



MKTCASH

Decentralized and safe technology anywhere.

White Paper
version 1.2

www.mktcash.org



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Introduction

In 2009, the era of cryptocurrencies began with the publication of the source code of the first cryptocurrency with a unique decentralized system, Bitcoin. Created by the entity Satoshi Nakamoto, bitcoin is a currency that has had a strong and important growth, but it still has obstacles to be a mass adoption currency or an alternative to fiat money.

Mktcash is a digital money system with the objective of empowering users with a decentralized and secure structure for everyday commerce and use, with almost instantaneous transactions at a low commission cost and with POS and Masternode consensus algorithm. It is a currency with a peer to peer architecture, to be used in multiple trading platforms without the need for an intermediary, no account validation or central authority.

What is Mktcash

Mktcash is global digital money, a currency oriented on decentralization and speed of transactions.

The main objective of the currency is to offer users an electronic cryptographic asset capable of being used as a means of online payment, as an investment or business, without going through a financial institution or central authority, the control of transactions is verified through the blockchain, which provides anonymous information of the inputs and outputs of each transfer between wallets, it works as a ledger decentralized and verifiable public ledger.

The project is open source, with a total supply of 500.000.000 MCH, of which 23 million MCH were premixed in the genesis block.

The percentage of pre-mined coins for the project represents 4.6% of the maximum coin supply. A percentage of additional coins were delivered to the MCH community, as a no-cost exchange, but with a series of specific requirements.

We have the MCH coin pre-mine to provide initial support for the infrastructure, without the possibility of manipulating the MCH ecosystem, and which will be used to temporarily finance part of the mktcash base software updates since, in the blockchain distribution per block does not contemplate a percentage of the reward destined for development.

Technical specifications

Currency: Mktcash

Ticker: MCH

Protocol: Pos + Masternodos

Algorithm: Quark

Rewards per block: 372 MCH

Rewards per POS: 40% POS

Rewards per Masternode: 60% MN

Block Time: 4 minutes

Pre-mine: 4,6 % 23 Millions MCH

Maximum supply: 500.000.000 MCH

MN Collateral: 150.000 MCH

Minimum per Stake: 100.000 MCH

Block Size: 8 Mb

Usable Currency: After 6 confirmations



Halving: 5 Halvings

Decimals: 8

Subdivision: MCHTOSHIS

Transaction fees: 0.0001 MCH

Minable: Yes

Instant send: Yes (Swift TX)

Port: 17223

Tecnology

Mktcash is a fork of the Pivx source code, this has improved features from the Dash source code, but both keeping similar base structure of the Bitcoin source code. Mktcash works in the same way, with the public and private key, by using using digital signatures, coins are exchanged between users by digitally signing a hash of the previous transaction, where coins were obtained and the next owner's public key of the next owner and adding this data at the end of the transaction.

The beneficiary can verify the digital signatures on the blockchain once the transaction has been made.

A new public address is generated for each transaction to add more anonymity for the owner of the coins because the public address leaves a trace of past transactions.

The digital signature prevents the transaction from being modified once it has been issued and is used to verify the authenticity and integrity of the digital data.

Economy

The total supply of coins is limited and the daily supply decreasing in the long term. Because of halvings, an important feature of the coin is the 4-minute block time so as not to inject too many new coins into the MCH economy and have the problem of uncontrolled oversupply, another parameter is the collateral needed to participate in Master-nodes and Pos, 0.03% in relation to total supply for masternode and 0.02% for stake. As this is a low percentage of total supply, it is a way to promote users participation a more global.

The more masternodes participate in the network, the more coins will be kept saved, and the more scarcity of coins will occur, thus contributing positively to the mktcash ecosystem. In the long run when the total supply comes into circulation the rewards per block will be from transaction fees and the network will continue to give incentives to active participants.

Halving

It is an automatic process, scaled, pre-established in the source code, in which the rewards are reduced to half every 25.000 blocks approximately, with a time of 4 minutes for each block, only 5 halvings will be produced.

After the last halving the reward will be of 10 MCH per block until the end of new coin issuance with the objective of obtaining a deflationary model, since the quantity of coins is finite and there is no authority to regulate the monetary base.

Distribution of rewards per block

PHASE	HEIGHT OF BLOCK	REWARD	INCREASE	TOTAL
1	0-250000	372 MCH	18,6%	500 M
2	250000-275000	180 MCH	0,90%	500 M
3	275000-300000	80 MCH	0,40%	500 M
4	300000-325000	40 MCH	0,20%	500 M
5	325000-350000	20 MCH	0,10%	500 M
6	350000-400000	10 MCH	0,20%	500 M
-	400000-500000	10 MCH	0,20%	500 M
-	500000-600000	10 MCH	0,20%	500 M
-	600000-700000	10 MCH	0,20%	500 M
-	700000-800000	10 MCH	0,20%	500 M
-	800000-900000	10 MCH	0,20%	500 M
-	900000-ONWARD	10 MCH	N/A	500 M

Price

The value of mktcash is determined by the law of supply and demand. How many more users request the coin in the market, the supply decreases so the value increases, otherwise the value decreases. As long as demand continues to increase and there exists an established maximum of coins, merchants and traders will maintain a constant volume of trade and users will use the currency to make purchases, pay for services and other goods, the price will be volatile and will find price stability. In the case of fiat money, the constant issuance of paper money and the economic and economic policies of the countries cause crises, and loss of value of currencies in the market.

