White Paper

Introduction of Gstarcoin

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Ⅰ. Purpose of Development

1. Background and purpose of Gstarcoin

The history of money is long. Money has a history that is almost as long as human history. However, recent currencies have faced inflationary barriers. If money is needed, the central government will continue to take money and make it difficult to buy three eggs even if Zimbabwe gives $ 100 billion. The current key currency is US dollar, but the US is still issuing too many dollars. Scholars warn that the United States will also collapse. In Africa and South America, Bitcoin is more trusted and used than its own currency. Bitcoin is currently 21 million, and is preferred to its own currency because inflation of money can not occur. Moreover, Bitcoin is considered to be safer than its currency because it can exchange money anywhere in the world. A number of coins such as Ethereum and Ripple have been developed since Bitcoin was first developed in 2009. Bitcoin issued virtual currencies with the assumption that without a central government control, the world is all master, inflation-free, anonymity is emphasized, and it is used as a single currency without discrimination of nations. As a result, the response of the world people was hot. It has become a major currency of the virtual currency and has become the top of the virtual currency now causing great impact. Many virtual currencies were then developed because of Bitcoin. In this atmosphere, the virtual currency of a new technology called Ethereum appeared in 2015. Ethereum presented it to the public with a unique concept called Platform, not a virtual currency that only functions as a currency. Ethereum was introduced as a multi-functional virtual currency that measures performance, manages the process, measures the results, and provides payment functions beyond the function of currency. Many large corporations have begun to study this Ethereum and now become the second virtual currency. Since 2017 there has been no advancement in technology and virtual currency, and Cryptography which is likely to be used in real life has become an issue. Ripple, the third most traded coin in the world, rose 80 times in three months to the news that Google is investing. And Dash coin also rose tens of times to the news that Dash coin could also be used in APPLE's PLAYSTORE. Since 2017, virtual currency actually used in real life has become a valuable virtual currency.

Currently most virtual currencies are introduced as coins used in IT field and in artificial intelligence, IOT era. The world's industrial sectors are diverse, and in the fourth industrial age, virtual currencies suitable for each sector should appear. However, virtual currency is rare in defining certain fields and expanding them around it. They are just announcing the concept of using it only in the future. However, Gstarcoin is different. It clearly indicates its use and future.

2. Purpose and Usage of Gstarcoin

1) Purpose of development of Gstarcoin

Gstarcoin is not a Cryptocurrency developed only for trading or online shopping like existing Cryptocurrency. Gstarcoin is a coin that was created to solve problems such as international tourism, casino, trade, and interpersonal transaction because of the incompatibility between regions and between countries. For example, when foreign tourists travel to the Philippines, they face difficulties which do not know the transportation costs, or have no cash. In addition, when dealing in trade or when interpersonal transactions are conducted through banks or through money, it takes a few days and needs many documents to prepare and lags behind the competition due to time. We live in an era where information is shared by all over the world. So speed is very important. One means of resolving this speed is Cryptocurrency. Because it can be transmitted anywhere in the world in a few minutes. Also, even if you earn money from a casino with license, you do not declare income, so you have difficulty in exchanging money. Even if you earn money from a casino in the Philippines or Southeast Asia, you can not take your money abroad because you have not reported the profits. The company did not pay enough tax. In addition, to buy Lotto tickets or to receive services from the country, you have to wait in line at the store and many people are wasting time together. However, people from all over the world have smartphones. With this smartphone, we can solve many problems in the age of speed. In addition, Cryptocurrency is becoming a necessary means of trading in this age when all household appliances such as IOT, electricity, water, and gas are being automated. There are currently more than 1,300 Cryptocurrency registrations worldwide. Among these, the Gstarcoin was developed specifically for practical use. All coins except for the Bitcoin are traded at a trading price without any actual use. Coin prices rise by a factor of a dozen, even if the news is "only available from anywhere" in the newspaper. Ripple was only US$ 0.012 in March 2017, but rose to almost US$ 3.00 in Dec 2017 at the news Google and HP invested in it.

DASH coin was only US$ 10.00 in early 2017, but rose to US$ 2,000 in December 2017. This is a good example of the fact that the coin actually used dominates the market. Nevertheless, there are very few coins actually used except for Bitcoin. Cryptocurrency is a virtual currency. It is a very important means to transcend regions and nations and to shorten space and time. Nevertheless, we rarely use coin in practice.

It does not function properly as Cryptocurrency. Price of coins are fluctuating heavily in anticipation of the 4th industry such as robotics, automation, artificial intelligence, and fast trading. In this situation, Gstarcoin is the first to preoccupy the market with real coin. When all coins are focused on trading, but the Gstarcoin is intended to be used immediately after launching. We are thinking of activating the exchange based on this use. So we have worried about what we can use and activate in the real world. Among them, the Philippines has the largest number of casino licenses, so we chose the Philippines. Although it activates Gstarcoin at casino, it aims to become a coin that can be used anywhere in the world by making mobile cards with coin over time. Different countries have different currencies, different transportation systems, and different payment methods. If you do not exchange local currency, you will not be able to receive any services or purchase goods. This is the most primitive phenomenon in the global era. To solve this problem, we need a coin that can be used anywhere in the world. Gstarcoin is aimed at the coin of such integration. It is a coin that can be used by tourists anywhere in the world. Therefore, Gstarcoin can be defined as the culture and tourism coin. Business trading or interpersonal trading is a thing of the future. The goal of Gstarcoin is clear. It is the culture and tourism coin all over the world. Culture and tourism are huge markets and fields that all nations cultivate. Even though country's technologies are lagging behind, all countries have their culture and tourism. We aimed to be the first to target the Philippines as a culture and tourism coin. The Philippines is a tourist country and is interested in securing taxes. Compared to other countries in particular, the Philippines is open and has good skills and ideas. Success in the Philippines can quickly expand to neighboring Southeast Asian countries. This means use worldwide. This is because people from all over the world visit Southeast Asia and other Asian countries.

