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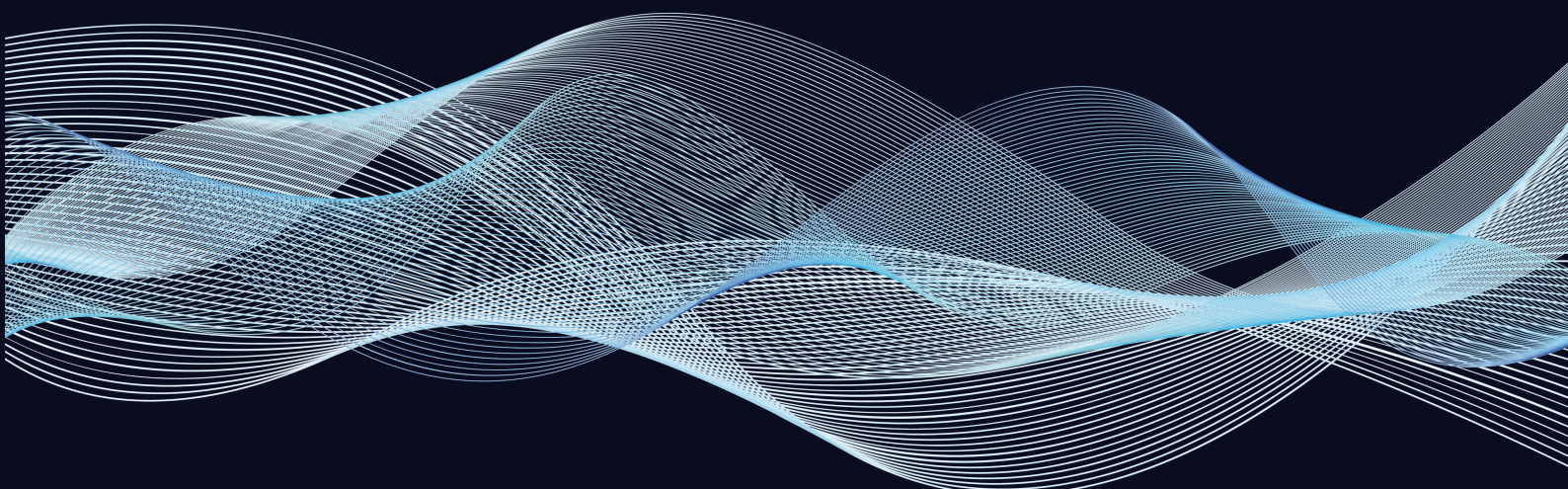
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# Socially Responsible Blockchain Innovation

Aegisum is an advanced blockchain platform designed to deliver a secure, scalable, and decentralized infrastructure for decentralized finance (DeFi) applications. Built on the Script Proof-of-Work (PoW) consensus algorithm, Aegisum combines security with innovative features like scam prevention, cost-effective transactions, and socially responsible practices. With a total supply of 100,000,000 AEGS, an initial block reward of 500 AEGS, and a 3-minute block interval, Aegisum ensures a controlled and equitable coin distribution. This whitepaper presents a comprehensive analysis of Aegisum's technical framework, tokenomics, and unique features.

# Introduction

The cryptocurrency landscape is evolving rapidly, with increasing demand for secure, scalable, and user-focused blockchain platforms. Aegisum addresses these needs by modeling Litecoin's proven technology while introducing novel features for DeFi and social impact. Its design is guided by three core principles: decentralization, scalability, and security. Aegisum's commitment to user education, scam prevention and initiatives like transaction-driven tree-planting sets it apart as a socially responsible blockchain.



# Technical Architecture

## Consensus Mechanism

Aegisum utilizes the Scrypt Proof-of-Work (PoW) consensus algorithm, a memory-intensive protocol that encourages decentralization by enabling a wide range of mining hardware such as ASICs, CPUs and GPUs to participate in the network. This minimizes the threat of mining centralization while concurrently strengthening network security. Miners compete in the solving of cryptographic puzzles to validate transactions and add new blocks, consequently earning a block reward in appreciation of their efforts.

