

eSync Network V1

Unleashing Real-World Blockchain Solutions

Whitepaper V1

29 February 2024

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1 Introduction

eSync Network emerges as a pioneering **Layer 1 Blockchain**, meticulously crafted to bridge the gap between the theoretical potential of Web3 projects and their practical implementation in the real world.

More than just a technological innovation, eSync Network serves as a testament to the seamless integration of advanced blockchain technology into everyday life. Anchored by the robust **Ethereum Virtual Machine (EVM)** framework, our platform provides fertile ground for innovation across diverse sectors.

1.1 Our Mission

Our mission is to unlock the full potential of blockchain technology, making it accessible and beneficial for industries and communities worldwide. With a focus on tangible use cases, eSync Network is poised to revolutionize how businesses and individuals engage with blockchain technology, prioritizing security, efficiency, and scalability.

Join us on this transformative journey as we reshape the landscape of modern technology, bringing the future of blockchain into today's world.

1.2 Our Value

Real-World Integration

We specialize in transforming blockchain from a theoretical concept into a practical, everyday tool, focusing on solving real-world challenges across various sectors and we move beyond ideation to a proven track record to show for.

Made in EU

Developed in the EU with the European regulatory landscape in mind. A perfect fit for the projects following the highest EU regulatory and compliance standards.

EVM Compatibility

Our platform, built on the robust Ethereum Virtual Machine (EVM) framework, offers wide compatibility with existing blockchain platforms, fostering innovation and flexibility.

Cheap and Fast Transactions

The eSync Network enables swift transactions with affordable fees, leveraging Ethereum technology to broaden blockchain use cases for a diverse user base.

Scalability and Efficiency

Designed for high performance, eSync Network guarantees scalability and efficiency, capable of supporting growing business demands without compromising on speed or security.

Enhanced Security and Reliability

Security is paramount in our environment. We provide a highly secure and reliable blockchain platform, ensuring the safety and integrity of our users' operations.

User-Centric Design

eSync Network is crafted for accessibility and ease of use, making blockchain technology approachable for all, while maintaining advanced capabilities.

Cross-Industry Innovation

Our adaptable technology offers cutting-edge solutions for diverse industries, from finance to hospitality, to retail and more.

Strong Community and Expert Support

We are committed to nurturing a vibrant, active, and real community, backed by expert support and resources.

Our focus on practical, on-chain use cases ensures that our blockchain and business model remain market and cycle agnostic. This is because we concentrate on everyday projects that are used by everyday people for everyday solutions.

2 Real World Use Cases

How we bridge the gap between Web3 projects and everyday life.

2.1 Project Highlights

eCredits

eCredits is a brand that encapsulates a dynamic ecosystem, serving as both a cryptocurrency and the collective sum of applications within its expansive network. This includes key features like the eCredits Wallet App, the native cryptocurrency – eCredits (ECS), and the native reward token – eActivity (ACT), along with additional software and services from third-party contributors.

Built upon our eSync Network blockchain, the eCredits Ecosystem thrives on openness and decentralization. The eSync Network brings unique features to the forefront, including the native cryptocurrency (referred to as "ECS"), accessible to individuals worldwide without constraints.

The eCredits Wallet App is a non-custodial wallet that facilitates quick access to ECS and other cryptocurrencies. Core features include non-custodial storage, HD wallet functionality, eSync Network interaction, a map of ECS-accepting businesses, fast transactions, an ACT reward system, third-party cashback, and integration with various services.

Other eSync Network-powered eCredits applications include (1) the eCredits Web Portal, a web application, allowing Merchants, Members and Consumers to access a variety of user-centric features; (2) eCredits-custom public API that allows online stores to easily integrate ECS into their system; (3) a Web Widget, so that ECS can seamlessly be integrated into popular e-commerce applications such as Adobe Commerce, PrestaShop and WooCommerce.

Explore more: <https://ecredits.com/>

Rocksolid Estate AG

Rocksolid Estate AG's ROC Token (ROC) is a real-estate backed digital security token issued on the eSync Network.

Rocksolid Estate AG is a real estate management company that, through this collaboration, enables users to own tokenized participation rights, with a profit-sharing mechanism that aligns with its ventures. Subject to the ROC Token T&C document, investors can receive monthly payouts without the capital requirements that come with traditional real estate investing.

Rocksolid also offers a secure and fully regulated investment opportunity, in partnership with Equito, a MiFID II regulated broker. Investors also get voting rights to shape corporate decisions and can choose to invest in traditional real estate holdings or explore green energy initiatives like solar power plants.

