**VEXON WHITEPAPER** 

# **VEXON BLOCKCHAIN**



Vexon Network is a game-changing blockchain protocol that addresses the key challenges preventing cryptocurrency from becoming a mainstream payment method.

# **Abstract**

Cryptocurrencies have struggled with two major barriers to mainstream adoption as a payment system: ease of use and purchasing power volatility. Vexon Network introduces a blockchain protocol that addresses these challenges through an address-based encryption scheme and the creation of stable-value assets. Our vision is to build a global monetary ecosystem that includes reference currencies, stable-value local and regional currencies, and social dividends. The first use case focuses on decentralized social payments using mobile devices to empower users globally.

# 1. Executive Summary

Vexon Blockchain is an innovative decentralized platform designed to offer fast, secure, and scalable solutions for decentralized social payments and Web3 applications. With a foundation based on the Proof of Authority (PoA) consensus mechanism, Vexon provides low transaction fees, high throughput, and energy efficiency while maintaining interoperability across multiple blockchain networks. Key innovations include the VRC20 token standard, a stable-value asset system, and support for cross-chain asset transfers, empowering users with the tools to engage in fast, stable, and secure financial transactions, all from mobile devices.

# 2. Introduction

The adoption of blockchain technology for payments has been hindered by usability challenges and volatility in the value of cryptocurrencies. Vexon aims to overcome these barriers by providing a blockchain solution that prioritizes ease of use, stability, and security. Vexon's focus is to support a wide variety of applications, with an initial emphasis on social payments, allowing users to send and receive funds through mobile phones without intermediaries.

#### Vexon's Solution:

- Stable-Value Assets: Vexon introduces a range of stable-value currencies, from global reference currencies to localized stablecoins, enabling consistent purchasing power for users.
- Address-Based Encryption: Simplifies transactions by allowing users to send and receive payments using identifiers such as phone numbers, making blockchain payments as easy as traditional mobile payments.

# 3. Technology Overview

Vexon leverages the Proof of Authority (PoA) consensus model, where selected validators secure the network. This system is based on a group of trusted and verified validators who validate transactions and ensure network integrity. Key benefits include:

## **Proof of Authority (PoA) Consensus:**

- High Speed: Vexon processes transactions with a block time of 5 seconds, making it one of the fastest blockchain networks available.
- Energy Efficiency: Unlike energy-intensive Proof of Work (PoW) blockchains, PoA uses significantly less energy, making Vexon eco-friendly.
- Security: Validators are selected based on their reputations and are required to maintain high security standards, ensuring robust protection against malicious actors.

#### VRC20 Token Standard:

The VRC20 standard is the backbone of token creation on Vexon, akin to Ethereum's ERC20. This standard allows for the easy deployment and management of custom tokens, which can be used for decentralized finance (DeFi), payments, and other applications.

- Interoperability: VRC20 tokens can interact seamlessly with other EVM-compatible blockchains, allowing users to easily bridge assets across networks.
- Customizable Tokens: Developers can create tokens for use cases like rewards, governance, or stablecoins within their dApps.

#### **Vexon Bridge for Cross-Chain Interoperability**

The Vexon Bridge ensures smooth cross-chain asset transfers between Vexon and other blockchain ecosystems, such as Ethereum, Binance Smart Chain, and others. This interoperability allows users to move assets across different platforms securely and efficiently, expanding Vexon's ecosystem reach.

#### Stable-Value Asset Framework:

One of Vexon's defining features is its support for stable-value assets. These assets can be pegged to global reference currencies (like USD or EUR) or tailored to local economies, providing users with a stable medium of exchange that mitigates the risks of cryptocurrency volatility.

# 4. Use Cases

## **Decentralized Social Payments**

The primary use case for Vexon is decentralized social payments via mobile devices. This system enables users to send, receive, and manage payments without the need for a traditional banking infrastructure, making it particularly useful for:

- Cross-Border Payments: Instant, low-cost international transfers using Vexon's stablecoins.
- Remittances: Users can send funds to family and friends across the globe quickly and securely.
- Microtransactions: Low transaction fees make Vexon ideal for small, frequent payments.

#### **Decentralized Finance (DeFi)**

Vexon supports a variety of DeFi applications, including:

- Staking: Users can stake VEX tokens to secure the network and earn rewards.
- Lending and Borrowing: Decentralized lending platforms can operate on Vexon with low fees and fast transaction times.
- Liquidity Provision: Users can provide liquidity to decentralized exchanges (DEXs) and earn rewards for supporting the Vexon ecosystem.

## **Tokenization of Assets**

With the VRC20 token standard, Vexon enables the creation and management of custom tokens for a variety of use cases, including:

- Digital Assets: Creation of non-fungible tokens (NFTs) for art, music, or collectibles.
- Governance Tokens: Tokens that grant holders voting rights on protocol decisions within decentralized organizations (DAOs).