The price of currency can also be calculated in free agreement between users.

Usability

Our priority is to develop technological solutions and applications that facilitate easy and simple user adoption, mktcash is functional as a means of payment and the initial development of a Web, Android and IOS wallet, facilitates portability and flexibility in the use of the Wallets, as they act as thin clients without the need to download the full blockchain, reduces the difficulty of configuration and consumption of disk space, also offer a high level of security. The storage of the keys is on the same device that executes them, for mobile wallets the private keys or recovery phrase can be imported or exported, giving the user control over their funds control over their funds, and for the web wallet, which runs on a web platform, extra layers of security can be added to operate from anywhere.

Proof of Stake

The consensus protocol adopted by mktcash is Proof of Stake and masternodes, Proof of stake is more efficient than proof of work, as it does not demand a high economic cost to the network, and in the long run it is more scalable because participation is not determined on users investing more money in CPU power to validate blocks.

The pos node is dedicated to validate blocks or transactions and the masternodes add integral services to the two-level network that mktcash has. The probability of validating a block or set of transactions is random and based on a series of criteria. It is important to encourage users because the more users participating in the network, the more secure it will be. The nodes that make Pos are called validators, and users must keep their coins locked in a wallet to vote the next block. Once the blocks are validated, they are added to the chain and are permanent. The network will incentivize with new coins as a reward to the user who validates a block or transactions.

The probability of validating blocks or transactions and receiving the corresponding reward is directly proportional to the amount of coins the participant has accumulated

A necessary element for the security of the network is to penalize participants who do not wish to respect the protocol, the process consists of eliminating a portion of the coins blocked by the validator in case he tries to break the consensus, or does not execute the software correctly during the validation process.

The reward for the stake is 40% per block, 148,8 MCH currently.

PoS stake eligibility minimum entry age: 60 minutes.

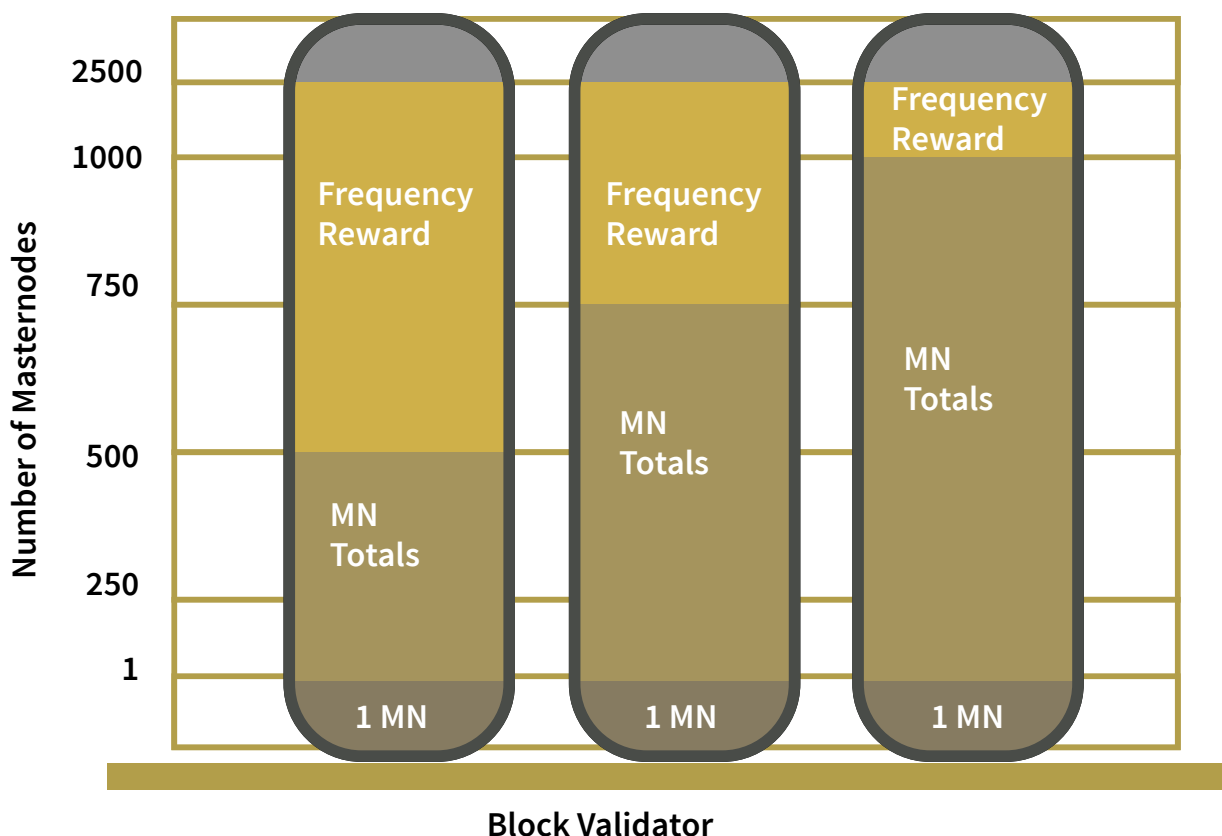
Maturity confirmations: 60 confirmations.