2) Main use of Gstarcoin

Gstarcoin is a coin that will be used mainly in culture and tourism. Gstarcoin can be used in various fields such as casino, Lotto, travel, shopping, world donation, unification of world traffic charges, prepaid mobile card, trade and so on.

It is the culture and tourism coin that is used in Asia and the world based on 600 million Southeast Asian markets. Experts say the global tourism market is big enough to account for 10% of GDP and employment. You can see how the tourism market has a big impact on the world. According to the South China Morning Post (SCMP), Hong Kong's daily newspaper, the number of foreign tourists in China by 2015 is estimated at 127.7 million, and the amount spent by them is US $ 292 billion. It also accounts for 23% of overseas tourism spending worldwide.

Gstarcoin initially pioneer the markets of the Philippines and Vietnam in the Southeast Asian market, but its users are aiming at 1.4 billion Chinese population and gradually expanding to 4.5 billion Asian population. Although Southeast Asia is less developed than IT, everyone has a smartphone. Smartphone is the peak of IT equipment in this age. Smartphones can do almost anything including calls, shopping, information searches, and payments. In particular, Chinese almost use smartphones to pay for goods with Alipay or WeChat pay. They rarely use credit cards. This is possible because of smartphone. Southeast Asia like China, can make all payments possible through the smartphone's Pay function. Coin can be used as a means of paying all fees, regardless of country.

We want to use Gstarcoin as one of such payment methods. Regardless of national currency type, the currency of the country is automatically calculated by coin. The price of coin is based on the exchange in the country. Countries without exchanges must first operate the exchange through government approval. Especially if there is full support from the government, It is easy. In Southeast Asia, the billing systems are different in each region, and all must use traffic by cash. However, if smartphones and coins are used for it, it is possible to unify the nationwide traffic charges with a low cost investment. Everything can be paid by smartphone. If the billing systems are unified and available in many countries, then everyone can use coin. It will not be used by many at first, but if the country is actively pursuing it, it can be built with a low cost of investment and in a short time. This is possible because everyone has a smartphone.

Although only a few days ago, credit cards were popular, but many people became credit freaks because of credit card abuse. However, due to the rapid spread of smart phones, smartphone's payment methods are becoming more popular nowadays. China has already entered such a time. Credit cards can only be paid in small amounts overseas. Therefore, people's activities were restricted.
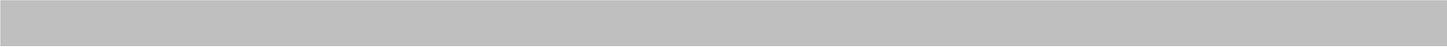
However, with the advent of Cryptocurrency, the amount of usage has greatly increased. Almost all of his money was available overseas. Already we are using it in business trading. Gstarcoin can become a smartphone's payment tool that can be paid worldwide right after it is activated around Southeast Asia. It replaces various cards and coexists together. Within 10 years the world will bring about a big change in the means of payment. All of these will become electronic and transactions through smartphones will become commonplace. We believe coin will do just that.

1. Basic skills of Gstarcoin

We have made the Gstarcoin to strengthen and expand the welfare of mankind by going beyond culture and tourism around the world. The meaning of Gstarcoin is a combination of Global and One. It means that the world is one. The world is becoming one with smartphone. It is as if Galaxy's numerous stars gather to form a Galaxy. The smartphone is the star and the world is one Galaxy. If at least some of the world can be unified through the Gstarcoin, it will be very exciting. coin can be used for bad transactions depending on usage, but if you use well, we can solve various problems of mankind. Especially in a rapidly changing era, it can achieve dramatic development in various places such as taxation of the country, activation of culture and tourism, activation of the transaction of trade, activation of interpersonal transaction, and activation of trade among foreigners. Especially where IOT or automatic billing systems are needed, It is more needed. The use of Gstarcoin can play an important role in bringing together the will and wisdom of mankind. This is because the use of Gstarcoin can have a sense of identity. In the past, illegal exchange of money can be changed legally by using the Gstarcoin to be charged the tax and free to use the assets of individuals. This is possible because there is an exchange of Cryptocurrency. A new era of the Fourth Industrial Revolution is coming, and we should not try to solve it by restricting it. Already we are in an electronic payment era like Cryptocurrency. From the centralized banking concept to the peer - to - peer concept, it is time for everyone to become the owner. Over the past 30 years, our world has become one with the Internet, and we are in the era when the world becomes one with Cryptocurrency.

