



**PRIVACY
IS
FREEDOM!**

Privacy For Life
@kore.life

**KORE Official Whitepaper
Revision 1.2**

TABLE OF CONTENTS

- I. Introduction
- II. Background
- III. KORE Components
 - I. Tor Node Network
 - II. KOREPoS
 - III. “Surfs Up”
 - IV. OBFS4 EZ
 - V. KOREVoIP
- IV. Current KORE System Overview
 - I. Economy
 - II. Rewards
 - III. Security
 - IV. Masternodes
- V. Ecosystem
 - I. KOREBay
 - II. ATMs
 - III. KOREPhone
 - IV. KOREMesh
 - V. ÆtherOS
- VI. Conclusion

Introduction

KORE is a decentralized peer-to-peer digital currency, designed to provide private, secure, and anonymous transactions. As well as securing and anonymizing interactions between its users and their recipients. Unlike other privacy coins who's sole focus is on the scrambling and obfuscation of transactions, KORE focuses on complete end to end anonymization of all facets of user interaction, from browsing the internet to P2P communication. In doing so, KORE aims to provide full spectrum privacy to its users as well as a heightened security infrastructure for its network.

Fully utilizing the IP obfuscation security of Tor, the KORE wallet also utilizes its own proof-of-stake (KOREPoS). Its features include anonymous VoIP phone calls, a Tor browser for surfing the web and a decentralized marketplace with the option of no transaction history. Additional privacy functions, including an entire operating system, are in the works as well.

Background

KORE Projects were officially launched on October 14, 2017 as a blockchain transfer from an older project initially begun in June 2014 called KoreCoin. In order to fulfill the prime objectives of the project, which were faltering under the original leadership, KoreCoin was taken over by a new team. This new Team was put together and headed by MikeMike.

At the time of the change-over, the roughly 2 million coins already in circulation were moved to the new chain, and made accessible to their owners. The new team is highly motivated and passionate about the KORE Projects - with the mission (among other things) "is to provide an entire ecosystem that facilitates privacy and security". KORE Projects sponsors those doing good to peoples and the planet, and hopes to continue doing so.

KORE is a dual PoW/PoS (Proof Of Work, Proof Of Stake) coin, which is now in the KOREPoS stage. KOREPoS minting rewards are based on the current moneysupply vs the maxsupply of 12 million coin. After 100,000 coins were mined, KORE moved away from PoW to complete PoS, and then KOREPoS. This allows KORE to be minted instead of mined. The benefits of this are many, including a substantial decrease in energy use and reduced costs to sustain the network. Furthermore, this allows for better security and a lesser degree of centralization via mining consortiums. KORE is in the process of perfecting its own ecological consensus algorithm that best suits security and ultimate decentralization (KOREPoS). As well as potentially other new algorithms which would use even less resources.

KORE Components

KORE is a project that aims to revolutionize the way people communicate, use the internet, and spend their money; providing users with a decentralized and public blockchain solution that maintains online privacy for all aspects of interaction and commerce. Within KORE, users will have the option to access a marketplace that allows for complete anonymous purchases, hold various communications through end to end encrypted VoIP and send transactions that are almost instantaneous with near-zero fees. All routed over Tor and most importantly, implementing blockchain technology to the fullest extent possible.

I. TOR NODE NETWORK

Central to the entire KORE network, is the use of onion addresses from the Tor network. This technology obfuscates IP addresses so all full nodes running on the network can maintain privacy, all while processing blocks and keeping consensus. Unlike major coins like Bitcoin, and even most privacy coins, transactions, PoS minting and PoW mining in KORE cannot be traced back to a user's IP address. This is thanks to the KORE implementation into the onion routers implemented within its network. Obfuscation, or the hiding, of IP addresses in the most critical aspects of the wallet is central and a required base level method of effective privacy and security.

Because KORE is a permissionless blockchain network, based on the Bitcoin core 0.1xx code base, any user can run a full node by installing the KORE wallet and downloading the current blockchain. Upon doing this, an onion address is generated by the new node and then all network communication is routed through Tor. KORE has and is continuing to work on methods to keep it current with Bitcoin's updated Core as well as Tor version, making it more secure and stable for Tor while providing a better firewall of privacy for its users.

For more information on how the Tor network works, please visit their technical documentation here: <https://www.torproject.org/docs/onion-services.html.en>

II. KOREPoS - A critical improvement to Proof-of-Stake Algorithms

A problem that many traditional Proof-of-Work blockchains try to solve is the amount of energy spent by the mining process and the need of specialized equipment. There are a few technologies that are trying to solve this. However, none of them seem to take every problem related to a decentralized consensus into consideration. Nor do they seem to consider the lack of security when there's no work involved in the process of creating new coins.

We analyzed many so called Proof-of-Stake coins and did not find any point in the code that proved an actual stake of coins, nor was there a check for those supposed staked coins. It is worth noting that at the time this document was written, the only Proof-of-Stake protocol that people believe will work as it should, is still under development by the developers of the Ethereum Network, Vitalik Buterin et al. KORE developers believe KOREPoS successfully mitigates these issues.

