



## **WB Network**

To ensure compatibility with existing technology and to leverage the benefits of a popular community, WB Network has chosen to remain compatible with all existing smart contracts on Ethereum and Ethereum tooling. This has been achieved by developing based on a go-ethereum fork, as the team holds high respect for the excellent work of Ethereum. WB Network has initiated its development based on go-ethereum fork, which is why you may observe that many toolings, binaries, and documentation are based on Ethereum.

WB Network has introduced a new system with a Proof of Authority (PoA) consensus that can support short block times and lower fees. The only validator that produces blocks is WB Network. The double-sign detection and other slashing logic have been implemented to ensure security, stability, and chain finality.

### **PoA consensus**

Proof-of-Authority (PoA) consensus is an efficient consensus algorithm that was coined by Gavin Wood, a co-founder of the Ethereum blockchain in 2017. In a PoA consensus, all nodes are pre-authenticated, which allows using consensus types that provide a high transaction rate in addition to other benefits.

#### **Advantages of PoA consensus**

Compared to other consensus types that require proof of spent computational resources (Proof-of-Work) or an existing "share" (Proof-of-Stake), PoA consensus has several notable advantages:

- It does not require high-performance hardware like PoW consensus, which demands nodes to spend computational resources for solving complex mathematical tasks.
- The interval of time at which new blocks are generated is predictable. For PoW and PoS consensus, this time varies.
- Blocks are generated in a sequence at appointed time intervals by authorized network nodes, leading to a higher transaction rate.
- PoA consensus is tolerant to compromised and malicious nodes, as long as 51% of nodes are not compromised.

### How PoA consensus works in WB Network

In WB Network, only selected nodes known as validating nodes can generate new blocks. These nodes are responsible for maintaining the blockchain network and the distributed ledger. The blockchain registry maintains the list of validating nodes, and the order of nodes in this list determines the sequence in which nodes generate new blocks.

## Metamask

To add this network to your Metamask wallet use these parameters:

Network Name	WB Network
New RPC URL	<a href="https://rpc-testnet.whitebit.network">https://rpc-testnet.whitebit.network</a>
Chain ID	2625
Hexadecimal Chain ID	0xA41
Currency Symbol	WBT
Block explorer URL	<a href="https://explorer.whitebit.network/testnet">https://explorer.whitebit.network/testnet</a>