Gstarcoin is a block chain based Cryptocurrency like Bitcoin. While Bitcoin updates the block chain book every 10 minutes, our Gstarcoin is renewed every minute. Of course, in the early days, coins will be sent and updated within a few seconds. But as it gets more globalized, it will slow down. The average speed is expected to be 1 minute. If the exchange is authenticated a few hours later, of course, the transfer of the coin takes so long. This is not a problem of technology itself, but a problem of exchange management.

Gstarcoin's total future mining capacity is 1 billion. Because Gstarcoin is intended for use, pre-mining is required for the use of casinos, lotteries, tourism, donations and mobile electronic cards.

< The amount of mining of coin in 150 years >

Amount of mining(%)

Mining duration (years)
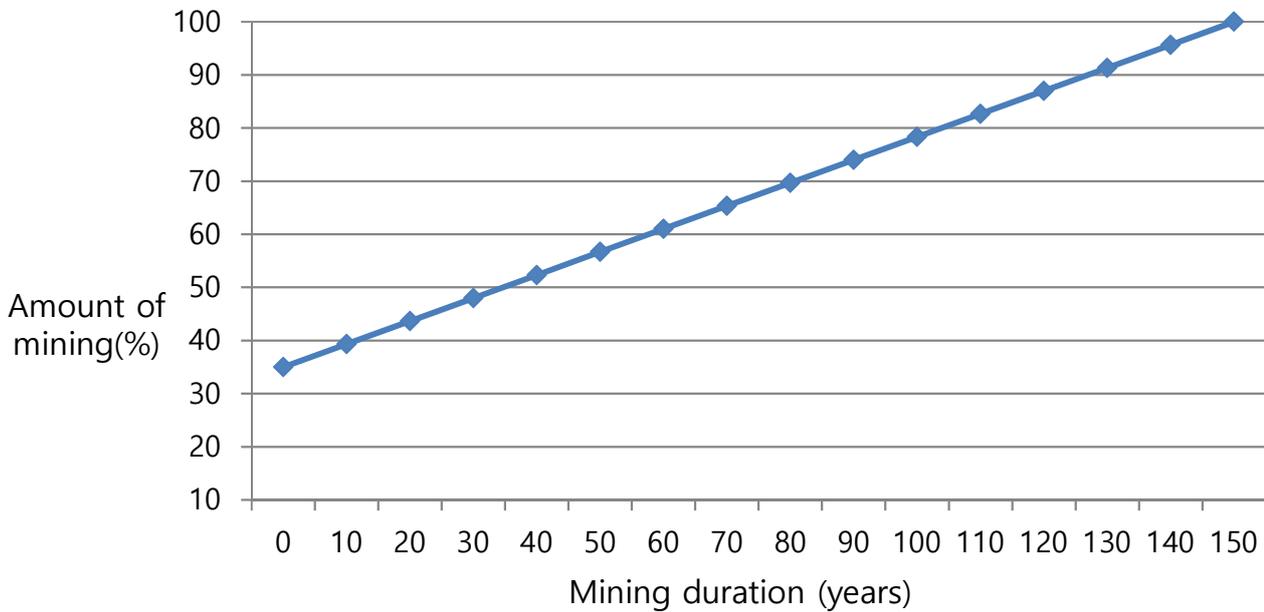
Because these markets require many coins at the same time, they must be pre-mined in large quantities. Therefore, it is inevitably pre-mining 35% coin. The remaining 65% should be mined for about 150 years. This is obvious due to the nature of the block chain.

Our Gstarcoin's algorithm is the Dash series X11 algorithm. As is well known, the Dash family of X11 algorithms is more secure than Bitcoin. X11 is the name of a chained hashing algorithm, which is used for the 'Proof of Work' calculations which secure the network of some cryptocurrencies. It is known as a chained algorithm because it uses 11 different algorithms which are chained together. These are blake, bmw, groestl, jh, keccak, skein, luffa, cubehash, shavite, simd, and echo. The mining amount will be 360,000 monthly, and the half-life will decrease by 10% every six months. While most coins, such as Bitcoin and Etherium, have begun to be used after a few years of pre-mining, our Gstarcoin has to be used in many cultures and tourism at the same time as it is mined.

While most coins such as Bitcoin and Ethereum have begun to be used gradually after years of mining, our Gstarcoin has to be used in many places such as casino, travel, interpersonal transaction, trade, donation, Lotto, so we need a lot of mining first.

Many coins, such as Bitcoin and Ehrereum, are taking the proof of work (POW). Since this is not a coin to use from the beginning, it is suitable for the POW(Proof of Work). Because everyone is mined and started to use it little by little.
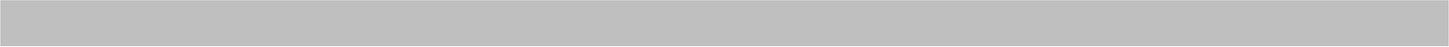
However, once the mining is almost complete, the difficulty of mining becomes higher, mining reward is lowered, and mining becomes more difficult. So, after a lot of mining is done, It will be converted to POS(Proof of Stake). The POS (Proof of Stake) method is not a compensation to the miners but a compensation to the coin holder who has a certain amount of stake. Since our Gstarcoin is mined in large quantities in the early days, it follows the POS (Proof of Stake) method. However, since continuous mining is also necessary, we will use Hybrid certification method that combines POW and POS.

