White Paper

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1. Introduction

Nowadays when the amount and availability of coins, especially tokens, is unlimited the real differences between them is clearly visible when their usefulness is tested. The problem is even more pronounced when a safe and anonymous space is taken into consideration as the most important factor ensuring usefulness and accessibility of tokens. In the era of constant surveillance and eavesdropping, protection of security and privacy is priceless. Therefore, we have undertaken a new coin construction aimed at ensuring anonymity as a overarching goal and benefit from this anonymity. This is one of the reasons why we decided to go back to the the orgin of the coin we are forking. Simply , our goals is to create platform acceptable level of anonymity for ever. Gemlink - is a new cryptocurrency based on Zcash and indirectly on Tent (former Snowgem Coin). We do hope that the new platform will combine the possibilities of anonymity and privacy on the token market. Planned platform is designed to allow easy and transparent transfers funds, make payments for services, convert tokens into gemlink and vice versa, send documents and files, but also create and provide the project with an appropriate level of security and anonymity.

2. Description of the ecosystem and its development for the near future.

The basis of our ecosystem will be the Gemlink coin, directly related to Zk-SNARK technology thats why we forked from Tent coin. Gemlink is supported with Thor Hammer Security (51% - attack), mastenode system that allowed us to expand amount of active nodes and voting system.

2.1. Zk-SNARK - the technology on which our coin is based.

Our goal is to maximize privacy and anonymity in transactions and data transfers. Zk-SNARK is a zero-knowledge proof protocol used in encryption, and it is an acronym that stands for "Zero-Knowledge Succinct Non-Interactive Argument of Knowledge". This proof protocol was described in 1985 in the article „The Knowledge Complexity of Interactive Proof-Systems", written by Shafi Goldwasser, Silvio Micali, and Charles Rackoff. And is now employed by the cryptocurrency Zcash to solve a perceived anonymity problem with Bitcoin-type blockchains. It uses a form of zero-knowledge evidence called Zk-SNARK, which stands for "Zero-Knowledge Succinct Non-Interactive Argument of Knowledge."

In basic zero-knowledge evidence, both parties must interact over several rounds for the verifier to be confident of the honesty of the commander. In zk-SNARK, this interactive dimension is removed and the evidence becomes more complex. Zk-SNARK allows evidence to be both more efficient and use fewer data. This is an essential feature in blockchain networks where memory and space are extremely valuable characteristics. Put simply, a zero-knowledge proof is a situation in which each of two parties in a transaction can verify to each other that they have a particular set of information, while at the same time not revealing what that information is. In other situations, one of two parties must have access to all of the information. We can compare it to this situation when You want to use a password to access somewhere. The user submits the password, and second parties check the content on the password to verify its correctness. In this situation, second parties have to access the contents of the password. With the Zk-SNARK One of the parties must prove that they have the correct password without sharing it. The other party must prove that it can verify the password without actually receiving the password. Everything is done with the help of mathematical proofs. The privacy and security advantages in this situation are clear: if the network does not have the password stored somewhere for verification purposes, the password cannot be stolen. On centralized platforms, user data is used to manipulate our behavior through advertising. In fully open blockchain networks, all our activities are logged and public. What the zeroknowledge evidence offers is a public and transparent network that protects people from all sorts of spies and voyeurs.

2.2 New Wallet

As soon as Gemlink is launched, we begin work on a completely new wallet app. It is supposed to allow for the encryption of the data held and to be secured against unauthorized access and at the same time enable the trouble-free transfer of funds between PC and e.g. mobile devices. We plan to prepare the first version for computers. This is because the wallet must ultimately support masternodes as well. We want the application to have a friendly GUI and be as intuitive as possible.

a) The first step will be to prepare an application that supports as many coins as possible. A “light version” of walet will to improve and speed up the work of the current portfolio. At the same time allowing the handling of multiple coins and tokens. Immediately after the PC version, we would like to create an additional version for mobile devices.

b) The second step will be to facilitate the creation of masternodes as much as possible. We want to be able to run them with one button, selecting a specific provider of such services. Of course, we will also be one of them.

c) The next step will add the complete MultiTokenGateway service to the wallet (see text below).

d) After that, the DEX exchange will be added to the wallet.

e) The last planned step at this time will be the implement service to buy and sell cryptocurrencies directly using KYC and issuing cards by an intermediary operator for Mastercard cards. This will allow you to manage the entire portfolio of your cryptocurrencies in one application.This will be additional application independent from wallet.

