Tokel (TKL) – The Token Platform

Technical support and advice by
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February 22, 2021

Abstract

Tokel aims to be the Komodo ecosystem's Token Platform. It will provide a solid foundation, using existing Komodo Technologies, for token projects to launch and succeed from by offering end-to-end token solutions for fixed supply and non-fungible tokens. Furthermore Tokel aims to provide a wealth of knowledge, information and assistance for open-sourced applications, projects and businesses looking to capitalize on token economics or token applications. The Tokel platform will provide streamlined token creation, explorer and wallet integration, decentralized exchange integration assistance and more.

Contents

1   About Tokel

Many projects, businesses and organisations could significantly benefit from token economics, creation/management, or the tokenization of assets, but do not require or have the ability to create and manage a standalone blockchain. The Tokel platform will be launched as a Komodo smartchain, a fully independent blockchain, and will utilize Komodo platform's Antara Modules (formally CryptoConditions). This architecture will provide token projects with an open-sourced, ready-to-go environment to develop, create, manage, and use their own tokens, however they see fit. Unlike ETH and other token platforms, there will be no gas fees involved. On-chain token creation and transactions will remain accessible for anybody with at least 1 satoshi of the TKL coin.

Tokel will continue to drive Komodo's vision of creating open and decentralized applications that work in a trust-less manner while maintaining the spirit of collaboration and cooperation by using and building upon their existing technologies. Tokel will give back to the wider ecosystem by providing an easy-to-use token integration platform, give development time towards upgrading Komodo Antara Modules and by providing advice to projects/organisations who seek to use blockchain solutions.

1.1   What does Tokel offer?

Tokel will provide the Komodo ecosystem with a dedicated token platform. Tokel will build a solid foundation, using existing Komodo Technologies, for token projects to launch and succeed from. This will be done through the creation of end-to-end token solutions for fixed supply and non-fungible tokens (NFTs). This includes everything from the blockchain architecture, the information, assistance and open-sourced applications for projects and businesses looking to capitalize on token economics or token applications. Projects will be able to use streamlined token creation processes, have token explorer and wallet integrations, immediately trade on the decentralized exchange and utilize the NFT marketplace.

In simple terms, what Tokel aims to offer:

- The blockchain that facilitates tokens.

- An open-sourced all-in-one GUI application.

- A tokenDEX for all tokens on Tokel.

- An NFT marketplace for NFTs on Tokel.

- A free-to-use token test blockchain.

- Easy to use integrations

- Easy to use token creation, usage and management tools.

- Immediate token explorer integration.

- Immediate token wallet integration.

- Open source Discord bot integration.

1.2 Benefits of using Tokel platform

The benefits of creating a token on the Tokel blockchain:

- There are no requirements to create and manage your own blockchain.

- Free, simple to use GUI for token usage, management and creation.

- Free to use TKLTEST chain for any token or Antara Module testing prior to launch or integration.

- Your token will have immediate token wallet integration.

- Your token will have immediate token explorer integration.

- Your token is safe from 51% attacks as Tokel is secured through dPoW. Tokel and your tokens are protected by Bitcoin's hashrate using KMD dPoW technology.

- You will have the ability to sell your tokens immediately after creation with Tokel's inbuilt tokenDEX and NFT marketplace integration.

- Tokel exchange partnerships mean your token will have a centralized exchange listing option. The exchanges are only required to run the Tokel chain to access every single token on it.

1.3 What Tokel cannot offer

- Tokens with variable supply.

- Tokens with individual, on-chain smart contracts (our smart contracts [Antara Modules] are UTXO based).