2. Definition

Block

The transactions history is permanently recorded in the network through items called blocks. A block is a record of some or all of the most recent transactions that have not yet been recorded in any prior blocks. Each block memorializes what took place immediately before it was created.

Transaction

A transaction is a signed section of data that is broadcast to the network and collected into blocks. It typically references previous transaction(s) and dedicates a certain number of Gstarcoin from it to one or more new public key(s). Currently there are a few transaction types possible.

User operation

This transactions are typically used to redeem Gstarcoin from unspent inputs. It generally references unspent input(s) and creates a new output(s) with specified value(s) an destination(s).

Coinbase

Coinbase have a single input, and this input has a 'coinbase' parameter instead of a scriptSig. The data in 'coinbase' can be anything; it isn't used. Gstarcoin puts the current compact-format target and the arbitrary-precision 'extraNonce' number there, which increments every time the Nonce field in the block header overflows. The extranonce contributes to enlarge the domain for the proof of work function.
This transactions are used to reward the Proof-of-Work miners. Proof-of-stake blocks have the coinbase transaction too, but with empty output.

Coinstake

This transactions are used to provide a suitable proof for Proof-of-Stake block header. This type is similar to user transactions, but with some differences.
• First output must be empty;
• First input of this transaction is required to satisfy a current Proof-of-Stake difficulty
• It's allowed to generate new coins through paying a negative fee.
• A destination of the second output must be Pay-to-Pubkey

3. Block-chain and Transaction

The above diagram is a diagram of what happens when you send encrypted money. When A creates a transaction to send money to B and propagates it to the block-chain network, the node that generates the block collects the transactions and stores them in the block. At this time, the verification of the transaction is performed separately, such as whether the balance of A is sufficient or not used as a duplicate, and the verification method will be different depending on the transaction.

Then apply the transactions to update its balance DB and propagate the blocks to other nodes. Other nodes update their balance DB according to the propagated block data and store the block. Balance DB and transaction history DB of all nodes are now updated. The fact that the book has been renewed means that the transfer is complete.

4. NODE

Node keeps a history of transactions and accepts transactions. In addition, Node has two databases: a database that holds transactions and an application database that applies stored transactions to applications. And The database that holds the transaction list has a block-chain structure. Each block has an ordered transaction list, and each block is linked in order of time. Network Full nodes are servers running on a P2P network, that allow peers to use them to receive updates about the events on the network. These nodes require significant amounts of traffic and other resources that carry substantial cost. As a result, on the Bitcoin network a steady decrease in the amount of these nodes has been observed for some time and as a result block propagation have been upwards of 10 minutes. Now Bitcoin transaction approval is very slow. So, This is some problem to trade and use the coin in the crypto currency world. But X11 is 10 times upgraded version than Bitcoin method. X11 is updated every minute. And since it is supposed to be used by many users in the real world, the node is hardly monopolized by users. It will be supplied to many users so that they are not monopolized. If someone wants to control 50% of the node network, they would have to buy 50% of the coin mined in the open market. This would raise the price substantially and it would become impossible to acquire the needed Gstar. Also, since the Gstar will work in conjunction with a reliable bank, the node will not hold unless the bank permits it. The difference between the Gstar and other cryptography is that it is actually used offline and made on demand. Nodes can provide any number of services to the network.

By utilizing what we call proof of service, we can require that these nodes are online, responding and even at the correct block height. All work done to check the network to prove that nodes are active is done by the node network itself. Approximately 1% of the network will be checked each block. This results in the entire network being checked about six times per day. New clients entering the Gstar network must be made aware of the currently active nodes on the network to be able to utilize their services. As soon as they join the network, a command is sent to their peers asking for the known list of nodes. A cache object is used for clients to record nodes and their current status, so when clients restart they will simply load this file rather than asking for the full list of nodes.

5. Payments via Mining

To ensure that each node is paid it's fair share of the block reward, the network must enforce that blocks pay the correct node. If a miner is noncompliant their blocks must be rejected by the network, otherwise cheating will be occurred. When mining on the network, software use the RPC API interface to get information about how to make a block. The Gstar is a hybrid system that combines POS and POW. POS is "Proof of Stake", which receives interest as much as stake.

Proof-of-Stake

Proof-of-Stake is term referring to the use of currency itself (ownership) to achieve certain goals. In the Gstarcoin Proof-of-Stake is used to provide mining and transaction processing on a par with Proof-of-Work. Gstarcoin uses the mixed coin-Age/coin-Day Weight approach to provide proofs of the stake. The Proof-of-Stake difficulty is adjusted so as to limit the rate at which new blocks can be generated by the network to regular target spacing rate. Due to the very low probability of successful proof generation, this makes it unpredictable which computer in the network will be able to generate the next solution.

How it's supposed to work?

It's performed through scanning all available inputs in order to find lucky one that satisfies following condition:

$$SHA256(SHA256(KERNEL)) < coinDay\ Weight\ *\ Network\ Target$$

Miner has to find a SHA256 hash that is under the target value. Target is derived from network target using coinDay Weight parameter.