Together with eSync Network, Rocksolid and the ROC Token bring unprecedented accessibility to real estate investments.

Explore more: <https://rocksolidestate.com/en/>

Habsburg Gemstone

The Natural Gem tokenized its €5 million Royal Portfolio on the eSync Network, and in the process introduced the Habsburg Gemstone Token (GEM) backed by real, untreated, color gemstones. This is the world's first 100% tokenized portfolio of exclusive, curated gemstones and jewelry!

What's in the Royal Portfolio? Emerald (€274,000) and ruby (€815,000) necklaces, a Kashmir sapphire (€1 million), and many other precious gems. Users can invest in this portfolio through the Habsburg Gemstone Token on the eSync Network blockchain.

Explore more: <https://www.habsburgfinearts.com>

2.2 Potential Use Cases

Capital Markets – *Already in our portfolio! See: [Cryptix Tokenization](#)*

Unlock a dynamic secondary market, foster fractional ownership, diversify portfolios, and enhance liquidity. Web3 streamlines transactions, offering diverse investors access to high-value assets through innovative avenues.

Real-World Assets – *Already in our portfolio!*

See: [Rocksolid Estate AG](#) (tokenized participation rights)

Break barriers for individual investors. In Real Estate, Web3 streamlines transactions and boosts liquidity. In Trade Finance, it ensures transparency, security, and operational efficiency.

Natively Digital Assets

Tokenization democratizes digital art access, expands markets, and ensures authenticity. In gaming, it establishes true asset ownership, interoperability, and enhances monetization opportunities for creators.

Certifications and Licenses

By blending with Web3, educational credentials gain secure verification, ease of access, and lifelong portfolios. Intellectual Property Management sees efficient rights handling, direct monetization, and global reach.

Supply Chain Optimization

Enable real-time tracking for enhanced transparency, counterfeit prevention, efficient inventory management, and data-driven insights, optimize operations and predict market trends.

Fractional Ownership of Renewable Energy Assets

Democratize investment, lower barriers, and foster community engagement. Increase funding for green energy, enable revenue generation for asset owners and promote sustainability.

Data Monetization and Privacy Control

Empower individuals, provide control over personal data, monetize opportunities, preserve privacy through blockchain, and foster trust with transparent and secure records.

Voting Systems and Governance – *Already in our portfolio! See: [The People's SCE](#)*

Revolutionize election integrity through secure blockchain technology, foster increased voter participation and decentralize decision-making. Trust and accountability improve with verifiable and immutable voting records.

Carbon Credits and Environmental Markets

Incentivize emission reductions and align with climate goals. Tokenization lowers entry barriers, enhancing transparency, and accountability. It facilitates funding for green initiatives through accessible carbon market participation.

Decentralized Insurance (DeFi) Models

Innovate with peer-to-peer risk sharing, customize products, reduce operational costs, and enhance accessibility. Tokenization broadens access to insurance, especially in underserved regions.

Retail – *Already in our portfolio! See: [eCredits](#)*

Tokenized loyalty programs in retail enhance customer engagement with flexible rewards. Tokenization aids dynamic pricing, inventory management, and supply chain transparency for resource efficiency, security, and individual data control.

Healthcare

Ensure secure medical records, foster efficient data sharing for better treatment, and accelerate research participation through token rewards. Decentralized healthcare services enhance accessibility, particularly in remote areas.

Finance

Optimize global trade finance by digitizing documents and accelerating cross-border transactions. Automated debt instruments revolutionize issuance and trading, improving efficiency, transparency, and liquidity.

Energy

Tokenized carbon credits incentivize emission reductions with simplified and transparent trading. Tokenization fosters peer-to-peer energy trading, optimizing renewable energy distribution, reducing grid dependency, and promoting clean energy sources.

Media and Entertainment

Tokenized films, TV shows, and media projects provide new funding avenues and revenue-

sharing opportunities. Tokenized music rights empower artists with control over earnings and fan support.

Gaming and Metaverse

Tokenized virtual assets transform ownership, trading, and value, extending to economic models, creating virtual economies across various digital experiences, and securing digital identities and reputations.

Education and Research

Tokenized credentials ensure authenticity and simplify validation. Tokenization can innovate research funding, allowing researchers to issue tokens for project funding, providing donors with stakes in outcomes or future revenues.

