RealLink whitepaper

RealLink rebuilds tipping culture on the internet

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Content

1. Abstract

At present, the timestamp system of distributed accounting and token incentive represented by Bitcoin is generally regarded as the pillar of finance in the future. The ability to continuously carry out upgrading and optimization is important for a new technology to be validated and implemented by the market, thus ushering in great changes of our time.

RealLink rebuilds tipping culture on the internet. RealLink aims at bringing consumers quality contents, encouraging content creators to produce quality content and building a quality content production ecosystem. The core of RealLink is as secure and steady as Bitcoin. Besides, it contains flexible and effective scalabiltiy. RealLink aims at decentralized management, building a strong DAPP and multi-chain ecosystem and maintaining sustainable development. Any citizen or group that contributes to the ecosystem is able to gain RealLink as reward. This paper describes how RealLink, the decentralized general tipping contract helps content creators all over the world to monetize their content. RealLink is based on blockchain technology, applied in users' copyright and aims at building ecosystem of user' rights exchange. RealLink builds a decentralized platform of risk control and transaction management crossing multiple content entertainment fields in this ecosystem.

RealLink contract, the general tipping contract aims at connecting all content community platform all over all the world and making those content creators able to receive tips from followers directly. These tips are independent of RealLink funds. Any APP that participates in RealLink needs to store tipping data in smart contracts up to date, which will be stored inside blockchain permanently. RealLink supervises all data through blockchain browser with all users in the world. If any APP has any fraud, RealLink uploads those apps into smart contracts. And smart contracts execute automatically and cancel their access.

RealLink combines "decentralization" and "smart contracts" based on blockchain technology. It is a new platform application facing pan-entertainment industry. The blockchain technology records transactions that can't be modified to forecast risk and tread in pan-entertainment industry and make smart decisions.

Several social apps already contacted RealLink team and expressed their cooperation intention till now. RealLink is open to several parties at beginning, including many global top social apps. The RealLink team also plans to be open to other pan-entertainment content community apps gradually. Those tips not only provide content creators all over the world with an opportunity to monetize their content and bring them great benefits but also make creators and followers socialize more and help platforms retain their users. According to the data displayed, the broadcast industry develops rapidly in recent years and it is forecasted that it reached 82.5 billion in 2020.

In fact, the energy consumption of cryptocurrency has come into focus all over the world with the trend of carbon neutrality. The huge energy consumption of traditional mining do harm to the preservation of the environment. Green RealLink mining pool is the most important step we take to protect our global. RealLink abandons the traditional mining method and sticks to its

innovative path of "green cryptocurrency, link is mining". RealLink is open to social and community apps and mined by the way that creators create contents, which is a new green cryptocurerncy and achieve new model of "social interaction is mining and link is mining". This sustainable way is applied to mine RealLink and it is mined by this new mining method, which will solve one big problem in traditional blockchain.

RealLink applies TRC20 and is deployed in blockchain network TRON in the region of 2000 tps at beginning. Since it has the nature of holdings and transaction, RealLink is capable of being exchanged in any content platform and system. Therefore, creators don't rely on any one platform and they can earn more from their content created by them directly.

2. RealLink General Introduction

2.1 Blockchain and Smart Contracts

Blockchain comes from Bitcoin. Satoshi Nakamoto wrote "chain of blocks" in bitcoin whitepaper. And he named the file storing transaction data after blockchain in the first version bitcoin program after issued. Blockchain only refers to historical transaction data. With various cryptocurrency gradually names its transaction data files after blockchain, it is used to refer to historical transaction data of various cryptocurrency.

Nick Szabo, a computer scientist and cryptographer first raised the concept of "smart contracts" in 1994, which aims at introducing contract law and commercial agreement so as to solve trust issue of business collaboration between strangers on the internet. If a default parameter is triggered, the smart contract will execute the corresponding items automatically according to Nick Szabo. Smart contracts are executed by a centralized third party before blockchain appeared. Hence, it is difficult for smart contracts to provide their value. Now the mature blockchain technology provided smart contracts with the space of development. TRON, a platform offering smart contracts of blockchain with Turing Complete already reached 10 billion USD.

