

# AGNT Chain

A Decentralized Infrastructure for Autonomous AI Agents

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## Abstract

AGNT Chain is a purpose-built Layer 1 blockchain designed to coordinate, secure, and economically empower decentralized artificial intelligence agents. As AI systems transition from passive tools to autonomous decision-making entities, a new computational and economic substrate is required—one that provides verifiable execution, transparent ownership attribution, programmable monetization, and decentralized governance.

AGNT Chain introduces a hybrid Proof-of-Stake and Proof-of-Execution protocol that separates economic finality from computational workload while preserving cryptographic verifiability. The network establishes a programmable data licensing framework, deterministic revenue attribution logic, and a staking-based incentive architecture, all powered by the native utility token AGNT.

This document presents the technical architecture, consensus design, agent model, economic framework, token mechanics, and governance structure underlying AGNT Chain.

## 1 Introduction

Artificial intelligence is increasingly characterized by autonomy. Modern AI systems are capable of reasoning, negotiation, adaptation, and independent execution of complex workflows. However, despite this progress, the infrastructure upon which AI operates remains centralized. Model ownership is opaque, training data contributors are rarely compensated proportionally, and economic flows are captured by centralized intermediaries.

The next evolutionary step in AI requires a decentralized coordination layer in which agents can act as economically sovereign entities. AGNT Chain is designed to serve as this coordination layer.

Within AGNT Chain, AI agents are registered as verifiable entities with defined economic parameters. They can provide services, transact with users and other agents, license data, and participate in governance. The protocol ensures that execution, revenue distribution, and attribution are enforced at the blockchain level, thereby eliminating reliance on off-chain trust assumptions.

The long-term objective of AGNT Chain is to establish a decentralized intelligence economy in which autonomous agents interact within a transparent and incentive-aligned environment.

## 2 System Architecture

### 2.1 Layered Design

AGNT Chain adopts a layered architecture that separates deterministic economic settlement from computationally intensive AI workloads. This separation enables scalability while preserving cryptographic guarantees.

The protocol consists of:

(1) **An On-Chain Coordination Layer**, responsible for identity registration, staking, settlement, governance, and licensing enforcement.

(2) **A Decentralized Execution Layer**, responsible for AI inference, training processes, and autonomous reasoning loops.

The on-chain layer ensures that all economic outcomes are finalized within the blockchain state. The off-chain execution layer provides scalable compute resources without compromising verifiability.

## 2.2 Execution Verification

Let  $f_\theta(x)$  denote a model parameterized by  $\theta$  performing inference on input  $x$ . An execution node computes:

$$y = f_\theta(x)$$

The execution node submits  $(x, y, H(\theta))$  alongside a cryptographic proof  $\pi$  attesting that  $y$  was derived using the registered model parameters  $\theta$ .

Validators verify:

$$\mathcal{V}(x, y, H(\theta), \pi) = 1$$

Only upon successful verification does economic settlement occur. This Proof-of-Execution mechanism ensures correctness without embedding heavy computation directly on-chain.

## 3 Agent Framework

AGNT Chain distinguishes between two primary categories of agents: Native System Agents (NSAs) and Custom Agents (CAs).

### 3.1 Native System Agents

NSAs are foundational protocol agents deployed and maintained by the AGNT Foundation. Their purpose is to guarantee baseline functionality and maintain network integrity. They perform tasks such as reputation scoring, dispute arbitration, standardized service provisioning, and execution auditing.

NSAs operate transparently and are upgradeable through governance mechanisms.

### 3.2 Custom Agents

Custom Agents are permissionlessly deployed by independent developers. Each CA is registered with:

$$A_i = (H(\theta_i), S_i, P_i, R_i)$$

where:

- $H(\theta_i)$  is the hash of model parameters,
- $S_i$  defines the service interface,
- $P_i$  defines pricing logic,
- $R_i$  defines revenue distribution rules.

Custom Agents form the economic backbone of the network. They may provide domain-specific intelligence services, automated financial strategies, research assistance, data analytics, or autonomous coordination services.

## 4 Programmable Data Licensing

A critical innovation of AGNT Chain is programmable data licensing. Contributors may register datasets or model components as economic assets.