Luxury Goods

Enable fractional ownership of yachts, private jets, and artworks, making high-value assets accessible. Tokenization enhances liquidity, creates a dynamic market, and ensures secure, transparent ownership records with blockchain.

Debt Funds

Convert shares into digital tokens for simplified investment, boost accessibility, enhance liquidity, and automate management, streamlining interest payments and increasing operational efficiency.

Private Equity Funds

Democratize investments with tokenization, welcoming smaller investors. Improved liquidity transforms traditionally illiquid private equity investments, and blockchain ensures transparent and efficient fund management, fostering trust.

Alternative Assets

Offer fractional ownership of unique items like art and antiques. Tokenization broadens the market, increasing liquidity and valuation, while ensuring authenticity and transparent ownership history.

Private Credit Opportunities

Grant direct investor access to markets dominated by institutions. Increased transparency enhances risk understanding, and improved liquidity and diversification elevate investment portfolios.

Sovereign Debt Funds

Open to wider investor participation, breaking entry barriers. Streamlined trading processes enhance efficiency, while improved transparency aids in better risk assessment and management.

VC Funds

Make venture capital investments accessible to a broader range of investors, enable real-time valuation and enhance liquidity. Automated fund management streamlines operations, reduces costs and improves efficiency.

Gems and Precious Metals – *Already in our portfolio! See: [Habsburg Gemstone](#)*

Digitize ownership of precious metals, such as gold, silver and platinum, and gemstones, boosting accessibility and market liquidity. Real-time pricing enhances investment decisions, while secure and efficient trading prevails on diverse platforms.

3 Technical Discussion

The eSync Network is built upon the industry-standard Ethereum, initially adopting a Proof-of-Authority (PoA) consensus mechanism with a 5-second block time. In a significant stride forward, in January 2024, the eSync Network transitioned to a Proof-of-Stake (PoS) consensus mechanism, enhancing security, scalability, decentralization, and energy efficiency across the blockchain.

Notably, eSync Network seamlessly integrates with Ethereum and the Ethereum Virtual Machine (EVM), ensuring full compatibility for interoperability. This means that solutions, tokens, and Smart Contracts designed for Ethereum and the EVM can effortlessly operate on the eSync Network.

Since its 2015 launch, Ethereum stands as the foremost and resilient global blockchain, pioneering the generic smart contract platform. As a benchmark, it boasts the largest smart contract community, featuring diverse projects, stable coins, and active development. Its standout developer tooling includes libraries, support for Solidity and Vyper languages, and comprehensive smart contract development tools. The Ethereum community has contributed various wallets, block explorers, and essential resources.

3.1 Decentralized Governance

The eSync Network is built upon the robust Ethereum protocol, a well-established open source blockchain technology. Having been adopted and extended, this technology serves as an ideal foundation for cultivating a rapidly expanding ecosystem.

While decentralization is a pivotal attribute of blockchain, this technology offers additional advantages:

- *Security:* Hacking a decentralized system is a greater challenge due to the absence of a single point of failure.
- *Resilience:* Decentralized systems thrive independently, free from the need for a central entity to oversee or administer them, showcasing resilience and autonomy.
- *Zero-Trust:* Users place their trust solely in the technology rather than a central entity or organization, benefiting from openness, transparency, and auditability.
- *Transparency:* Every transaction on the blockchain is both verifiable and immutable, fostering heightened trust in the system.

Achieving sufficient decentralization in the eSync Network involves numerous independent participants running Nodes, verifying, and synchronizing the blockchain. Determining the exact decentralization threshold and the number of nodes required is challenging. Additionally, the power of each participant must be considered to ensure system-wide consensus for any changes. The eSync Network employs innovative technological and organizational approaches to establish decentralized governance, preserving the system's resilience and integrity.

3.2 Consensus

In its initial stages, the eSync Network adopted the Proof-of-Authority (PoA) consensus mechanism, leveraging its inherent advantages. This strategic choice allowed the network to initiate with fewer nodes, minimizing susceptibility to malicious actors. The decision aligned with the core objective of rapidly decentralizing the eSync Network, mitigating single-point-of-failure risks, and solidifying trust in the ecosystem.

Prior to the eSync Network's launch with PoA, a planned transition to Proof-of-Stake (PoS) was envisioned, contingent on the live implementation and thorough testing of Ethereum 2.0. Executed in early 2024 alongside the evolution from the "eCredits Blockchain" to the "eSync Network," this shift in the consensus algorithm further strengthened the eSync Network's autonomy since, unlike other alternatives, PoS works with Ethereum – which is what the eSync Network is built upon – offering more decentralization scalability than ever before.