Smart contracts are of great significance for blockchain technology. On the one hand, smart contracts are the activator of blockchain, provide static raw data of blockchain with flexible and mechanism and algorithm and lay the foundation for finance system and society system building blockchain 2.0 and blockchain 3.0. On the other hand, the automatic and programmable nature stimulates that various decentralized apps to apply blockchain technology. And it can be used to build Decentralized application, Decentralized Autonomous Organization, Decentralized Autonomous Corporation, and Decentralized Autonomous Society.

2.2 The First Appearance of Blockchain

Since blockchain is the support technology of bitcoin system, blockchain is a open book recording all bitcoin transactions in bitcoin system. Each new block stores the latest transaction record between miners. And then they will be uploaded to blockchain in chronological order. Blockchain is stored in a distributed network composing of nodes. Each complete node stores a full copy of blockchain. And each node shares bitcoin transaction data with each other on the network. Blockchain is also a transaction database, which stores data shared by all nodes in the system. It is called distributed cryptographic general book. Blockchain doesn't need a centralized authority or a trusted third party to react, verify transaction or supervise any act with the general book. The full copy of a blockchain includes every transaction in the past, which makes it possible that every node has access to any information in history.

Generally speaking, blockchain includes three elements:

- Sharing status
- Updating rules of sharing status through blockchain
- A trust model used to mark time

These three elements solve the major three problems of distributed cryptographic general book.

- Sharing all transaction information in the past and creating storage function
- Updating rules of status and solving safety issue of data
- Using trust model to make transactions between members and completing validation steps

Blockchain is a software technology making data is shared through protocol on the network composed by multiple independent computers. Blockchain has three obvious characters:

(1)Openness

Openness refers to that information stored in blockchain is totally open to all participants. This is determined by peer-to-peer storage network method of blockchain. Each node can store a copy of the blockchain in the blockchain network. And the uniqueness of the blockchain ensures that this copy is exactly the same among different nodes.

(2)Security

Security means that encryption technique is used to store information in blockchain. Only members with password (private key) have access to read information.Other members are able to view and verify integrity and uniqueness of information but can't obtain private key.

(3)Being Immutable

Being immutable refers to that information stored in blockchain can't be tampered with. This means the space is immutable. All nodes only have the same information. It also means the time is immutable. The historical data can't be tampered with. Meanwhile, the blockchain is immutable, which also refers to the characteristic that the blockchain maintains a unique chain during its execution. If different chains appear, blockchain will produce a fork. And it will create copies of blockchain in two different spaces, which needs to be avoided through consensus rules. Blockchian offers a new model that created data is reliable. Since blockchain is open and transparent and the record of chains is irreversible, it changed the production method of data centralization. A credible, irreversible tamper-resistant data history is created based on it, producing a credible timestamp. It is gradually applied on the internet of currency, internet of assets and internet of everything，thus ushering in great changes of internet technology.

2.3 The Background and Key Moment of RealLink

At present, transactions in pan-entertainment industry are all executed in a centralized method. With the development of internet technology, transaction centers get more and more control on data, which weakens the fairness of transactions, transparency of data and credibility of historical information between individuals and transaction centers. Many individuals are losing their benefits. Meanwhile, all centralized transaction platforms have a monopoly on data and close their data, which also makes it impossible for centralized authorities do a research or analyze credits and risks of all participants. RealLink is created based on this situation. It manages to use

the new technology to solve multiple problems in new pan-entertainment business nowadays.

RealLink uses new technologies, combines with industry of high value, solves the biggest problem in industries of high value and aims at creating great value. RealLink technology will apply distributed intelligent algorithm as foundation, make full use of value of all participants and create value together. RealLink will use smart contracts and historical record of blockchain to forecast risk, solve trust issue in pan-entertainment industry and advance the development of business.

