

NAU

The Currency of Creation

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Built on the XRP Ledger
Powering AI Creators, Digital Creators, and the Autonomous Economy

Abstract

NAU is a native 3-character currency on the XRP Ledger designed to serve as the economic backbone for three converging economies: the AI creator economy, the digital creator economy, and autonomous infrastructure. Unlike tokens built on smart contract platforms, NAU operates as a first-class asset on XRPL with zero gas fees, 3-5 second settlement, and native AMM liquidity. This paper describes NAU's purpose, architecture, tokenomics, and roadmap.

1. The Problem

Three economies are emerging simultaneously, and none of them have adequate financial infrastructure:

1.1 AI Creator Economy

Autonomous AI agents are increasingly capable of generating content, managing portfolios, writing code, and conducting research. These agents need to pay for services, receive payment for work, and manage funds autonomously. Current payment infrastructure requires human authorization for every transaction, creating a bottleneck that defeats the purpose of autonomy. Agent-to-agent commerce requires a currency that can be programmatically managed without human intervention at every step.

1.2 Digital Creator Economy

Artists, musicians, writers, and digital builders create enormous value but capture a fraction of it. Platform fees, payment processor cuts, and geographic restrictions drain 30-50% of creator revenue. NFT platforms promised direct creator-to-consumer payments but most operate on chains with high gas fees and slow settlement. Creators need a payment rail that is instant, nearly free, and globally accessible.

1.3 Autonomous Infrastructure

Self-healing networks, mesh systems, and decentralized services are becoming reality. These systems need economic primitives to pay for compute, storage, bandwidth, and maintenance without human intervention. The infrastructure that runs without humans needs currency that moves without humans.

2. NAU: The Currency of Creation

NAU bridges these three economies with a single, lightweight, programmable currency built on the XRP Ledger. NAU is not a smart contract token - it is a native XRPL issued currency with the same performance characteristics as XRP itself: 3-5 second finality, negligible transaction costs, and built-in DEX trading via the XRPL AMM.

2.1 Why XRPL

The XRP Ledger was chosen for NAU because it provides native token issuance without smart contract complexity, built-in automated market maker (AMM) for instant liquidity, near-zero transaction fees (fractions of a cent), 3-5 second settlement finality, native NFT support (XLS-20), and a proven track record of reliability since 2012. Unlike EVM-based tokens, NAU cannot be exploited through smart contract vulnerabilities because there is no smart contract. The token logic lives in the ledger protocol itself.

3. Tokenomics

Parameter	Value
Currency Code	NAU (3-character native XRPL)
Total Supply	100,000 NAU
Network	XRP Ledger (Mainnet)
Issuer	rBoi8LPNKP3iXKzhVyCi9wwYsjaNRMnZUE
Operational Wallet	rN5vFMQ3rCEHj9Mq3jtkJweJv3tBdDy6TX
AMM Pool	rafEm1cp1jAc9BEAdYDy8vue1JL3Gwpsn6
Initial AMM Seed	50 XRP + 25,000 NAU
Trading Fee	0.5%
Transfer Fee (NFTs)	0.5% royalty to issuer

3.1 Supply Distribution

Allocation	Amount	Purpose
AMM Liquidity Pool	25,000 NAU (25%)	Initial DEX liquidity for trading
Ecosystem Reserve	40,000 NAU (40%)	Creator rewards, agent incentives, partnerships
Team & Operations	20,000 NAU (20%)	Development, infrastructure, marketing
Community & Governance	10,000 NAU (10%)	DAO voting, community grants
Genesis NFT Holders	5,000 NAU (5%)	Airdrop to genesis NFT holders

4. The NAU Ecosystem

4.1 N3O Mesh

NAU is backed by real, operational infrastructure. The N3O Mesh is a multi-node autonomous system spanning distributed servers with self-healing capabilities. It runs algorithmic trading engines, AI intelligence harvesters, content generation agents, and security monitoring - all 24/7 without human intervention. NAU serves as the internal settlement currency for services within this mesh.

4.2 Cosmonaut Cradle

The Cosmonaut Cradle is a breeding ground for autonomous AI entities called Cosmonauts. Each Cosmonaut has evolving traits, lineage tracking, and the ability to merge with other Cosmonauts to produce offspring with combined capabilities. Cosmonauts are represented on-chain as XRPL NFTs, and NAU is used for breeding fees, trait enhancement, and governance voting within the Cradle.

4.3 Genesis NFT Collection

The NAU Genesis Collection consists of 5 founding NFTs minted on XRPL: two Cosmonaut Identity NFTs (Linchpin and Sentinel), a Founder Badge, a Governance Token with 100 voting power, and a one-of-one Genesis Art piece. These NFTs establish provenance and governance rights within the NAU ecosystem. Future NFT collections will be minted using NAU as the fee currency.

5. Security Architecture

Security is foundational to NAU, not an afterthought. The infrastructure employs multiple layers of defense:

Network Security: WireGuard encrypted mesh between all nodes. SSH key-only authentication (passwords disabled). Fail2ban with 24-hour bans. UFW firewall with explicit allow-lists. Rate limiting on all public endpoints.

Application Security: The Social Butterfly marketing agent includes a SecurityKernel with 34 prompt injection detection patterns, DDoS pattern recognition, output credential leak prevention, zero-width character detection, base64 payload scanning, and rate limiting per action type. All content entering or leaving the system passes through this kernel.

Operational Security: Credentials stored in encrypted vault files with chmod 600. Cross-node health monitoring with Telegram alerts. Automatic security updates. Log rotation to prevent disk exhaustion attacks.

6. Roadmap

Phase	Milestone	Status
Genesis	NAU token minted on XRPL mainnet	Complete
Genesis	NAU/XRP AMM pool created	Complete
Genesis	Genesis NFT collection minted (5 NFTs)	Complete
Genesis	NAU website with live data feeds	Complete
Genesis	XRPL-TOML metadata published	Complete
Growth	Moltbook agent registration and posting	In Progress
Growth	Twitter/X marketing automation	In Progress
Growth	Domain registration and SSL	Planned
Growth	Creator badge NFT distribution	Planned
Scale	Cross-chain bridge (XRPL to EVM)	Planned
Scale	NAU-denominated agent marketplace	Planned
Scale	Governance DAO with NFT voting	Planned
Scale	Mobile app for NAU ecosystem	Planned

7. Conclusion

NAU is not a speculative token searching for a use case. It is the economic layer of a living, operational system that already runs autonomous trading, AI agents, knowledge harvesting, and security infrastructure 24/7. The token exists because the system needs it - not the other way around. As the AI creator economy, digital creator economy, and autonomous infrastructure continue to converge, NAU provides the financial rails that connect them all.

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