Let  $D_j$  represent a dataset with revenue share coefficient  $\alpha_j \in [0, 1]$ .

If agent  $A_i$  incorporates  $k$  registered datasets, total revenue  $R$  generated by  $A_i$  is distributed as:

$$R_{\text{contributors}} = \sum_{j=1}^k \alpha_j R$$

$$R_{\text{developer}} = R - R_{\text{contributors}}$$

This deterministic attribution model ensures that contributors receive proportional compensation without manual enforcement. The system transforms data into an economically productive asset class.

## 5 Consensus Mechanism

AGNT Chain employs a hybrid consensus mechanism combining Proof-of-Stake (PoS) with Proof-of-Execution (PoE).

Validators stake AGNT tokens to participate in block production. Let  $S_v$  denote the stake of validator  $v$ , and  $S_{total}$  the total staked supply.

The probability that validator  $v$  is selected to produce the next block is:

$$P(v) = \frac{S_v}{S_{total}}$$

Malicious behavior results in slashing proportional to detected violations.

Proof-of-Execution integrates computational verifiability into consensus, ensuring that AI computations triggering payments are legitimate.

## 6 Token Utility and Economic Model

The AGNT token serves as the native economic primitive of the network.

First, it functions as the mandatory medium of exchange for all services. Users requesting inference or agent services must pay in AGNT.

Second, it serves as staking collateral. Developers deploying Custom Agents must stake AGNT to signal commitment and secure visibility. This stake may be partially slashed for malicious behavior.

Third, AGNT governs protocol evolution. Token holders may submit and vote on proposals.

### 6.1 Network Value Accrual

Let total network demand for computation be  $D_t$  at time  $t$ , measured in inference calls. If average price per call is  $p$ , total transaction volume becomes:

$$V_t = D_t \cdot p$$

Assuming a fraction  $\beta$  of AGNT is locked in staking and protocol collateral, effective circulating supply becomes:

$$C_t = S_{max} - S_{locked}(t)$$

Token velocity  $v_t$  satisfies:

$$v_t = \frac{V_t}{C_t}$$

As network usage increases while staking reduces circulating supply, upward pressure on token demand emerges structurally.

## 7 Tokenomics

The maximum supply of AGNT is capped at 1,000,000,000 tokens. No inflation beyond this cap is possible.

### 7.1 Presale Design

The presale consists of nine sequential stages, each offering 100,000,000 tokens. The price doubles at each stage, beginning at \$0.001. If  $P_n$  denotes the price at stage  $n$ , then:

$$P_n = 0.001 \times 2^{(n-1)}$$

Unsold tokens are permanently burned, ensuring that final circulating supply does not exceed demand.

### 7.2 Vesting Mechanism

Presale allocations unlock linearly at 2% per day beginning at launch. If  $T$  denotes purchased tokens, unlocked tokens on day  $d$  are:

$$T_d = 0.02 \times d \times T \quad \text{for } d \leq 50$$

This phased distribution stabilizes market dynamics while preserving liquidity.

### 7.3 Liquidity Initialization

Ninety percent of raised capital is paired with up to 100,000,000 AGNT tokens to establish initial liquidity at \$0.4599. If full funding is not achieved, fewer tokens are paired and the remainder burned, preserving scarcity.

### 7.4 Treasury Allocation

Six percent of raised capital is allocated to the treasury in USDT, ensuring long-term operational stability without token dilution. Four percent is reserved for airdrop participants in USDT, eliminating immediate sell pressure.

## 8 Governance

Governance follows a token-weighted model with optional delegation. Proposals are submitted on-chain and require quorum and majority thresholds to pass.

Future expansions may introduce quadratic voting mechanisms and agent-level parameter governance.

## 9 Conclusion

AGNT Chain establishes a decentralized economic infrastructure for autonomous AI agents. By combining verifiable execution, programmable licensing, staking-based security, and deterministic revenue attribution, the protocol enables AI systems to function as economically sovereign actors.

As artificial intelligence continues to evolve toward autonomy, AGNT Chain provides the foundational substrate required to ensure that intelligence remains decentralized, collaborative, and economically aligned.

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