## **Stablecoins for Everyday Payments**

Stablecoins pegged to both global and local currencies can be used for everyday payments, preserving purchasing power and reducing the risk of volatility, making them suitable for:

- Local Commerce: Merchants can accept stablecoins pegged to local currencies without fear of value fluctuation.
- Cross-Border E-Commerce: International transactions can be conducted using Vexon's stable-value assets without concern for exchange rates or instability.

# 5. Tokenomics

#### **VEX Coin**

VEX is the native token of the Vexon Blockchain, playing a central role in governance, staking, and transaction fees within the ecosystem.

• Total Supply: 200 million VEX

#### • Distribution:

o Liquidity: 93%

Governance Rewards: 1.65%
Team & Marketing: 1.65%
CEX Supply Lock: 1.9%
Bridge Supply: 1.8%

#### Use of VEX

- Transaction Fees: VEX is used to pay transaction fees on the network.
- Staking and Rewards: VEX holders can stake their tokens to secure the network and earn staking rewards.
- Governance: VEX holders can participate in on-chain governance by voting on proposals and protocol upgrades.

# 6. Blockchain and Operations of Vexon Blockchain

The Vexon Blockchain is a multi-asset protocol designed to provide a reliable, secure, and scalable infrastructure for decentralized applications and payment systems. The operations of Vexon are structured around several core elements that ensure the security, efficiency, and sustainability of the network, making it suitable for a wide range of use cases.

### **Proof of Authority (PoA) Consensus Mechanism**

Vexon utilizes the Proof of Authority (PoA) consensus mechanism, which is built on the principles of trust and authority. In PoA, validators are pre-selected based on their reputation and reliability, which provides several benefits:

- High Throughput: PoA allows for rapid block creation, with Vexon's block time set at 5 seconds, ensuring quick transaction confirmation.
- Energy Efficiency: Unlike Proof of Work (PoW), PoA doesn't require energyintensive mining operations, making Vexon a more sustainable and eco-friendly blockchain.
- Security: Validators must adhere to strict security protocols, ensuring the network is protected against malicious actors. PoA's trusted validator model also reduces the risk of network attacks compared to less centralized models..

#### **VRC20 Token Standard**

The VRC20 token standard is central to Vexon's ecosystem, enabling the seamless creation and management of tokens within the network. VRC20 tokens operate similarly to ERC20 on Ethereum, offering developers and businesses the ability to issue their own tokens for a variety of use cases, such as:

- Decentralized Finance (DeFi) applications, including staking and liquidity provision.
- Tokenized assets that can represent real-world assets or digital collectibles (NFTs).
- Governance Tokens that allow token holders to participate in decentralized decision-making processes.

## **Interoperability with Other Blockchains**

Vexon is designed to be interoperable with other blockchain networks through the Vexon Bridge, allowing for the seamless transfer of assets across multiple chains. This cross-chain capability provides Vexon with the flexibility to:

- Support Multi-Chain Applications: Developers can build dApps that interact with multiple blockchains, such as Ethereum, Binance Smart Chain, or Solana, expanding their potential user base.
- Enhance Liquidity: By allowing tokens and assets to flow freely between networks, Vexon increases liquidity and accessibility for its users.

## **Smart Contract Deployment and Customization**

The Vexon Blockchain supports the deployment of smart contracts, enabling developers to build decentralized applications (dApps) and automate transactions without intermediaries. Smart contracts on Vexon are:

- Customizable: Developers can create tailor-made contracts for their specific use cases, such as DeFi protocols, gaming platforms, or social payment applications.
- Secure: All smart contracts undergo rigorous validation through the network's PoA validators, ensuring they are secure and free from vulnerabilities.

## **Staking and Validator Operations**

Staking is a core feature of Vexon's PoA consensus mechanism. Validators are chosen based on their stake in the network and their ability to maintain high levels of security and performance. VEX holders can:

- Stake VEX Tokens: Users can delegate their VEX tokens to validators, supporting the security and operation of the network while earning staking rewards.
- Validator Operations: Validators are responsible for validating transactions, securing the network, and producing blocks. They are selected based on reputation and the amount of VEX staked, ensuring a reliable and trusted network.

## **Transaction Efficiency and Cost**

Vexon is built for transaction efficiency, offering:

- Low Transaction Fees: The PoA consensus and optimized network design allow for significantly lower fees than most PoW or PoS blockchains.
- High Scalability: Vexon can handle thousands of transactions per second (TPS), making it suitable for dApps requiring high throughput, such as decentralized exchanges (DEXs), payment systems, and high-volume financial services.