1.4 Who benefits from using Tokel

A variety of business and organizations can benefit from creating their own tokens or NFTs. For example, companies looking to create equity-based tokens, security tokens, debt issuance tokens or implement asset backed token ownership. Other examples include companies that use loyalty programs, sell tickets, charities looking to tokenize and utilize a public ledger for donations, crowdfunding organizations and many others. There are countless ways of utilizing tokens and NFTs.
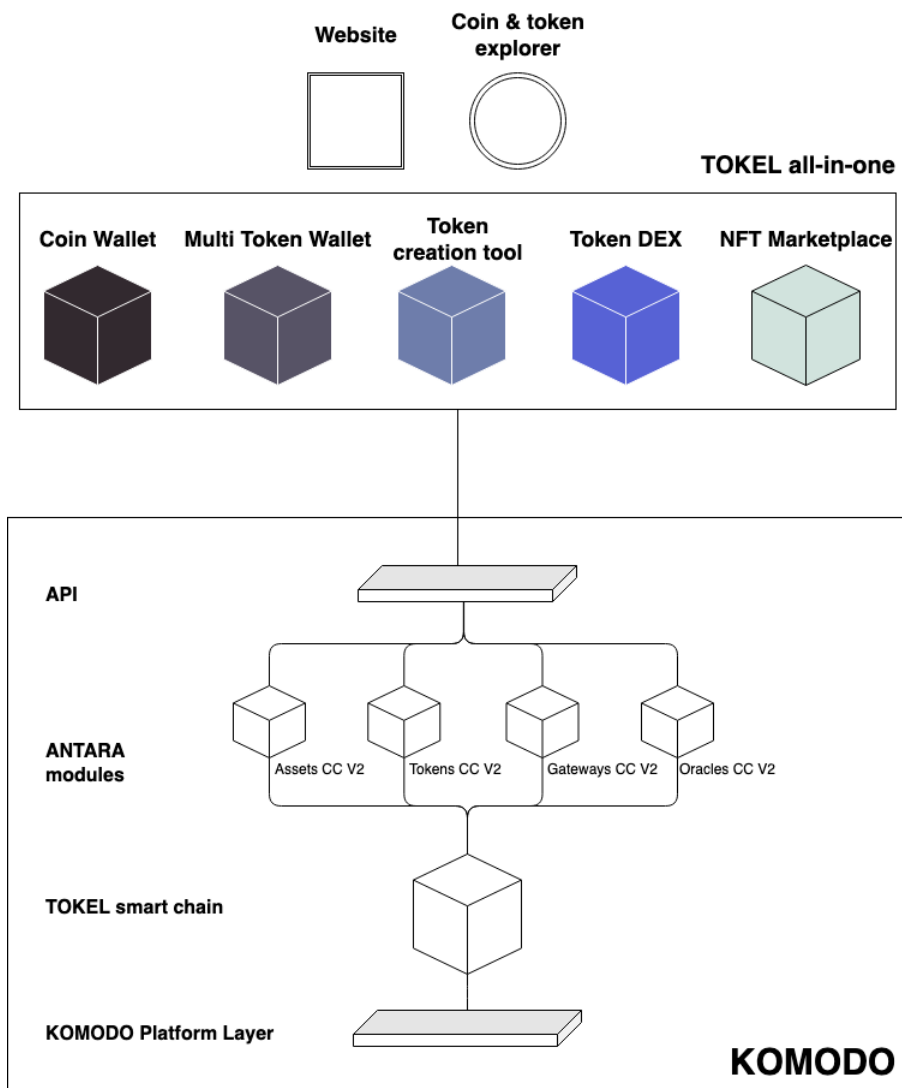
Figure 1: Tokel Platform

A growth area for tokens is their incorporation into video games. Tokel will aim to partner with industry professionals to develop a variety of integrations. The integrations, such as a discord bot integration, unity integration, or Unreal 3D integration, will allow projects to create and use blockchain tokens within their games. Video games stand to benefit significantly from incorporating tokens and token economics into their revenue models. Tokel will continue to seek out experts in this field to work alongside.

1.5   The Tokel (TKL) blockchain

Tokel will be launched as a standalone blockchain using Komodo's smartchain technology. Tokel will be completely separate from the Komodo chain, and will utilize its own blockchain algorithm (Proof-of-work) and associated hashrate. Tokel will utilize Komodo's security services, delayed-Proof-of-Work, in order to protect the chain from 51% attacks. As Tokel is a UTXO based smartchain, it does not host smart contract capability through transactions. Rather, Tokel inherits Komodo smart-UTXO features; Antara Modules. These Antara Modules will be used to create the token platform, give projects leading edge existing technologies to utilize, and allow projects to create their own application specific Antara Module and have it added to the Tokel chain.