## Blockchain Specifications

### PROPERTY

### DETAILS

<b>Source Branch</b>	0.21.3
<b>Algorithm</b>	Scrypt Proof-of-Work
<b>Coin Name</b>	Aegisum
<b>Coin Abbreviation</b>	AECS
<b>Public Address Letter</b>	A
<b>Testnet Address Letter</b>	1
<b>Coin Unit</b>	gisum
<b>RPC Port</b>	39940
<b>P2P Port</b>	39941
<b>Initial Block Reward</b>	500 coins
<b>Block Halving</b>	Every 100,000 blocks
<b>Maximum Supply</b>	100,000,000 coins

## Block Time

Aegisum targets an average block time of 3 minutes, calculated as:

$$T_b = 180 \text{ seconds}$$

This results in approximately 175,200 blocks per year ( $\frac{365 \times 24 \times 60}{3}$ ), providing faster transaction confirmations than Bitcoin's 10-minute block time while maintaining network stability. Compared to Litecoin's 2.5-minute block time, Aegisum's 3-minute block time offers a balanced approach for efficient transaction processing.

## Block Reward

The initial block reward is 500 AEGS per block, as specified. This reward incentivizes miners to secure the network while contributing to the coin's distribution. The block reward is subject to a halving mechanism, reducing by half at regular intervals, which controls the issuance rate and ensures the total supply converges to 100,000,000 AEGS.

## Network Performance

PROPERTY	DETAILS
Coinbase Maturity	20 (+1 default confirmation) blocks
Target Spacing	3 minutes
Target Timespan	3 blocks
Transaction Confirmations	3 blocks
Timestamp Message	"Aegisum protects from crypto rugs and supports real causes"

Aegisum's architecture supports high transaction throughput with low fees, making it ideal for DeFi applications. The Core v2.0 relaunch enhances network synchronization and response times, improving scalability and user experience.

# Tokenomics

## Total Supply

Aegisum has a fixed total supply of 100,000,000 AEGS, distributed entirely through mining with no pre-mine (V1.0) or initial coin offering (ICO). This fair launch approach ensures equitable access to coins and aligns with the principles of decentralization. By capping the total supply at 100,000,000 AEGS, Aegisum ensures that no additional coins can be created beyond this limit, mimicking the scarcity of assets like gold or Bitcoin. A fixed supply also reinforces Aegisum's image as a stable, non-inflationary asset, countering the volatility often associated with cryptocurrencies.

## Aegisum V2.0 Relaunch Special Block Rewards

### Important notice

In March 2025, Aegisum underwent a chain relaunch due to chain synchronization issues with the original blockchain (V1.0). A total of 2.6 million AEGS were remade and redistributed to all original coin holders based on their previous balances. These special blocks (1-3) were used to facilitate this fair redistribution, ensuring all holders received their coins back after the relaunch.

#### BLOCK HEIGHT

1

2

3

#### REWARD

1,000,000 AEGS

1,000,000 AEGS

600,000 AEGS

#### PURPOSE

Relaunch distribution

Relaunch distribution

Relaunch distribution

## Block Reward and Halving

The initial block reward of 500 AEGS is designed to halve at regular intervals, similar to Bitcoin and Litecoin. Assuming a halving interval of 100,000 blocks, the total supply can be calculated using the geometric series for a halving mechanism:

$$S = R_0 \times (1 + 2^{-1} + 2^{-2} + \dots) \times H$$

Where:

- $S$  = Total supply (100,000,000 AEGS)
- $R_0$  = Initial block reward (500 AEGS)
- $H$  = Halving interval (100,000 blocks)
- The series  $1 + 2^{-1} + 2^{-2} + \dots$  sums to 2

Thus:

$$S = 500 \times 2 \times 100,000 = 100,000,000 \text{ AEGS}$$

The halving interval corresponds to around 208.33 days ( $60 \times 60 \times 24 \times 100,000 \times 180$ ), or roughly 7 months, ensuring a controlled emission schedule.

## Coin Issuance Schedule

HALVING CYCLE	DURATION DAYS	BLOCK REWARD	STARTING BLOCK	AEGS ISSUED	CUMULATIVE AEGS
1	~208	500	100 k	50 000 000	50 000 000
2	~208	250	200 k	25 000 000	75 000 000
3	~208	125	300 k	12 500 000	87 500 000
4	~208	62.5	400 k	6 250 000	93 750 000
5	~208	31.25	500 k	3 125 000	96 875 000
6	~208	15.625	600 k	1 562 500	98 437 500
7	~208	7.8125	700 k	781 250	99 218 750
8	~208	3.906 25	800 k	390 625	99 609 375

Note: Subsequent cycles contribute negligible amounts, converging to a total supply of 100,000,000 AEGS.