The proof is presented by kernel hash and header signature. Each coinstake kernel represented by structure of 6 fields, a some of this fields could be varied pretty freely.

When can user start generating Proof-of-Stake blocks?

If user have balance then Gstarcoin would automatically try to generate proof hashes for user. If user find a stake the reward is calculated using current Proof-of-Stake difficulty and coin-Age amount consumed. The reward amount is added to user's stake amount and is shown together in the stake field of get info output.

What about rewards?

Block reward is based on coin-Age parameter and Proof-of-Stake difficulty. A reward can be calculated using formula.

$$\text{nProof Reward} = \min(10, \text{coinAge} * (0.03125 / \text{difficulty}) \wedge (1 / 3) * 33 / (365 * 33 + 8))$$

In other words, a reward is limited by 10 coins value, starts from 1 coin per coin-Year and cut a half every 8x multiply of difficulty.

On the other hand, POW is called "Proof of Work" and is called "mining" as a proof of work.

Proof-of-Work

Gstarcoin uses the hashcash method to provide proofs of the work. The difficulty of this work is adjusted so as to limit the rate at which new blocks can be generated by the network to required target spacing rate (from 10 to 30 minutes). Due to the very low probability of successful proof generation, this makes it unpredictable which worker computer in the network will be able to generate the next solution.

How does it work?

Each block header represented by structure of 6 fields, a some of this fields could be varied pretty freely. The hashing result of a valid Proof-of-Work value must be lower than current target.

Miner tries to find this suitable solution by scanning all possible nNonce values (from 0 to UINT_MAX). In case of overflow the new coinbase transaction will be created. This allows miner to replace a value of new merkle tree hash with a new one and start nNonce scanning from zero again. Adjustment of timestamp is also possible.

What is Merkle tree?

Merkle trees are constructed as shown below. Leaf nodes are hash values of a block of data (a set of files or files), and each node represents a hash value of a child. The top of the parent node is called top hash (root hash or master hash). After hashing each attribute to create a binary tree, use top hash to verify the message. The verification method using the Hash Tree is called Tree Authentication. The most important thing in Tree Authentication is top hash authentication. Merkle assumes that the verifier has the correct top hash value and authenticates the message. The biggest difference between a hash tree and a hash list is that can check the integrity of each point with a branch of the hash tree, even if the entire tree is unavailable. The main purpose of the Merkle tree is to detect missing parts of data transformed between computers or transactions and to synchronize them to the latest state.

What about rewards?

Block reward can be calculated using formula.

$$nBlockReward = 100 / (difficulty / 0,000244)\ {}^\wedge\ (1/6)$$

This means, that reward starts from 100 coins and cut in a half every 64x multiply of difficulty.

6. Improved Privacy and security from Hacking

X11 was developed in order to overcome some significant drawbacks associated with previously used Cryptocurrency mining algorithms such as SHA-256(example; Bitcoin) or Scrypt (example; Litecoin, Dogecoin). X11 is the name of a chained hashing algorithm, which is used for the 'Proof of work' calculations which secure the network of some cryptocurrencies. It is known as a chained algorithm because it uses 11 different algorithms which are chained together. So, X11 has a very high security.

The use of 11 different algorithms also increases the security of coins using this method against brute force attacks. A transaction can be formed by multiple parties and all transactions are setup for users to pay themselves, the system is highly secure against theft and users Cryptocurrency always remain safe.

7. Benefit for the mining and electric power

X11 is a widely used hashing algorithm known as algorithm chaining. for Bitcoin, mining began with miner which used CPUs to mine the currency, then shortly after GPU software was created, which quickly replaced the CPUs. Years after the GPUs cycle, ASICs or Application Specific Integrated Circuits were created, which quickly replaced the GPUs. Due to the complexity and die size required to create an ASIC for mining X11, we expect that it will take considerably longer than it did in Bitcoin, allowing for miner to take part in the mining for a longer period of time. Mining centralization reducing network security, reduces the number of people with a stake in running the network who naturally become its advocates, and may increase the likelihood of mined coins being instantly 'dumped' as businesses need to cover costs and take profits whereas individuals may not have to. By designing the X11 algorithm to be well suited to use with general purposes CPU processors, and by cycling through many different algorithms rather than using a single algorithm, it makes it difficult for manufacturers to develop ASICs for coins which use this algorithm. Although it is possible that ASICs will eventually be produced, X11 coins are expected to remain ASIC-resistant for at least the short and medium term future.

8. Efficacy of Gstarcoin's Technology

Gstarcoin is a virtual currency essential to the Internet and mobile era. Now, in the name of the Internet, all electronics are connected to each other over the Internet, and customer service, performance measurement and payment are all automatically calculated and paid. We call this the Fourth Industrial Revolution. It's time for people to pay for goods or services on their mobile or computer, not when they go to the bank to send money through a banker.