Masternode Reward

The highest percentage of new coins to the mktcash economy are destined for masternodes, with 60% of new MCH per block are granted for the multiple functions they offer, masternodes are servers that store a full copy of the blockchain must be connected 24/7 to the network and operate with a fixed amount of coins. The function of a masternode is to improve the privacy of transactions, reduce transaction transactions, reduce the volatility of the currency, allow transactions to be made instantaneously between users, in addition to instantaneous transactions between users, as well as keeping the network secure and stable. The daily number of coins granted to each masternode will be calculated according to the following formula:

$$\frac{(\text{Total masternode rewards per block}) \times (\text{number of blocks extracted in 24 hours})}{(\text{number of masternodes executed})}$$

Rewards Frequency Graph:



The guarantee required to create a masternode is 150.000 MCH, in which it is sent to an address of the wallet, where it is activated and the masternode will propagate in the network. In the process a secondary private key is created to sign all subsequent messages. The latter key allows the wallet to be locked when running in standalone mode. At any time the participant can deactivate the node and release the coins, without penalty, but will stop receiving rewards until he re-creates the masternode again. The masternode reward is 223,2 MCH at the moment.

Privacy

Mktdash allows to make transactions with a minimal commission, between peers with unique public keys, recorded in a decentralized public ledger unalterable over time, without intermediaries in the process, the information of a transaction is visible to the public, but without revealing data that can be associated to a user.

The addresses are created in pairs, each public key is associated with a private key. These are generated by elliptic curve cryptography, and it is the one that allows sending coins to another wallet.

In the centralized banking model, this privacy is limited to the restriction of the information of the parties and of a third party, basically The money that is traded has a regulation that slows down and adds costs to the operations.

Mktdash uses the quark algorithm to protect authenticate and maintain data confidentiality. confidentiality of the data, the algorithm uses 18 hashing functions to a single address that, together, the the possibility of several functions being broken at the same time is almost 0%, making it one of the most secure algorithms.

Governance X Coin equals 1 vote

One of the next objectives is to implement decentralized governance, because it is necessary to integrate participants in decision making, as well as in the advancement and improvement of the mktcash protocol with a common interest. To have a transparent and participatory growth, that the information is visible to all equally. The characteristics of MCH governance are:

Participatory

Any user can obtain voting rights, add funds to the treasury, and propose proposals. The implemented model is autonomous, requiring the participation of several users to accumulate the necessary number of votes to approve and execute the actions. Proposals must be approved by majority vote or until the required budget is reached. More coins can be sent in the vote according to the importance that the user deems appropriate and this will be user deems convenient and this will be added to the proposal. The minimum amount to have 1 vote is 3.000 MCH.

Organized

Mktcash governance is not based on a traditional administrative structure, the organization is based on user consensus, with compliance with the required criteria of the system, and verification of transactions through the use of the blockchain. The mktcash team is made up of collaborators from different parts of the world with the same common goal, it can also be extended with groups of volunteers distributed over the internet, as the team will adjust as the community grows.

Decentralized

Each participant has the same rights and they are distributed horizontally, without hierarchies. The system is designed to have a preset self-monitoring, and is not controlled by a group of people or a central authority, as it relies on the mch blockchain itself to control transactions. Users can make proposals for upgrades, commercial or social in nature, including improving the mch protocol, to drive innovation. Users must comply with the requirement of owning 180.000 MCH as collateral, as the main rule so that they can participate in the proposals.

Open source code

The implemented system will run autonomously on the network with a secure code designed to automate tasks, with the implementation of the designed to automate tasks, with the implementation of the set of rules for the correct rules for the correct operation of the platform, uses the blockchain to have a solid foundation, where users will be able to have control of their transactions.

Legal Notice

This document has been created solely for informational purposes and does not constitute or is intended to be an offer to sell, transfer, issue or allot capital, goods or services. This document shall not be construed as an invitation, advertisement, solicitation, recommendation or inducement to invest in any financial instrument. The purpose is to introduce the Mktcash project to persons interested in holding mch coins. The information provided in this document should not be construed as the basis for an investment decision or strategy, it is intended only to provide general and preliminary information to those interested in making an investment decision. information to those interested in contributing to the project.

References:

[1] <https://bitcoin.org/bitcoin.pdf>

[2] <https://cardaniers.com/proof-of-stake/>

[3] Dominando-Bitcoin, Autor: Andreas Antonopoulos

[4] <https://academy.bit2me.com/transacciones-bitcoin/>

[5] <https://medium.com/@riddo/introducci%C3%B3n-a-los-masternodes-80ea249275e8>



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