

WHITE PAPER



ZAAPCOIN
The Blockchain for our daily live.

Version 1.0.0

Abstract

Zaapcoin (ticker: ZAAP) is an autonomous digital currency, forked off of the Dash platform and oriented towards the community. This cryptocurrency has a system of self-financing through decentralized governance. One of the main focuses is to serve as source between the digital communities and marginalized environments of the countries in development. Supported by a strong digital community and promoting financial developments, economic and digital innovation, Zaapcoin aims to be a thrust of change in the communities. This coin does not have nor will have an ICO or a “Crowdfunding”. The team of developers is maintained using the premine generated (0.9%) and keeping the 0.9% of Masternodes of the currency, ensuring that 99% will be in the hands of the community. In the future, the mode of financing the projects that will be held on this platform will be consulted with the community.

Zaapcoin is a cryptocurrency for the community. People thrive when they can connect and trade freely. Zaapcoin uses decentralized advanced blocks chain technology to solve important problems for our global community.

This project would not be possible without the previous work of the Bitcoin and Dash team. We appreciate the efforts of those who made these works, we are excited about the idea of belonging to this open source community and appreciate the opportunity to contribute to these projects.

In addition, we thank the members of the Zaapcoin community who have promoted this project and participated actively in the communication channels for the good of Zaapcoin.

1. Introduction

1.1 Bitcoin

Bitcoin is a digital currency that emerged in 2009 by Satoshi Nakamoto , publisher the base document for the creation of Bitcoins, which is a payment system without the need for a third party to confirm and validate the transfer through a system called "The Blockchain" and was hard pressed to gain public acceptance. Over time Bitcoin has been more openly accepted and implemented into an increasing number of applications. This has mainly been a result of its practical use and value as a medium of exchange. Bitcoin has provided us a baseline demonstration with great practicality and security, as well as paving the road for blockchain technology that BlockChain technology has the potential to change how we do things in our daily lives and now it is only just the beginning.

1.2 Dash

Dash was founded on January 28, 2014, under its original name Xcoin. XCoin, which was rebranded as Darkcoin 10 days later, eventually took the final name Dash in March 2015. Dash achieved many of its goals and quickly grew into a highly valued digital asset[4]. One of Dash's main features is an incentivized masternode network that requires locking 1000 Dash. The Dash masternode network was easier to join in its early stages.

1.3 Zaaecoin

Zaaecoin was founded by a team of experienced engineers who are passionate about BlockChain technology consisting of a communication engineer, software engineer and electronics engineer. We strongly believe that BlockChain technology has the potential to change how we do things in our daily lives and now it is only just the beginning. We are determined to make Zaaecoin a digital cryptocurrency for everyday use. Because of its transparency, security and speed, it will be widely used not only for buying and selling goods and services but also for example voting, traveling, data storage and much more.

Additionally, we aim to offer smart contract functionality allowing developers to create decentralized applications and agreements.

We also want to build a strong and active community and so we will try to pay attention to all feedback and requests from the community!

2. Brief of BlockChain technology

2.1 Blockchain

The blockchain is a set of blocks created by the interconnected and confirmed nodes. Each of these blocks contains the necessary information to fit the chain through the consensus of the "workers".

2.2 The reward system

In all the different distributions of the Blockchain there are three types of reward for jobs: Proof-of-Work, Proof-of-Stake, Masternodes. These jobs contribute to the creation and confirmation of the Blockchain and each new block distributes the reward among those who perform the job.

In the configuration of the Zaapcoin Blockchain, the reward is aimed both the Proof-of-Work (PoW first year), Proof-of-Stake (pure PoS After 1 Year) and Masternodes (MNs).

The development team of Zaapcoin is carrying out technical and economic research to create a system to limit the generation of Masternodes in which during the first year of release, it will block the number of nodes that can be generated.

This will bring the following benefits:

- To return static investment for investors.
- To avoid that large amounts of Zaapcoin are blocked, for free circulation.
- Zaapcoin initial price increase.
- Ease in creating consensus among the owners of a master node.
- Limit the capability to vote for a select group.

2.3 Decentralized governance system

A Blockchain with a decentralized and self-financing governance system seeks to empower the community to decide its own future. This system allows anyone to make a proposal to the community and submit it to a vote by the master nodes to direct the future of the currency and projects.

3. Blockchain for a better world

Since 2009 Blockchain has revolutionized the manner. Some people believe that it is truly a revolution and that it will bring real benefits to mankind and in particular to people.

Aside from regulation, personal enrichment and the new traits of new technologies, to lead Blockchain (specifically Zaapecoin) to real world and use it in our daily lives, it is necessary to change mentality and to raise awareness in people.

To achieve this purpose, Zaapecoin has the intention to take the following procedure:

1. The creation of a digital community, sensitive to the world's needs and capable to perceive all the different aspects of the global community.
2. To integrate Zaapecoin to the world, through changing digital currency to fiat currency.
3. To create a circulation system for Zaapecoin through Zaapecoin Market.
4. To start a Foundation that develops projects which can be self-sustainable, profitable and with great impact.
5. To develop vZaapecoinChain , named of smart contract for Zaapecoin blockchain”
6. To create a Zaapecoin Exchange (ZAAPEX) for support vZaapecoin token ,the token created by vZaapecoinChain technology.
7. To develop Blockchain core platform (ZIoT) for IoT devices , people can build their own token by vZaapecoinChain and run it on ZIoT
8. To develop ZIoT API and SDK for people who want to customize applications on their projects

4. Introducing Zaaecoin

4.1 The Development Team

In early 2018, a team of experienced engineers who are passionate about BlockChain technology consisting of a communication engineer, software engineer and electronics engineer strongly believe that BlockChain technology has the potential to change how we do things in our daily lives. Thus, they looked for the suitable alternatives. In January 2018, Zaaecoin is created.