With Gstarcoin, people around the world can buy goods or get services without going abroad. You can also go to another country and get services without exchanging money. If you have an Gstarcoin, you can buy goods or get services in China even if you do not have dollars or currencies.
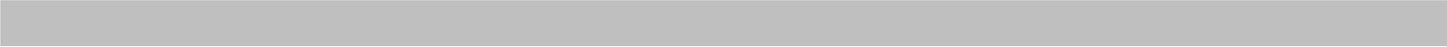
Now people are uncomfortable about carrying unnecessary copper coins or paper money. The government says it will not use copper coins soon because unused copper coins are expensive to produce and people do not use them much. Copper coins disappear and bills disappear.

For now, you need virtual coin of Gstar. Gstarcoin do not inflate because of limited money. Users can pay with just one button anywhere in the world. Fees are cheaper. It can be used for all health and medical services. In addition, when the world is automated, virtual currency becomes more necessary. 24-hour payment is available. You do not have to carry cash like dollars. No coins needed. Gstarcoin can take the place of dollars and can replace the currency of each country. Gstarcoin is an essential currency in an automated era.

Now is the time when virtually used virtual currency is valued. Many coins will appear in the future, but coins that are not actually used will be culled. Gstarcoin is good because it focuses on health and welfare. Also, because it is actually used in the Chinese medical complex, the investment value of coin is high.

Now you can automate public billing and billing services. 24-hour payment is available. You do not have to carry cash like dollars. No coins needed. The Gstarcoin is not a substitute for dollars, but a means of assisting cash like dollars. The Gstarcoin is an essential currency in an automated era.

We are now experiencing a new technology called block chaining. Block-chain technology is a currency technology that is recognized by the parties involved without a central government. This block-chain currency is also known as Crypto Currency. It encrypts users' transactions and transmits them to and from each other. The encrypted transaction of these users is called & quot "TXID (Transaction ID)". And then You can confirm that transactions are normal or abnormal by entering "TXID" and "TXID" into the website with information on the block chain. If "A" is successfully transferred to the electronic wallet address of "B" from the electronic wallet address of the person A, this "TXID" is confirmed as a successful transaction. It takes about 10 minutes for Bitcoin to recognize "TXID" which has deal information of A and B normally. However, in the case of the Gstarcoin it takes a minute. Gstarcoin is a Crypto Currency that updates transaction information much faster than Bitcoin. The faster the transaction information is updated, the faster the transaction.

In some cases, the actual transaction may be delayed even though the transaction information is updated at a high speed. This is not a problem of the block chain, but a problem of the exchange trading service of Crypto Currency. It is a phenomenon that occurs because each exchange takes time to authenticate a transaction. This means that the more users there are, the longer the time the Crypto Currency is transferred between users. To solve this problem, the exchange that deals with the Gstarcoin will be approved quickly. Unlike paper currency, Crypto Currency is a single currency that can be traded around the world. We still use electronic money provided by banks through computers and mobile. Crypto Currency is not a new concept. We are already using this. There is only a central bank or not. Obviously Crypto Currency will support paper currency.

Ⅲ. Usage and main functions of Gstarcoin

1. Gstarcoin use a block chain's technology, and it can be used in various online games.

Even if the online casino's business is legally approved by the government, it is difficult for the government to estimate total sales or profits. As a way of solving this problem, we can estimate the profits of companies by applying the government-designated coin to online casinos and games. This is also a way to legalize all of the casino business. Taxes can be secured with transparency, and casino funds are legalized. This is a problem all over the world, and coin can solve all of this.

2. Gstarcoin allows people from all over the world to participate in culture.

Existing cultural performances purchase tickets through the Internet. However, tickets for the performance of that country can only be purchased in the currency of the country. However, Cryptocurrency allows people around the world to purchase tickets. Cryptocurrency is a single currency that can be used by people all over the world. The same applies to Lotto tickets. Still, Lotto tickets must be purchased in line at off-line stores. However, if the state changes the Lotto to the Internet, you can buy Lotto tickets anytime, anywhere, and the amount of Lotto purchases will increase and the amount of donations will increase accordingly.

3. Gstarcoin can unify the transportation systems of different world.

We use public transportation to go to or from any country. You do not know what the price is and you should only use cash. However, people all over the world have smartphones in both rich and poor countries. We can use this smartphone to unify the global transportation system. Using coin, we can make billing regardless of country. No matter what country you go to, you do not have to worry about how much you charge. It only needs an inter-state commitment. Smartphone programs are easy to develop because they are easy to apply and do not cost much. Only the will of the state is needed. People can buy daily necessities as well as public transportation. It is the most difficult when you are traveling overseas. It is money. Without the currency of the country, tourists can not freely enjoy shopping or culture. These systems will be used first in some countries because they are not costly. This is likely to be used first in tourist countries.

4. Gstarcoin can be used to collect investments in various small and medium-sized businesses.

Many companies around the world are working to get the investment. Some countries have a good investment climate like the United States, others have a large population like Vietnam or India, but some countries have poor investment environment. Many investors in the global community want to invest in a good company not only in their own country but also around the world. It is natural that investors are interested in foreign investment in the global society. However, the existing method differs from country to country, and investment requires complicated procedures and examination. Even if you are looking for a good overseas company, the investment process is complicated, you have to worry about how to get the stock, how to get the stock back, and it is very difficult to recover the investment. However, using Cryptocurrency makes all of these complex procedures very simple. You do not have to report to the country you are investing in, only you shall buy the Cryptocurrency that the company has without having to go through complicated procedures through the bank. All you have to do is trade the investment and the new Cryptocurrency. If investors have stocks in return for their investments, it will take a long time to dispose of them. At least the company has to wait until it is listed, which usually takes three to ten years. On the other hand, if Cryptocurrency is only registered on several exchanges around the world, it will take six months to a year to get the money back. Therefore, Cryptocurrency is a very good investment tool to complement the shortcomings of the stock market. Above all, investment through Cryptocurrency can be expected to be short-term investment and quick recovery, and any company with information in the global society can be invested.

