of idle resources instead of rental system, decentralized nature of blockchain is required. In this way, It can not only extend the present sharing model to more entities and individuals, but also can be applied in more industries and scenarios.

## **7. Mining Mechanism**

### **7.1 How to Mine**

The users can mine by using devices with ShareCore chips built-in. During the sharing process. According to shared values provided by devices, tokens can be acquired automatically through smart contract on the chain.

### **7.2 Equipments Compatible for Mining**

In order to share the idle products and ensure the fairness of mining, you shall meet the following conditions:

- Use devices developed and manufactured by vendors cooperating with the DOLLTRX mining Foundation
- Devices implanted with ShareCore chip
- Devices are shared as required

## **8. DOLLTRX Mining Road Map**

DOLLTRX mining Development plan

- First phase (In April 2022)

Cooperation with 4 companies (Partnership with at least 4 companies from 2 different industries within 6 months)

- Second Phase (By end of 2022)

Launch of at least 10 DOLLTRX mining applications, and accumulate at least millions of users.

- Third phase (By end of 2023)

Launch of at least 100 DOLLTRX mining applications, and accumulate at least 10 millions of users.