## Emission Curve

The coin emission follows a geometric decay due to the halving mechanism. The cumulative supply after  $n$  halving cycles is:

$$S = R_0 \times H \times \sum_{k=0}^n \left(\frac{1}{2}\right)^k$$

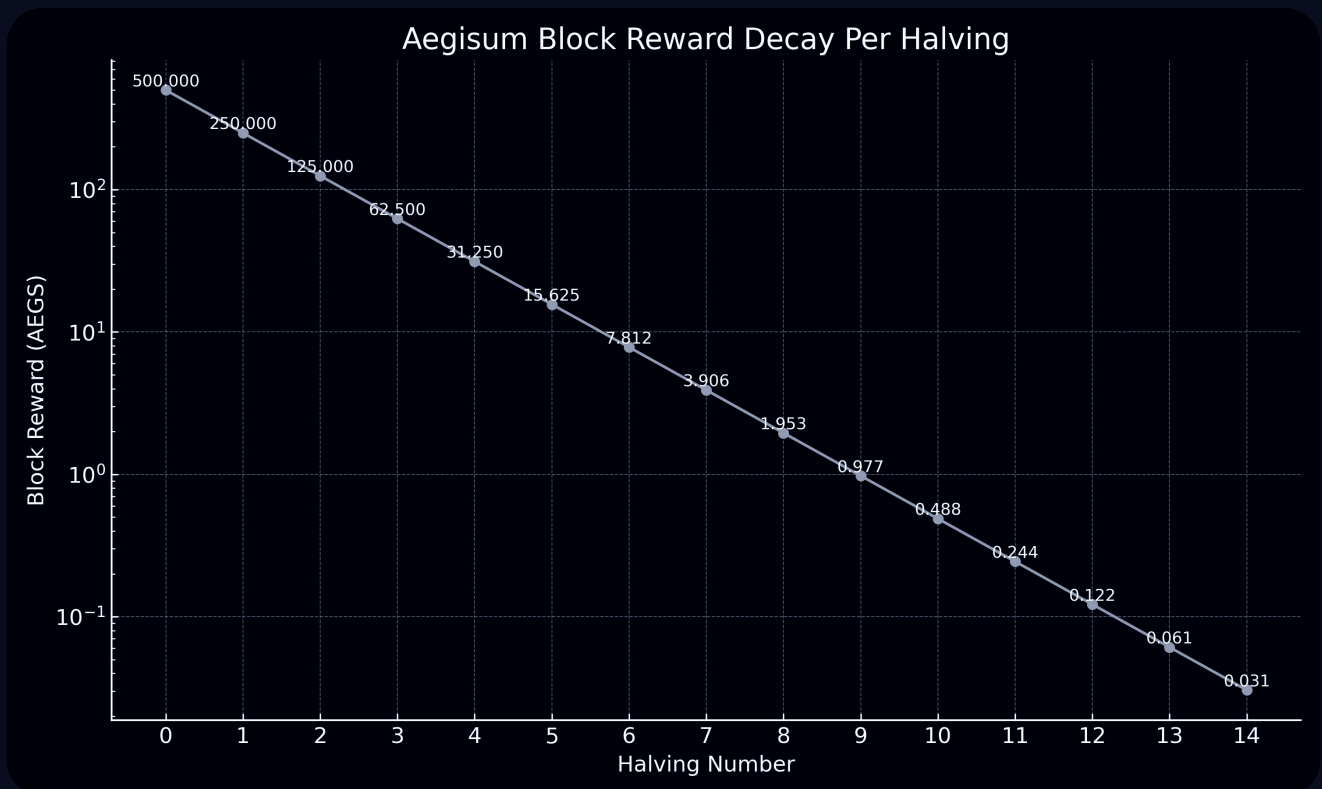
Where:

$R_0$  = Initial block reward (500 AEGS)

$H$  = Halving interval (100,000 blocks)

$$\sum_{k=0}^{\infty} \left(\frac{1}{2}\right)^k = 2$$

As  $n$  approaches infinity, the series converges to 2, resulting in the total supply of 100,000,000 AEGS. This predictable emission curve ensures long-term scarcity and value stability.



# Social Responsibility

Aegisum integrates social impact into its ecosystem by allocating a portion of transaction volume to initiatives like tree-planting, services such as blockchain auditing and investigative research aimed towards the exposure of rug pulls and scams.

This ties blockchain activity to tangible environmental benefits, crypto safety education and scam prevention, setting a new standard for socially responsible cryptocurrencies.



# Conclusion

In addressing the limitations of security and transparency, Aegisum paves the way to the future where blockchain technology is synonymous with trust and transformation for the greater good. As the world continues to gravitate towards the use of digital currencies, Aegisum is the shining light of how innovation may be used for the greater good. To the individuals who wish to leave their mark on the universe of cryptocurrencies, Aegisum presents a strong argument for participation. Together, we strive to build a future where decentralized finance is not an idea anymore but a reality that works for everyone.