2.3. Masternodes - transaction authorization nodes

Masternodes were added to SnowGem by Txid in May 2018. The role of Masternodes is to authorized and to store a copy of the blockchain as well as to maximalize data dispertion and verification of transactions. It is obvious that the more authorizing nodes, the better the security of the network is. Maintenance cost of masternodes is on user side but Gemlink pay back for maintenance using Gemlink coin.

Masternodes support the network by contacting other nodes of Gemlink network by news propagation of the current state of the network and blockchain. The created masternodes will ultimately be integrated into one system to make the masternodes generation as easy as possible.

You must have 20,000 Gemlinks coins locked to run the masternode. This amount cannot be spent and is seen in the wallet as a blocked amount. As a reward, the percentage of the reward will be paid out of the value of half of the newly created block. The goal is to obtain as many masternodes as possible scattered around the world. The number of rewards per day is fixed and depends on the maximum number of blocks to be mined. The percentage of the rewards for masternodes will vary depending on the number of them.

Annual return on investment for each masternode.

	Block number	MN 100 pcs	MN 250 pcs	MN 500 pcs	MN 1000 pcs	MN 1500 pcs
Projected annual return	Less than 2102400 blocks after fork	388,00%	155,00%	77,00%	38,00%	25,00%
Projected annual return	2102400 blocks after fork(about 4 years)	194,00%	77,00%	38,00%	20,00%	12,00%
Projected annual return	4204800 blocks after fork(about 8 years)	97,00%	38,00%	19,00%	9,00%	6,00%
Total allocated coins	Total allocated coins	2 mil	5 mil	10 mil	20 mil	30 mil

2.4. Voting capabilities through Masternodes nodes.

Voting system operates through masternodes and our goal is to make the system work more actively. The community focused around Gemlink should have a possibility to share their vision of Gemlink development. The voting system will provide possibility for the users to take part in matter-of fact discussion on a given problem. This service Gemlink inherit from Snowgem Coin.

2.5. MultiTokenGateway

a) The next stage of Gemlink development is implementation of a gateway to change Gemlink coins to other tokens and vice versa.

b) The Gemlink coins will be changed in a 1:1 ratio to the corresponding number of tokens.

c) The exchange of Gemlink coins for tokens will be carried out by transferring a certain number of Gemlink coins to the vault. In return, new tokens from other vault will appear at new wallet address. In the opposite direction, it works in the same way. Initially, new tokens will only be available for conversion from Gemlink coins.

d) The number of tokens will never be greater than the maximum possible amount of Gemlink coins. It means that the total amount of coins plus tokens that will be possibly available for users will account no more than 160 million.

e) For our project, we will create tokens on other blockchains in the future. This will allow our coin to enter new markets.

f) One of the additional options in the future for the gateway will be the possibility of exchanging between stable coins, making it easier to switch between their types.

g) We obtain the effect of auto-regulating market prices of all our tokens and coins, thanks to the possibility of quick exchange of Gemlink coins into tokens and vice-versa.

2.6. DEX - decentralized cryptocurrency exchange

Following are our most time-consuming characteristics of the project:

a) Speed and simplicity:

• Cryptocurrency exchange via DEX is a very convenient form of making transactions. The user can transfer cryptocurrency to the address provided, and DEX will allow to change tokens on liquid markets. All necessary commercial operations on DEX will be very friendly for users.

b) Security:

• Currently, centralized exchanges are much more dangerous and fallback than DEX. Since end users coins are not kept on CEX and but in a wallet with the private keys, coins and tokens are hack-proof. And even if CEX is unavailable due to maintenance, users can continuously trade on DEX.

c) Independence:

• DEX ecosystem protects users from interference by local and international authorities in user funds, their identity and platform activities.

d) Lower commission:

• The DEX commission system will be closely tied to the amount of Gemlink masternodes you own. A system of discounts for traders will be created in order to promote the highest possible number of masternodes held.

e) DEX will work complementary with already operating MultiTokenGateway allowing ease functioning in cryptocurrencies world.

