

Roadmap to the internet, decentralized.

2018



Aion Phase 1: Kilimanjaro

- **Virtual Machine (FastVM with EVM source compatibility)**

Aion FastVM is an enhanced Ethereum Virtual Machine (EVM), featuring 128-bit data word size for better performance. It uses LLVM JIT as execution engine and runs decentralized application at native speed. Due to the architecture change, the instruction set and the energy cost of each instruction has been modified. In addition, we've updated the solidity compiler so that it can generate code for Aion FastVM.
- **Functioning token bridge and interchain communication**

This bridge is designed to enable the decentralized movement of smart contract based tokens between blockchains. Creating multi-network tokens that maintain a consistent supply - unleashing tokens from solely existing within one blockchain.
- **Aion Proof of Work - Equihash 210_9**

The PoW Release utilizes a optimized equihash consensus algorithm we call Equihash2109. This is a modification to the equihash algorithm, which increases it's ASIC-resistance while achieving the required block times.
- **Aion Core - Multi-chain framework, Wire Protocol (P2P), Tx Pool, Event Manager**
- **Aion APIs - Java API, Web3 API compatability**



Aion Phase 2: Denali

- **Aion Virtual Machine (AVM) Version 1**

is a custom-built, lightweight, performant, and stable VM that leverages key characteristics of the Java Virtual Machine (JVM), providing concurrency and robustness within a blockchain-specific context. The AVM is responsible for running applications on top of Aion-1. The AVM will include its own scripting language.
- **Aion Scripting Language**
- **Proof-of-Intelligence consensus algorithm**

An economic measure to deter denial of service attacks by requiring participants, solvers in Aion-1, to perform artificial intelligence (AI) computation. The intent is to motivate the creation of AI-specific or specialized hardware that could be used for machine learning and neural network training in the future.

2019



Aion Phase 3: Everest

- **Participating Network Bridging**

The generic bridge protocol is designed to enable the atomic movement of value and data between heterogeneous networks. This will enable the development of cross-blockchain contract logic and free-floating token supplies.
- **Complete Validator Nomination**

The Hybrid DPoS / Pol consensus aims to achieve high performance while providing a fair and decentralized validator set. This is achieved through a token staking system and partly through a novel verification algorithm based on concepts used in modern neural networks called proof-of- intelligence.
- **Aion Virtual Machine 2**

This Virtual Machine will be an evolution of AVM with a focus on higher performance