

Doichain - The blockchain for sustainable and tamper-proof proof of existence, consent, privacy, communication and value exchange

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Introduction

Doichain is a future-oriented blockchain technology developed from a fork of Namecoin. As a technical relative of the Bitcoin network to over 90%, it combines innovative functions for the documentation of forgery-proof consents, non fungible tokens (NFT), value equalisation, n-layer concept with environmentally conscious operation and security through merged mining with the Bitcoin blockchain.

Technical properties

Network and mining

- Genetic relationship with Bitcoin: Doichain is predominantly based on the Bitcoin protocol. As a result, Doichain not only benefits from the high Bitcoin security standard, but all Bitcoin applications can be effortlessly transferred to the Doichain network.
- Merged Mining with Bitcoin: Enables more efficient use of resources and contributes to an almost CO2-neutral operation by recycling the "mathematical waste" of the Bitcoin network.
- High hashing performance and security: Doichain achieves a high hashing performance and therefore a high security standard thanks to merged mining.

SHA-256 algorithm

- SHA-256: A cryptographic hash algorithm that converts an input text of any length into a fixed 256-bit hash and is central to network security.

Network development

- Nodes (nodes): Consisting of independent nodes that secure and decentralise the network.
- Decentralised applications (dApps): Doichain supports the integration of dApps that benefit from the transparency and security of the blockchain.

Blockchain specifications

- Block time: 10 minutes on average, analogue to Bitcoin.
- Halving and difficulty recalibration: As with Bitcoin, with regular halvings and adjustments to the mining difficulty.
- Namespace functionality: 512 bytes per block for user-defined data.

Doichain Coin (DOI)

- Limited quantity: Like Bitcoin, the quantity of DOI is limited to 21 million.
- Distribution mechanism: Similar to Bitcoin, with block rewards and halvings.
- Intended use: The DOI serves as the native currency in the Doichain network and supports transactions and network security.

Areas of application

- Documentation of consents: Core functionality of the Doichain.
- Versatile documentation: For various purposes beyond the core area of e-mail consents.
- Tamper-proof proof of sustainably "generated" energy.
- Carbon Minus NFTs to prove CO2 removal from the atmosphere or avoidance of CO2 emissions with a linked, certified trading structure.
- The privacy-guaranteeing communication platform.
- Support decentralised data storage and local first, "you own your data" concepts.

Environmental awareness and sustainability

- CO2 neutrality through merged mining: By utilising the "mathematical waste" of the Bitcoin network, the Doichain is almost CO2 neutral.
- Efficient use of resources: Increased efficiency through the shared use of the Bitcoin mining infrastructure.

Future prospects and development

- Scaling: Continuous improvements for higher efficiency and throughput. e.g. by using the second layer developed as part of the government-funded Doichain project "BlockPro", which has proven to be world-class with more than 1 million transactions per second.
- Extension of the functions: To support a wider range of applications.
 - Promoting the community: Building a strong user and developer community.

Basics:

- Genesis block 11 May 2020, 06:47:10 (UTC+2:00)
- Inventor Doichain team on the basics published in the Satoshi Nakamoto white paper "Bitcoin: A Peer-to-Peer Electronic Cash System" and the techniques supplemented by Namecoin
- Maximum number of coins 21 million
- Blockchain type Public, decentralised blockchain
- Mining algorithm SHA-256
- Block time 10 minutes on average
- Halving Halving of the block reward every 210,000 blocks (~4 years)
- Transaction fees Variable, depending on network utilisation and transaction size
- Difficulty adjustment Every 2,016 blocks (approximately every fortnight)
- Typical application Digital currency, store of value, bank transfers. PoE, privacy
- Proof of Work (PoW) consensus mechanism
- Scalability solutions Segregated Witness (SegWit), BlockPro second layer micro staking, Lightning Network

Conclusion

The Doichain combines the strengths of the Bitcoin network with environmentally friendly innovations and special functions for the documentation of consent and other data. By introducing the Doichain Coin (DOI), it offers a robust and versatile platform that is not only suitable for its core functions, but also for a variety of other applications. Its commitment to sustainability and environmental protection, coupled with high security and reliability, positions Doichain as a leading blockchain technology for the future.

Contact

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