2.4 The Future of RealLink

RealLink targets applications in pan-entertainment industry at present. It is open to international social apps and other pan-entertainment content community apps at beginning. Those apps have numerous participants. RealLink will offer those apps of pan-entertainment businesses credit evaluation, risk analysis, fraud investigation and infringement investigation.

All participants of RealLink are also users of apps that join RealLink project. RealLink uses its own smart platform to evaluate all parties' credit and store those information inside blockchain. All participants of RealLink play the role of users of centralized apps and enjoy fun offered by pan-entertainment service supplier. Besides, they are also the participants of decentralized entertainment service platform who can invest in the finance industry of high value, smart contract funds and other various investment projects. RealLink will offer big pan-entertainment service supplier credit analysis, fraud investigation and infringement investigation. And the decentralized smart contract fund and finance service of low risk will also gain profits from it, which will reduce the whole society credit cost and create high profits of entertainment service so as to gain economic and social benefits.

3.The Technology Framework of RealLink

3.1The Applied Standard and Natures of RealLink

RealLink applies TRC20 standard and has the characters as below:
- Mainchain: TRON blockchain
- Name: RealLink   Abbreviation: REAL
- Maximum supply: 12 billion
- Account: TRON address
- Owner: offline signature wallet

RealLink team owns 2 billion coins. And it will be locked and will be released in five years, during which 20% of it will be released every year. The left 10 billion will be mined according to rules as below.

$$2500000000 \cdot \sum_{n=1}^{\infty} \left(\frac{3}{4}\right)^{n-1} = 2500000000 \cdot \frac{1-\left(\frac{3}{4}\right)^n}{1-\frac{3}{4}}$$

The formula as above calculates the total released amount of RealLink. RealLink will be released as planed. It will release 2.5 billion in first tier. And it will be reduced by 25% comparing to last tier. With it is unlocked more and more, it will reach 10 billion gradually.

RealLink tier change timing: When the tips are within 1 billion USD in RealLink ecosystem and each time it increases by 200 million, then one tier up. When the tips are from 1 billion USD to 10 billion USD in RealLink ecosystem and each time it increases by 500 million USD, then one tier up. When the tips exceeds 10 billion USD and each time it increases by 10 billion USD, then one tier up.

RealLink mining timing: RealLink will be mined according tips revenue through smart contracts. The mining amount can be calculated as above, for instance, tier 1: 2500000000/200000000=12.5 REAL/USD and tier 2: 2500000000* （3/4）/200000000=9.375 REAL/USD

RealLink wallet

RealLink is deployed in blockchain of TRON offering many offline wallets, including imtoken and tronlink. They cover Android, iOS, Windows, Linux and Mac. Over 130 million users in the world are able to use those wallets to complete transactions. RealLink can be transferred immediately because of high tps of TRON. Users don't need to wait for so long. Their RealLink will go to their wallets within few seconds.
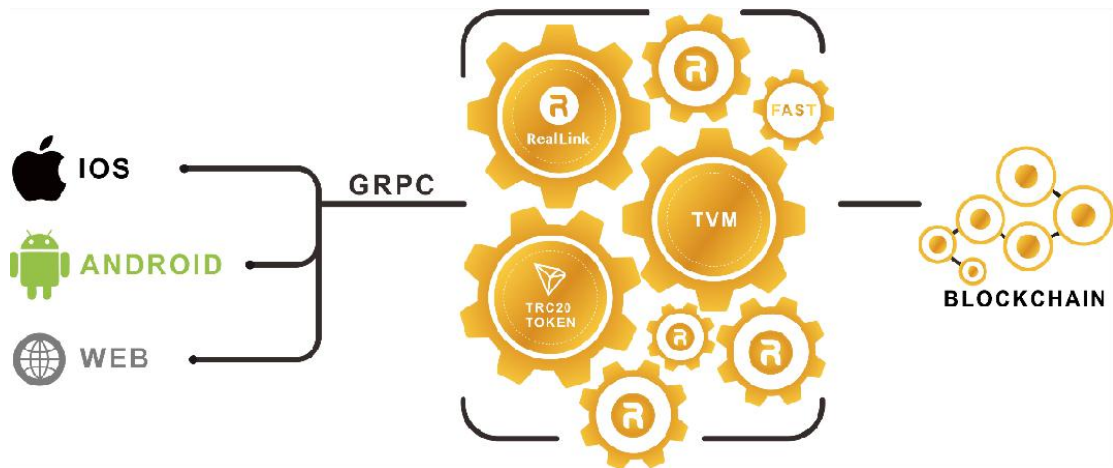
Users can also choose securer transaction method. The address is created offline according to disclosed protocol of TRON and transaction copy is created offline according to TRC20 protocol. Users choose one public node to broadcast your transaction copy and then complete their transaction when they didn't expose their private key. Users keep their RealLink in cold wallet in this way and hackers won't have any chance to attack your RealLink assets in the way as above.