III. “SURF'S UP!” - THE TOR BROWSER

Built within the KORE wallet, “Surf’s Up!” is a Tor browser that allows nodes to safely and anonymously surf the internet while servicing the KORE network. The benefit of this is 2 fold. One, this increases security for both users and the network as it diminishes potential attacks and threats to the personal identity of a user when surfing the web on an IP address. By using the Tor onion network, KORE users maintain complete anonymity while accessing sites like third-party websites, decentralized exchanges, wallets and any other websites within the Tor browser. When using the Tor Browser properly a Users Internet browsing history cannot be tracked, cataloged nor sold since it is not linked to the Users IP.

The second benefit of this is that it incentivizes people to run a full node in exchange for easy access to anonymous web surfing. This increases network stability and scalability while maintaining a secure and anonymous infrastructure.

IV. OBFS4 EZ

In addition to the above, many forms of Pluggable Transports (PT) will be supported in KORE, and by extension, in the "Surf's Up" browser. This will include OBFS4, and eventually meek/others, which will allow users behind country wide firewalls to access the world wide web and browse freely, as all people should. Pluggable Transports also increase the level of security by encrypting Tor traffic, as well as making the packets that pass through it appear to be from a regular web server; rather than looking like Tor traffic. This makes PT bridges much harder to block in a nationwide firewall.

V. KOREVoIP - ATTACHMENTS & VIDEO OVER TOR

KORE will soon reintroduce KOREVoIP, an anonymous calling platform built directly into the wallet. Encrypted end to end, this feature, like the Tor Browser, increases overall individual privacy and security. KOREVoIP does this by protecting against potential phishing or snooping on sensitive data, as this could lead to network breaches or account hacks. With KOREVoIP, the calls are 100% anonymous and also untraceable. With a video-calling feature in the works as well, this will be a very attractive feature for users of Skype, Google Voice and other mainstream services currently available. Unlike Telegram and other so-called privacy-centric

platforms, KOREVoIP will not require your GSM/CDMA phone number for account activation.

Besides adding private communications to the network, this feature also provides further incentivization for users to run full nodes on their system, and support the network.

Current KORE System Overview

Currently, there is a little more than 2.2 million KORE in circulating supply, with new blocks having a target of a 60 second mint time, and a percentage of staked KORE as the reward for supporting the KORE network and platform. A 10 percent dev fee is included in every block. The permissionless system allows anyone to host the blockchain and be a full node supporting the network. This, along with its unique Proof-of-Stake model, allows the KORE network to scale as the KORE economy grows. The more stakers, the more robust and secure the decentralized network becomes.

I. THE ANONYMOUS ECONOMY

The KORE economy is driven by the fundamental need and desire of its users to transact and communicate in complete privacy. KORE serves as both a peer to peer cryptocurrency for fast, anonymous transactions, and a platform for using services. These services include its VoIP and privacy-focused marketplace, accessible through the Tor browser in the wallet. KORE plans to integrate atomic swaps onto its chain as well, allowing for the direct exchange of KORE for Bitcoin, Litecoin, and other coins. This will further strengthen the value of the KORE platform and negate much of the market manipulation common with third-party exchanges.

As the anonymous economy grows, KORE will launch a number of other products within its ecosystem to support more facets of daily life that are deserving of privacy. These include an anonymous E-bay style market, an operating system for DApps and potentially, even a phone. As a counterbalance to the ever-increasing state spying apparatus, the KORE p2p anonymous network will continue to serve humanity in its mission to preserve the fundamental basic right to privacy.

II. KOREPOS AND STAKING REWARDS

We analyzed many so called Proof-of-Stake coins and did not find any point in the code that proved an actual stake of coins, nor was there a check for those supposed staked coins. It is worth noting that at the time this document was written, the only Proof-of-Stake protocol that people believe will work as it should, is still under development by the developers of the Ethereum Network, Vitalik Buterin et al. KORE developers believe KOREPoS successfully

mitigates these issues.

Due to its permissionless design, KORE allows anyone to participate in staking. For lower network requirements, staking nodes earn more rewards due to the low number of running nodes and as the network grows, staking nodes earn less frequent rewards but with more value due to the deflationary design of KORE. Thus, the KOREPoS system naturally scales without the energy waste of its PoW counterparts.

III. NETWORK SECURITY

The KORE Network is extremely secure thanks to its use of The Onion Router (Tor) network. Using Tor to communicate mitigates DDoS and hacking attempts on IP addresses of wallets being used to stake.

IV. TOR MASTERNODES

KORE was the first cryptocurrency in the world to integrate Tor directly into its wallet staking, coin transactions, and browser. It was also the first to offer Tor Masternodes.

Due to a critical vulnerability in all masternodes, KORE temporarily removed masternodes in order to protect the network from the Phantom exploit which could have enabled excessive exploitation of the network and depreciated the value and securities masternodes provide to the network. This was done prior to any Tor support the Phantom devs could implement and as such KORE was safe while other coins were being exploited.