PoS, a consensus algorithm hinging on a validator's stake in the network, significantly improves energy efficiency compared to Proof-of-Work (PoW). It expedites decentralization, allowing validators to join by providing the required stake. PoS incorporates a "slashing" mechanism, penalizing malicious validators by reducing their staked funds until they are excluded from the network. While PoS carries a potential centralization risk, mitigated by the eSync Network's tailored parameters and ECS Tokenomics, it stands out as a superior alternative to PoA, offering high transaction throughput and energy efficiency. In summary, the adoption of the PoS consensus mechanism reinforces the eSync Network's commitment to efficiency, security, and enhanced decentralization.

3.3 Nodes and Validation

To make the eSync Network secure, its integrity needs to be ensured by different participants, the so-called “node operators”. These node operators implement the PoS consensus method by verifying transactions and keeping the ledger up to date across the network. This is also important for the governance of the eSync Network.

- **Stake Size:** PoS relies on validators, to propose and validate new blocks based on the amount of cryptocurrency they hold, commonly referred to as their stake. The stake size parameter on eSync Network determines the minimum amount of cryptocurrency required for an entity to participate in the consensus process. A higher stake size typically increases the probability of being chosen as a validator, thereby influencing the level of participation and security within the network.
- **Validator Selection:** The process of selecting validators in eSync Network is a crucial aspect of the PoS mechanism. Validators are chosen to propose and validate blocks based on their stake size and, in some cases, through a deterministic or randomized selection algorithm. This chapter outlines the specific algorithm used on eSync Network, ensuring fairness, and preventing centralization.
- **Block Creation:** Validators in the PoS system play a pivotal role in proposing and validating new blocks. This section elucidates how the block creation process occurs on eSync Network. Validators are responsible for proposing new blocks, and their proposals are then verified by the network. The mechanisms ensuring the integrity of proposed blocks and the subsequent consensus process are discussed in detail.
- **Block Finality:** Finality in a PoS-based system signifies the irreversible confirmation of a block, indicating that it is accepted by the network. This chapter explains how eSync Network achieves block finality, ensuring that once a block is confirmed, it cannot be revoked. The robustness of this finality mechanism adds an additional layer of security and certainty to the blockchain.
- **Consensus Mechanism Security:** Security is paramount in any blockchain system. This section outlines the security features embedded in eSync Network's PoS implementation. It discusses strategies to mitigate various attack vectors, including the prevention of double-spending, Sybil attacks, and other malicious activities. The aim is to instill confidence in participants regarding the integrity and security of the consensus mechanism.

These parameters collectively define the operational characteristics of the PoS consensus mechanism on eSync Network. Stake size, validator selection, block creation, block finality,

and security measures are intricately designed to create a robust and secure decentralized network, fostering trust among participants, and contributing to the overall success of the blockchain.

Whereas the old PoA configuration admitted new validators by voting, PoS promises to cast a wider net, allowing more validators to stake their ECS and join the network, creating more decentralization – and more trust – in the process.

For eSync Network, the required stake per Validator will start at a relatively low 256 ECS. The new consensus will also enable the running of multiple validators on a single machine, with a default support of 128, 256 or 512 validators per machine.

Operating within the PoS framework, validators will earn transaction fees and receive staking rewards as well. Transaction fees will remain unchanged, although the staking rewards will be 1 ECS per block. Validators will therefore receive 1 ECS per block that you validate plus the transaction fees of all transactions within the block. The more validators, the less the chance that your validator will validate the block. Initially forecast annual returns per validator, sans transaction fees, is:

- 21.95% for 50K Validators in the network
- 9.82% for 250K Validators in the network
- 4.91% for 1 million validators in the network.

3.4 Gas Fees

Gas fees are being distributed to Validator Nodes as a reward for confirming transactions and providing additional security to the blockchain. As opposed to other blockchain protocols, the transaction fees on the eSync Network are intended as a percentage value instead of an absolute value. However, this is not implemented on the blockchain protocol itself (i.e. on a technical level) but is rather a suggestion to all providers of wallets.

The goals of this approach are the following:

- Introduce a fairer ranking for transactions to be mined
- Generally lowering transaction costs due to removal of the bidding mechanic of gas fees (usually, in unequal conventional blockchains faster transactions cost more gas)
- Reducing the impact and the concern about increasing gas fees

These measures are the manifestation of the eSync Network paradigms, effectively creating a more democratic and equal transaction system for everyone.