2.7. CryptoCurrency Gate - FIAT

A separate element, such as gate, will give the possibility to exchange Gemlink for FIAT currency but users will need KYC. It require a separate system independent of the DEX to protect anonymity of users. But ultimately connected to the card operator Mastercard. Thanks to this, we will close the entire area of storing, trading, exchanging, withdrawing cryptocurrencies and fiat currencies with one buckle.

2.8. Our new tokens

With the development of Gemlink we will create new token on Binance Smart Chain and add it on pancake uniswap. Next, another token will be created on Solana Chain to be used with our new webgame, NFT Market Place and DEX.

3. Tokenomics

3.1. Algorithm: equihash(144-5,pers: sngemPoW)

3.2. Block time: 60 seconds

3.3. Block Reward: 30 Gemlink

3.4. Halvings: every 2102400 blocks after fork (about 4 years)

3.5. Coins mined as TENT coins: about 42 000 000 Gemlink

3.6. Premine blocks: 10,000,000 Gemlink

a) Division of the premine blocks:

• Development fund 4,000,000 Gemlink

• This fund will be used for the development of private and anonymous websites successively with the development of the coin. In the early stages of the project, all founders' money will be used to fund project activities such as paying for awards or fees for listing Gemlink on exchanges and news sites.

b) Equity fund 6,000,000 Gemlink.

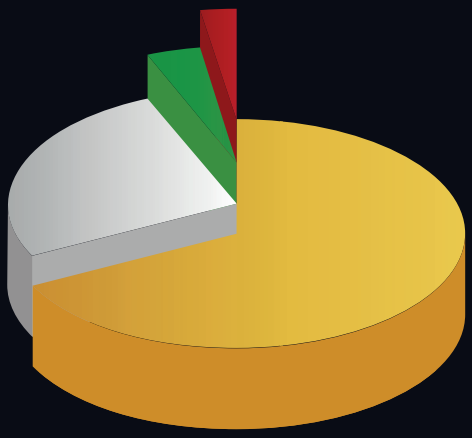
3.7.Division of the block mined:

a) The blocks consist of 30 coins and are mined every minute

• 50% of the block is transferred to masternode holders,
• 30% of the block is transferred to miners extracting blocks,
• 20% is transferred to the development fund, used only for the further development of the ecosystem,

3.8. Future new tokens will be created in the amount of 160,000,000 and will be secured with an appropriate amount of Gemlinks. The generated tokens will go to the vault and will await a signal from users about their willingness to exchange Gemlink for a given token through the gate. At the time of exchange, the Gemlink token will go to the vault and the selected token will be issued to the user. All exchanges will be 1: 1 in both directions. Once created, tokens will have the option of further printing turned off.

3.9. Diagram of the financial structure:



Total supply of Gemlink: 160 000 000 coins.

- Gemlink coins left to mine 108 mil
- Old Tent coin forked on Gemlink 42 mil
- Gemlink Owners founds 6 mil
- Active Gemlink Dev Founds 4 mil

3.10. Coins mined by Tent(Snowgem) miners and mining Gemlink coins

All who have old TENT coin, will have the same amount of new Gemlink coin. After fork it will be on new blockchain. You should use your private key to start use it on new wallet. Gemlink coins can be mined as previous Tent coins and Snowgem coins.

4. Summary

We want to focus on creating applications, services and that utility wich will connect the cryptocurrency world with the usual world. We believe in the posibility of obtaining the greatest possible adaptation and inovation of services based on the blockchain network with the life of an ordinary citizen.