3.2 Cross- chain Technology

If RealLink as a decentralized project is only deployed on one single public chain and this public chain is attacked by hackers or it suffers from any politic depression, it will bring bad effect to RealLink. Besides, if miner fee of this public chain increases rapidly, it is very unfair to our users of RealLink.

Therefore, our next plan also includes ETH, EOS, Binance Smart Chain, and Huobi Eco Chain. If the network of TRON meets any problem and can't make smart contracts of RealLink operate, we will start the cross-chain plan. The bridged networking built by us will make RealLink circulate in multiple public chains. It can't be denied that cross-chain technology will make it more difficult for users to use. It will cost us more to teach users. So we won't apply cross-chain technology in first version.

3.3 Application in Different Phases

RealLink protocol will be launched according to phases as below:

Phase test: We will provide few RealLink to the first group of apps that join RealLink. All records will be stored inside blockchain through smart contracts, which are stored permanently and can't be tampered with. All apps will pass the internal test and distribute those RealLink to users, which lay foundation for more apps next.

Phase 1: RealLink is launched officially and connected to apps or websites of all participants. All content creators will gain RealLink.

Phase 2: RealLink is on stock exchange. Content creators are able to exchange RealLink to any assets. So they will be encouraged a lot.

Phase 3: RealLink smart contract browser is launched, facing all users all over the

world. They can check every record and content on blockchain. Transparency is the foundation of trust.

4. The Advantages of RealLink

4.1   Blochchain is the Future

In past two years, we can see the research and application of blockchain technology boom. Every country's government, central bank, finance financial institutions, securities markets, technology companies, and capital markets have paid attention to it as well. It is considered as the fifth innovation after mainframe computer, personal computer, internet and mobile/ social internet. It is also the fourth milestone in the evolutionary history of human credit after blood credit, precious metal credit, and central bank banknote credit. Blockchain technology is the embryo of the next cloud computing. It will rebuild human society as the internet and turn to value internet from information internet at present.

Blockchain has the characteristics of decentralization, time series data, collective maintenance, programmability, security and credibility. Decentralization: The processes of verification, accounting, storage, maintenance and transmission of block data are all based on a distributed system structure, using pure mathematical methods instead of central institutions to establish trust relationships between distributed nodes, thereby forming a decentralization trusted and distributed system; time series data: The blockchain system uses a specific economic incentive mechanism to ensure that all nodes in the distributed system can participate in the verification process of the data block (such as the "mining" process of Bitcoin) , and use the consensus algorithm to select specific nodes to add new blocks to the blockchain; Programmability: Blockchain technology can provide a flexible script code system that supports users to create advanced smart contracts, currencies or other decentralized applications; Security and credibility: Blockchain technology uses asymmetric cryptography principles to encrypt data. At the same time it uses the powerful computing power formed by consensus algorithms such as the workload proof of each node in the distributed system to resist external attacks and ensure that the blockchain data cannot be tampered with and faked because of its high security.