Zaaecoin has a change in its vision. In addition to working as a bridge between digital currencies and local services and goods that people need, the idea emerged to work as a platform to enhance self-financed and profitable projects that improve the lives of people in developing countries.

4.2 The Community Team

The community of Zaaecoin with an continuous growth in the number of community members. Because of the new objective of Zaaecoin that wants to achieve a substantial change in the lives of the most in need in the world, a collaborative work environment has been possible, where each member has contributed to the same community, with their time, their will, in a generous way to contribute to the common good.

4.3 Quick start distribution

To create the Zaaecoin projects, a quick start distribution is necessary in PoW phase. For that reason, the reward of the block in 20 ZAAP was established. To maintain this quick distribution in first year. After block 262801 (approx. 365 days) the reward will be reduced to 10 ZAAP to continue the production in 9 years. After block 2628001 (approx. 3650 days) the reward will be reduced to 2.5 ZAAP to continue the production in 10 years. Once the distribution period is over, the reward will be obtained from the payment of the transaction.

4.4 Block Reward Decrease Table

Year	Block Reward	POW/POS	Block
1	20	POW	1 to 262800
2 to 10	10	POS	262801 to 262800
10 to 20	2.5	POS	2628001 and so on

4.5 Masternode reward

Block Rewards Masternodes are identical to full nodes on the Bitcoin network. However, Bitcoin nodes lack the incentive to operate. With costs far outweighing any benefits, over time the number of nodes has decreased substantially on the Bitcoin network. This has led to the masternode reward system being implemented across many new digital assets. The consensus algorithm offers node operators a pre-determined share of newly generated ZAAP as well as a share of the transaction fees on the network. Like many other blockchains, Zaapcoin's block reward decreases over time to combat inflation. When the maximum supply has been generated, miners and masternodes will no longer generate new coins, instead, they will be rewarded from the transaction fees on the network.

Only one masternode is paid in each block creation. Masternodes are paid in a round-robin fashion, scaling to any number of masternodes This method of scaling leads to fluctuations in masternode rewards and can be calculated using

$$\text{MN reward} = (R * B * A) / T$$

Where:

T is Total number of masternodes

R is Current block reward subsidy B is Daily create block average

A is Percent of masternode payment

5. Zaaecoin Blockchain Parameters

Specification	Descriptor
Ticker	ZAAP
Algorithm	X11
RPC Port	25194
P2P Port	25193
Difficulty Algorithm	Drak Gravity Wave 3.0
Block Size	2 MB
Block Time	120 seconds
Masternode Confirmation	15
Masternode Collateral	2500 ZAAP
Governance Fee	5 ZAAP
Governance Minimum Quorum	10

6. Wallet Platforms

At the core of Zaapcoin is a family versatile and user friendly wallet GUI (graphical user interface) programs. It attempts to forge a balance between implementing the complex features of Zaapcoin while maintaining usability and comfort. It is essential, from a decentralization standpoint, to extend the reach of Zaapcoin to as many platforms as possible.

6.1 Desktop Wallets

To be applicable for a wide range of use cases, Zaapcoin has developed desktop wallets for Windows, Mac OSX, and Linux/Unix environments. Core features such as cloaking, instant transactions, and masternode management are available across all desktop platforms. The main philosophy behind the design of the Zaapcoin desktop wallets is simplicity and usability.

6.2 Mobile Wallets

As the digital world rapidly advances, many actions on the internet are carried out by mobile phones. To preserve relevance and increase usability, Zaapcoin is developing wallets for all the major mobile platforms, such as iOS and Android. Mobile wallets bridge a key gap between consumers and merchants. With mobile wallets, Zaapcoin suddenly becomes useful in situations where use of a desktop computer is not available or desired. This is a key stepping stone in the proliferation of ZAAP.

7. The Internet of Things (IoT)

7.1 what is IoT

The Internet of Things (IoT) is a system of interrelated computing devices, mechanical and digital machines, objects, animals or people that are provided with unique identifiers and the ability to transfer data over a network without requiring human-to-human or human-to-computer interaction.

A thing, in the Internet of Things, can be a person with a heart monitor implant, a farm animal with a biochip transponder, an automobile that has built-in sensors to alert the driver when tire pressure is low -- or any other natural or

man-made object that can be assigned an IP address and provided with the ability to transfer data over a network.

IoT has evolved from the convergence of wireless technologies, micro-electromechanical systems (MEMS), microservices and the internet. The convergence has helped tear down the silo walls between operational technology (OT) and information technology (IT), allowing unstructured machine-generated data to be analyzed for insights that will drive improvements.

Practical applications of IoT technology can be found in many industries today, including precision agriculture, building management, healthcare, energy and transportation. Connectivity options for electronics engineers and application developers working on products and systems for the Internet of Things include.

When the blockchain technology is the new key innovation of IoT infrastructure , Zaapecoin made it easy for people who want to use on their own propose.

7.2 what is ZIoT

The Zaapecoin Internet of Things (ZIoT) is blockchain platform core of IoT devices which develop to decentralized IoT equipment on it own network (vZaapecoin smart contract)

7.3 vZaapecoin

vZaapecoin enables IoT devices to send data to a private blockchain shared by seperated business network. The secure blockchain enables peers to record transactions in a decentralized data log maintained on a network of computers. With the IoT registry, they can access real-time device data to monitor the status and progress of products or components in the supply chain. The data provided by the blockchain can ensure faster resolution of breached contracts, stronger partner relationships, and greater transparency and efficiency.

References

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