KORE will implement an extremely fair and balanced Masternode program. This will allow users who care about the longevity of the KORE ecosystem to support the network by setting up a VPS and running a masternode. The masternodes are awarded KORE for supporting said network and performing a variety of services. Masternodes compete rotationally, rewarded in an evenly distributed way across all other online masternodes.

Because Masternodes are 'always on' they play an important role in stabilizing the KORE network. They will also perform extra duties like processing and aiding in the end to end encryption of KOREVoIP, and other potential services, such as KOREMesh.

The amount of KORE one must lock down for the duration of the Masternode is 500 KORE + any potential monthly VPS hosting fees. Masternode rewards vary depending on the number of Masternodes running and the number of extra services they perform. The reward also varies depending on the amount staked by the block minter. Masternodes that win blocks where the minter stakes only a little coin will be rewarded with a greater sum of the block reward, whereas a masternode that wins a block where the minter staked a large portion of coin will get a smaller fraction of the block reward.

The KORE Ecosystem

A KORE in the near future will feature a number of new DApps and network technologies incorporated into the ultimate digital privacy ecosystem.

I. KOREBay

A decentralized and anonymous p2p marketplace for users who wish for privacy for the selling and buying of everyday items. Because KOREbay is hosted on the Tor network, it is accessible through the KORE “Surf’s Up!” Tor browser inside the KORE wallet. It and the user are protected by the Tor network and its onion layers. The use of KORE to transact purchases is also another added layer of security as well as an added convenience due to its transaction speed and finality. Sellers pay less fees, transact quicker without the fear of chargebacks, can enable escrow and earn KORE for supporting the network by staking. Buyers can decide to transact in total anonymity, making purchases without the fear of malicious scammers and criminals, those selling your data or institutions tracking your actions.

Users can choose to transact with or without recording the transaction history. Because auction marketplaces are viral in nature and seller’s profits tend to increase with the volume of potential buyers, some KOREbay sellers will be incentivized to be public about their transaction history while buyers can also choose to do so, or remain completely anonymous.

KOREbay is also being built with community security in mind. It will use a trust score system for all users. For verified accounts users may migrate their trust score from other marketplaces and other accounts to KOREBay. KOREBay may remove illegal contraband from the site. This provides an extra layer of security, mainly to ensure illegal activities on a per location basis are not being supported on the network.

II. KORE ATMs

In order to legally meet our end goals, KORE will partner with an entity that will provide the means. Besides building KORE through the network nodes and Masternodes, KORE is also targeting growth through a network of KORE ATMs placed strategically across the globe. This will allow for much more liquidity into the KORE market while decentralizing KORE and the network in a very organic manner.

KORE ATMs will allow any person to exchange their local currency, Bitcoin, Ethereum or Litecoin for KORE and the other way around. A large network of these ATMs will provide instant

liquidity and growth to KORE, acting as fiat gateways into the crypto world and beyond.

III. KOREPhone

Like the KORE ATMs, the KOREPhone is a hardware and networking innovation to further expand the reach and scope of the KORE anonymous ecosystem. The potential ultimate end goal for KORE with its Æther OS, is to build its own phone from the ground up. Allowing Community involvement through the use of SDKs. ÆtherOS will have innovative and new privacy firewalls, encryption and apps to protect against spying eyes.

The goal of KOREPhone is to create the first truly pure smartphone that doesn't come with preloaded malware, apps or government spyware and will come with some unique options. This will allow KORE users to communicate and transact mobility in a much more secure and anonymous manner.

KORE plans to start development in late 2021 – early 2022.

IIII. KOREMesh

To expand the KORE network and KOREPhone viability, KOREMesh will allow for all to participate. Whoever wishes to participate will be responsible for setting up and running a base and/or a Mesh seed.

V. ÆTHER OS

KORE's own privacy-focused mobile operating system has been in intermintent works for some time now with plans to release by late 2020 - 2021. This will play an integral part connecting the entire KORE anonymous ecosystem together. Built from the ground up, with KORE principles of privacy and security as the main focus. In time, ÆtherOS will allow anyone with the technical know-how to develop and run DApps and apps without the fear of malware or spyware.

Taking advantage of all the anonymous features the KORE blockchain has to offer, ÆtherOS will open doors to the privacy world that we haven't even imagined yet.

Conclusion

As KORE has grown from its initial inception as a TOR-based privacy coin, it has evolved into an entire ecosystem for fast, secure and private commerce and communication. KORE does this through a vast array of functions and applications that are being incorporated into its wallet. Central to the KORE ecosystem will be the network of KORE masternodes acting as both stewards for the network as well as functioning as obfuscation nodes for KORE transactions.

The KORE ecosystem aims to potentially benefit every citizen on this planet as it provides a secure means to both transact and communicate on a daily basis, in complete privacy. From families, small businesses, to large scale enterprises, KORE is flexible and through the ÆtherOS, which will be fast enough to accommodate all walks of life. It is the intention of the KORE Team to continually deliver products within this secure ecosystem, facilitating secure transactions with speed and ease while providing the infrastructure for complete privacy. After all; Privacy, Is Freedom.