4.2   The New Commerce Model

RealLink is the decentralized network based on blockchain technology where users can complete transaction directly.

4.3   Strong Technology Support

Blockchain technology is a universal underlying technology framework that can bring profound changes to various fields such as finance, economy, technology, live social networking, and even politics. According to the current development context of blockchain technology, blockchain technology will experience blockchain model 1.0 with the major character of a programmable digital cryptocurrency system, blockchain model 2.0 with the major character of a

programmable finance system and blockchain model 3.0 with the major character of a programmable society system. All those models are not evolving but parallel. The cryptocurrency of blockchain model 1.0 is far from mature. There is long way to the world currency. At present, there is a clear development trend driven by technological and industrial innovation in blockchain industry. But the relevant researches are very lagging.

The founding team is supported by many brick-and-mortar businesses and companies, and has strong financial competence. The online transactions and brick-and-mortar businesses are combined. The blockchain technology has some natural advantages to be applied in physical industries. The market coverage is rather big and the market expansion pace is efficient. In the early stage of token payment, the biggest problem lies in whether the participants take the lead in changing their business model, which will play an exemplary role and lay a solid foundation for integration of multiple platforms and cross-chain payment later.

4.4   No Competitive Companies Appear in the Market

In the field of "token payment" and "smart contract" transactions, the market is currently in a blank state. A small number of small startups that have emerged also have problems such as shortage of funds and relatively immature technology, which cannot meet the demand of the market. Therefore, there is no company with absolute advantages, and traditional leading internet companies have not yet focused on the blockchain field. Moreover, the scale is large, and the commercial risks that they have to bear for transformation are also great. They still haven't taken the first step easily, which provides the market with a rare opportunity.

4.5   The Big Development Space of Pan-entertainment Business

RealLink provides a solid foundation for various pan-entertainment businesses. At present, it is open to social entertainment products at begging, and the target will gradually get multicultural pan-entertainment products involved, such as games, literature, film and television, animation, and derivatives. From the initial independent development, it gradually moves to the stage of product linkage, mutual integration and development and sharing the economic benefits of the entire industry, forming an business cluster effect and creating huge economic benefits.

5. Risk Disclosure

Systemic risk refers to the possible changes in returns due to the overall common factors, which affect the returns of all securities in the same way. For example, in market risk, if the overall value of the digital asset market is overestimated, the investment risk will increase. And participants may expect the growth of private equity projects to be too high, but these high expectations may not be realized. At the same time, systemic risks also include a series of force majeure factors, including but not limited to natural disasters, large-scale failures of computer networks over the world, and political turmoil.

Risks of project coordination and marketing: RealLink ecological community will spare no effort to achieve the development goals in the whitepaper and extend the growth space of the project. At present, RealLink has a relatively mature business model analysis. However, in view of the unforeseen factors in the overall development trend of the industry, the current business model and overall planning ideas do not fit well with the market demand, resulting in the consequences of making profits difficult to be achieved. At the same time, since this whitepaper may be adjusted as the details of the project are updated. If participants do not obtain the updated details of the project in time or the public does not understand the new progress of the project, the participants or the public will not recognize sufficient knowledge of the project due to asymmetric information , which will affect the follow-up development of the project.

Hacker attacks and crime risks: In terms of security, the amount of a single supporter is small, but the total number of participants is large, which also puts forward strict requirements for the security of the project. Electronic tokens have the characteristics of anonymity and difficulty in trace, and are easily used by criminals, or attacked by hackers, or may involve criminal acts such as illegal asset transfers.

Other currently unknown risks: With the continuous development of blockchain technology and the overall situation of the industry, RealLink may face some unexpected risks. Participants are asked to fully understand the content of the project, understand the overall framework and ideas of the project, adjust their expectations reasonably, and participate in transactions rationally before making decisions.

6. Disclaimer Statement

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