Cryptocurrency not only allows you to invest effectively in your enterprise, but also allows you to invest in good items. You can invest in a good item and Cryptocurrency by purchasing a new Cryptocurrency such as Gstarcoin and making this money used for good item investment. If the Cryptocurrency is also registered in the exchange, the investor can withdraw the investment through the exchange at any time. Cryptocurrency allows investors to make investments and withdraw their investments through the Internet exchange even if they do not go to the country they want to invest in. Of course, if such a system is utilized, an investment brokerage company also can be activated.

Gstarcoin will cooperate with the company having biotechnology in Asia to raise money for production and using it. This biotechnology company is related to human food. After it purchases raw materials and commodifies them, sells them, and makes profits, and then give to investors cash and Gstarcoin.

This is just one example and we are preparing to apply the Gstarcoin, the Cryptocurrency, as a way of investing in many companies. We anticipate that this new investment system will become an important investment trend in the rapidly changing fourth industrial society.

5. Gstarcoin can be used as trade deal.

Traditionally, trades are created through a two-company document, an expensive commission from the bank, and a long-term certification process. This traditional trade transaction method is suitable for large-scale logistics transactions. However, in today's rapidly changing times, small-scale trade develops by testing products in the market or by producing small quantities of various types of products. At this time, it takes a long time to carry out trade transactions through the banks as in the traditional way, and the companies or banks that do trade are cumbersome and inefficient. These small transactions require streamlined procedures and fast transactions. What you need is virtual money. Gstarcoin is suitable for these frequent small transactions. The Gstarcoin used for small transactions has very few transaction fees, and the transaction speed is incomparably fast. The transaction takes place in just a few minutes. The Gstarcoin is designed to coin authentication every minute, but it can take several minutes to reach the computer and internet speeds in different areas.

6. Gstarcoin is a coin optimized for international e-commerce.

International e-commerce transactions are often referred to as "foreign direct purchases." These foreign direct purchases are very vulnerable to people who do not have credit cards. If you do not have a credit card, you will not be able to buy what you want with different currencies. However, Gstarcoin is a single virtual currency regardless of the currency of each country, so you can purchase goods from Internet shopping malls of any country. Also, it is much cheaper than the credit card fee, so there is no burden on the buyer.

7. Gstarcoin is a transaction optimized for interpersonal transactions.

There are a lot of individual transactions every day including the used market all over the world. The Internet has greatly facilitated such inter-personal transactions. However, the problem is always an uneasy market because we deal with the other side in cash. If you pay in virtual currency instead of cash, you can relieve some of the anxiety of trading in cash, which can make the transaction more active and the market bigger. That's exactly what Gstarcoin can do.

8. Gstarcoin can make a big difference in donation culture.

There are a lot of words about donation, whether it is a real donation or a fake donation. The reason is that if you make a donation, you will get tax benefits. However, Gstarcoin solves all of these disputes. Those who do not need to pay taxes are really donating, so if you donate with Gstarcoin, you do not need to argue with the tax authorities. This is because Gstarcoin can donate directly without filing a tax return. Gstarcoin also has anonymity, so if you really want to donate, do not leave a name. Gstarcoin can make anonymous donations anywhere in the world with a single currency around the world. Of course, even if the amount is small, you do not have to worry because it is anonymous. Rather, it makes donations more active.

9. Gstarcoin can unify small sum payment systems with different systems from each other.

There is a need to unify the payment systems in different countries by using public transportation between regions and micropayments of less than $ 5. However, Gstarcoin is very easy to integrate with coins when combined with debit cards associated with bank accounts. In addition, since the amount remaining after small payments can be used elsewhere, it becomes a convenient system for the people. It is also available for cross-country use. A single currency, Gstarcoin, is available for both regional payments, as well as transit or small payments across countries.

10. Gstarcoin can easily ESCRO without documentation or legal preparation.

ESCRO is often used for company-to-company and individual-to-individual transactions. Normally, when ESCRO is used, many lawyers are used. However, Gstarcoin can safely use ESCRO through a simple computer selection without any legal process. If the customer chooses ESCRO, Gstarcoin will be on ESCRO books and will not be paid to the customer until the customer accepts it. This is a system that is simply a click away. ESCRO is available for a small fee, so anyone can take advantage of these features. Of course, this should be installed in each shopping mall or mall you want to service.

11. Gstarcoin applies to customer service that does not have a credit card.

Gstarcoin can provide good service to customers who do not have credit cards and foreign customers. Because Gstarcoin is a single currency internationally, such payments are possible.