4 Tokenomics V2 (Post PoS Burn)

Tokenomics V1

Initial Tokenomics at PoA

	# of ECS	% of Supply
Circulating Supply	3.771.203.491	18,01%
Project Treasury	17.228796.509	81,99%
Total Current Supply	63.000.000.000	100%

Tokenomics V2

After migration of network to PoS and after the burn

	# of ECS	% of Supply
Circulating Supply	1.880.000.000	18,01%
Project Treasury	8.608.796.509	81,99%
Total Supply	10.500.000.000	100%
 Burn	 52.500.000.000	 83% of total V1 Supply

4.1 V1 Token Distribution

The maximum total supply of ECS is limited to 63,000,000,000 units.

Circulating Supply

ECS's circulating supply, comprising 18% of the total tokens, is actively tradable on exchanges. To distribute ECS, third-party exchanges like Blocktrade facilitate accessibility, ensuring a broader reach, particularly within the EU. These chosen exchanges must emphasize technological openness for seamless integration, promoting wider ECS adoption.

ECS is tradeable on exchanges like Blocktrade, Bit2Me and Bittrue.

4.2 The Burn

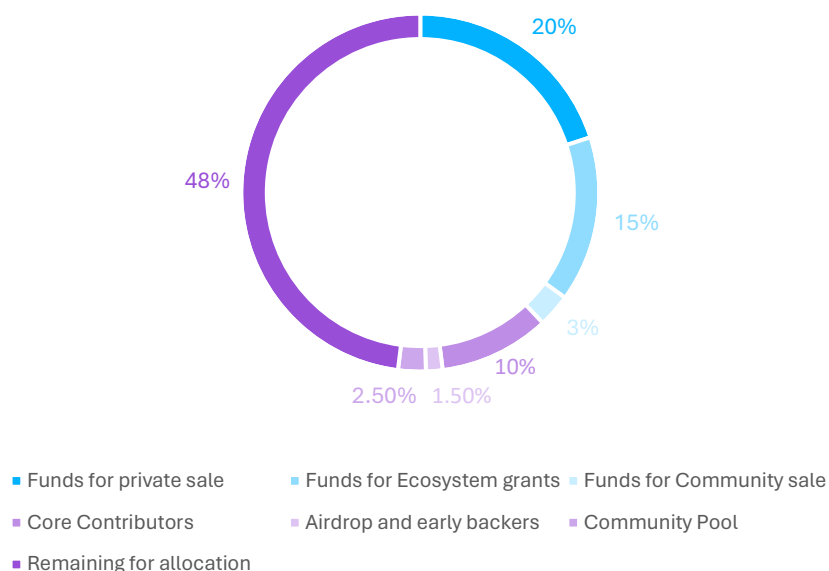
The migration to a Proof-of-Stake (PoS) consensus mechanism marks a pivotal advancement for our blockchain, enhancing its security, scalability, decentralization, and energy efficiency. This shift to PoS is instrumental for our future progress and promises both immediate and long-term rewards. Nonetheless, this change will substantially modify the economic model of our ecosystem, necessitating the burn of approximately 51 to 54 billion eCredits (ECS). This considerable reduction in ECS supply is a significant aspect of the transition and the advantages of this move far surpass its costs.

Burn Highlights:

- 1.88 billion ECS will be burnt upon the activation of the Proof of Stake (PoS) mechanism.
- An additional 8.6 billion ECS from project treasury will also be burnt at the time of PoS activation.
- The Token Loss Dynamic Reweighting (TLDR) accounts for 52.5 billion ECS, constituting 83% of the total ECS supply to be burnt.
- There is a provision for burning an extra 0.9 billion ECS, which represents 8.57% of the relevant amount. 8,6 billion ECS burned from project treasury at PoS activation.

	Current	UOM	Burn	UOM	Future	UOM	% of total
Circulation Supply	3.771.203.491	ECS	1.880.000.000	ECS	1.891.203.491	ECS	18,01%
Project Funds	17.228.796.509	ECS	8.620.000.000	ECS	8.608.796.509	ECS	81,99%
ACT Swap Funds	42.000.000.000	ECS	42.000.000.000	ECS	0	ECS	0%
Total Current Supply	63.000.000.000	ECS			10.500.000.000	ECS	100%
TLDR			52.500.000.000	ECS			

4.3 Project's Treasury Allocations



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