

MuGambo

01 Introduction to MuGambo

MuGambo aspires to be the home of all gaming applications and aims to get employed on a broad scale in a variety of industries, including telecommunications, finance, logistics, and electric car provision, among others. The MuGambo Foundation plans to develop the MuGambo platform as well as a new Smart Contract-based ecosystem that will be available to all current and prospective MuGambo partner companies around the world.

The MuGambo Foundation will pioneer the next generation of distributed ledger technology to enable consistent worldwide transactions with high accuracy and reliability.

The platform will be open-source, allowing the community to utilize and modify it, as well as provide numerous application support tools for creating decentralized applications (DApps).

02 Uniqueness Brought by MuGambo to the Blockchain Gaming World

Mugambo aims to develop a new implementation of PoA (Proof-of-Authority) and IBFT (Istanbul Byzantine Fault Tolerant) consensus algorithms. They are designed in such a way to establish consensus in a

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designed in such a way to establish consensus in a distributed system, building the single source of truth that makes blockchain so beneficial.

MuGambo's technology is intended to create potentially infinite scalability, and process thousands of transactions per second even with large numbers of nodes participating in the network.

Each block in IBFT requires numerous rounds of voting by the validators to reach a consensus, which is recorded as a collection of signatures on the block content. Byzantine Fault Tolerance refers to a network's ability to continue operating normally even if certain nodes are dishonest and try to propose bogus blocks or blocks that benefit some parties at the expense of others. The PBFT implementation (where IBFT is a part of) can endure f number of defective nodes in a network of $3f+1$ nodes.

The collecting of signatures from the proposer and voting validators ensures that IBFT blocks are highly resistant to tampering. It will be impossible to change the block content without having access to all of the proposer and validator nodes' private signing keys. As a result, the immutability of the resulting blockchain is assured.

03 MuGambo Technical Components

- ✕ PoA/IBFT on Hyperledger Besu
- △ Elliptic Curve Encryption Technology

04 MuGambo Technical Benefits

IBFT is one of the many types of PoA and helps the system with the following benefits:

► Instant block finality.

At any particular chain height, just one block is offered. As a result, the single-chain eliminates forking, uncle blocks, and the chance of a transaction being “undone” later on the chain.

► Lesser block time

The effort required to build and validate blocks is dramatically decreased (especially when compared to PoW), resulting in a large increase in chain throughput.

► High fault tolerance and data integrity

To ensure the integrity of each block being offered, IBFT employs a group of validators. Block

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To ensure the integrity of each block being offered, IBFT employs a group of validators. Block fabrication is extremely difficult because a supermajority (66 percent) of these validators must sign the block before it can be inserted into the chain. The group's 'leadership' rotates over time, guaranteeing that a defective node cannot exert long-term control over the chain.

► Flexible Operation

The group of validators can be changed over time to ensure that only full-trusted nodes are included

— 05 MuGambo's Counter-Attacking System —

MuGambo's blockchain infrastructure resists the following cyberattacks:

- ✕ Sybil Attack
- ◻ Parasite Chain Attack
- △ Transaction Flooding

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06 MuGambo Coin Distribution

There are 240 billion coins of which only 240 million will be issued for circulation in phase 1. MuGambo ledger is poised to achieve 20 million transactions per day, which is 15 times more than any ledger in the history of blockchain ledgers. The phase wise release of MuGambo(MGB) coins is interlinked with the increase in the number of transactions on the blockchain ledger.

► MuGambo Coin Distribution in Percentage