12. Gstarcoin is suitable for payment of various information and contents.

In the present era, we want to obtain various information and know-how rather than goods through international transactions. At this time, Gstarcoin is a very suitable payment instrument. It is a means to pay regardless of currency or language.

Other uses of Gstarcoin are too many to list. In this age of rapid product development and short product lifecycle, virtual money such as Gstarcoin is the most necessary and well-used means.

13. Smart contract

Block chain technology can be applied in many places. Recently, smart contracts are emerging as issues in banks, businesses, and transactions. Gstrar coin is interested in this smart contract. We intend to enter the smart contract market using the block chain technology for smart contract.
A smart contract is a technology that when the conditions are met among trading partners, transactions are automatically completed. However, the block chain technology is not just for automated transactions. The Block chain technology can be used to prevent counterfeiting and can also be used to guarantee anonymity. Block chain technology can be applied in many real-life situations. It can be applied in a variety of places such as inter-company transactions, interpersonal transactions, official documents, military purposes requiring confidentiality, or authentication of public institutions. The block chain technology will be applied in more places than we think. Gstar also wants to play one of them. Now we don't say where to apply Gstar in smart contracts, but it will be applied in a variety of applications. In addition, we will expand its utilization by exchanging with many block chain experts around the world.

# IV. Status of Target Market

Casino Market

The casino market in the world where Gstarcoin is going to enter is difficult to calculate accurately. However, according to various sources, Macao is US $ 30 billion a year and Las Vegas is US $ 9.36 billion a year. On the other hand, the Philippine online casino market is estimated at US $ 46.8 billion a month. The reason why the Philippine online casino market is so big is that the Philippines is a country of tourism and it is flexible enough to allow the casino of companies all over the world. The Philippines is the most active in legalization.

Lotto market

In the case of the Lotto market, some winners are announced daily depending on the country, and Southeast Asia is especially in demand for Lotto tickets. The less developed countries are higher in their desire for Lotto tickets. Of course, like the United States, the advanced countries have a lot of enthusiasm for the Lotto because of the large amount of Lotto win. But like Southeast Asia, it is not as active as buying Lotto tickets every day. If the state creates a structure to buy Lotto tickets as virtual money, the Lotto market will be more active. The only thing that can be achieved is to buy the Lotto on the mobile so that you can buy it anywhere, not just in the Lotto at the store. In this case, even assuming that the Lotto is only 20% of the country's population, the market for virtual currency will be enormously active. For example, if the population of Philippines is informally 200 million people, 40 million people buy Lotto tickets every day with coin. In India, for example, 260 million out of 1.3 billion people buy daily Lotto tickets.

Transportation fee

Most countries have a different billing system for public transportation charges, so most of them have to pay in cash. In the absence of a small amount of cash, it is often difficult to use public transportation. Therefore, if it is possible to apply the smartphone and coin to public transportation anywhere in the world, there will be no good system like this. Gstarcoin is going to enter this market to activate coin. We are looking forward to such a coin that 7 billion people use.
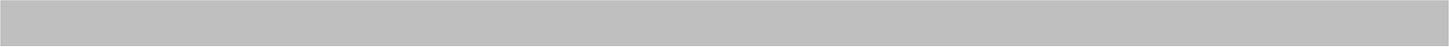
In addition, Gstarcoin aims to make coins that can be used anywhere in the world, such as mobile cards, by entering accommodation, shopping, education, donations, concert tickets and trade markets.

Ⅴ. Conclusion

Gstarcoin

Gstarcoin is a coin made for the purpose of culture and tourism. In the future, the IT industry such as artificial intelligence, robots, automation, IOT, and security will rapidly develop in society. Speed here is a very important value. In this age of speed, electronic money is indispensable. The first attempt to do this is Bitcoin, and the Bitcoin is gradually evolving into Gstarcoin. Because everyone has a smartphone, coin will be used as a quick and accurate payment method. Bitcoin has already begun to be used in real life. We are even using it to trade. In this dimension, Gstarcoin is a Cryptocurrency that is produced for immediate use in real life. The purpose of this coin is to focus on tourism and culture. The tourism and cultural market is an area that all countries consider important. A poor country or a good country all have their own assets. For tourism, casino, travel, shopping, and transportation fees are applicable. Cultures include performances, donations, education, lotteries, and games. Gstarcoin will be used in these places. It will be used first in Southeast Asia and will expand to Asia including Korea and Japan. Of the more than 1,300 Cryptocurrency, nothing is made for culture and tourism. There is nothing in culture and sightseeing that mankind harmonizes and cooperates with each other to make future society. Our Gstarcoin is a coin made for the purpose of culture and tourism.

Gstarcoin is a virtual currency of the Dash series based on a block chain. Gstarcoin is more secure than Dash. The total amount to be issued in the future is just 1 billion. The update speed of the block chain book is very fast as 1 minute. Initially, the trading speed of Gstarcoins will be transferred within a few seconds. However, as users become more globalized and more sophisticated, their speed will be slower.

Now is not the age of coin of technology value. Which coin is used becomes an important age. The coin actually used becomes the era of worthy coin. In that sense, Gstarcoin has value as a coin actually used. Gstarcoins will actually be a few valuable coins in the world in that they are used for health and wellbeing.