Tokel (TKL) is a utility coin and will therefore generate coin value through platform usage, transaction fees, token creation, and most importantly, the tokenDEX and NFT marketplace. Tokel is the central currency used for all token creation and transactions, while being the only coin paired against tokens on the tokenDEX. The greater the number of tokens/NFTs being used on the Tokel platform, the less TKL there is in existence; for every 1 token created, there is 1 satoshi less TKL, giving a theoretical maximum of roughly 2,001,700,700,000,000 tokens on the platform. The more tokens created, the less TKL in circulation overall, effectively creating deflation of the coin. These are the underpinning characteristics that give value to the TKL coin.

2 Tokel chain specifics

Tokel will utilize a multitude of Komodo's Antara Modules. Each module enabling the platform in a different way, and allowing token projects to inherit the smartUTXO features of each one.

Tokel will address scalability issues prior to it becoming an issue by utilising Komodo's scaling technology. If deemed necessary by the community, Tokel has the option to use MoMoM cross-chain technology to create another sister chain(s) that will be fully fungible with the original chain.

For more smartchain specific information, please read the Komodo smartchain documentation https://developers.komodoplatform.com/basic-docs/start-here/about-komodo-platform/product-introductions.html

2.1 Antara Modules

Tokel will utilize the following modules:

TokensCCv2 - This module enables token (coloured coin) creation, storage (wallet) and transfer (sending to others).

AssetsCCv2 - This module facilitates trading tokens (bid/ask offers) on the blockchain and in a decentralized way (tokenDEX).

GatewaysCCv2 - This module allows users to facilitate, manage, and trade tokenized representations of foreign blockchain assets.

OraclesCCv2 - The Oracles module is an aggregated-data oracle solution that brings real-world data onto the Tokel Smart Chain.

The ac_cc parameter sets the network cluster on which the chain can interact with other chains via Antara modules and MoMoM technology. The Tokel chain cluster CCid will be set to 555.

For a more indepth look into these modules please read the documentation at hhttps://evolve.komodoplatform.com

2.2 Tokel Smartchain parameters

```
./komodod
-ac_name=TOKEL
-ac_supply=10000000
-ac_reward=425000000
```

Years	Days	Minutes	Block	Reward	Supply
0	0	0	0	0	10000000
1	365	525600	525600	4.25	12233800
2	730	1051200	1051200	3.30225	13969462.6
3	1095	1576800	1576800	2.56584825	15318072.44
4	1460	2102400	2102400	1.99366409	16365942.29
5	1825	2628000	2628000	1.549076998	17180137.16
10	3650	5256000	5256000	0.4387105711	19213607.46
25	9125	13140000	13140000	0.009965368926	19998790.27
50	18250	26280000	26280000	0.0000181559447	20017007.11

Table 1: Coin Emission Schedule

```
-ac_decay=77700000
-ac_halving=525600
-ac_cc=555
-ac_ccenable=224,243,245,246
```

2.2.1 Coin Emission Schedule

Initial supply: 10 million

Total supply: 20.017 million

Starting block reward: 4.25

Block reward reduction time period: Every 525600 blocks (roughly ever year)
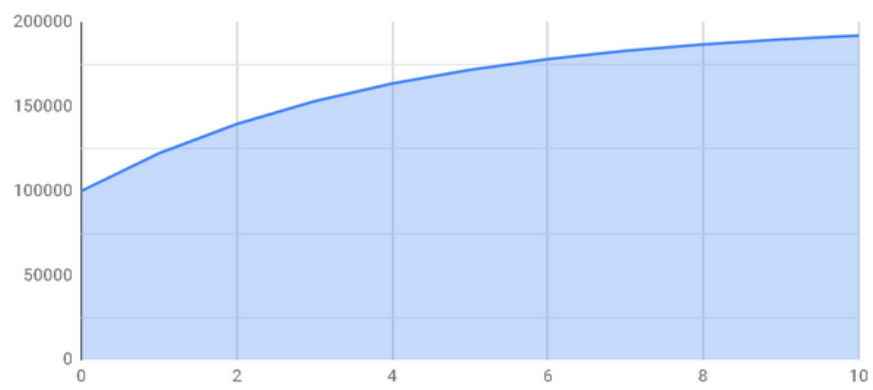
Reduction amount: 23%

Figure 2: Coin Emission
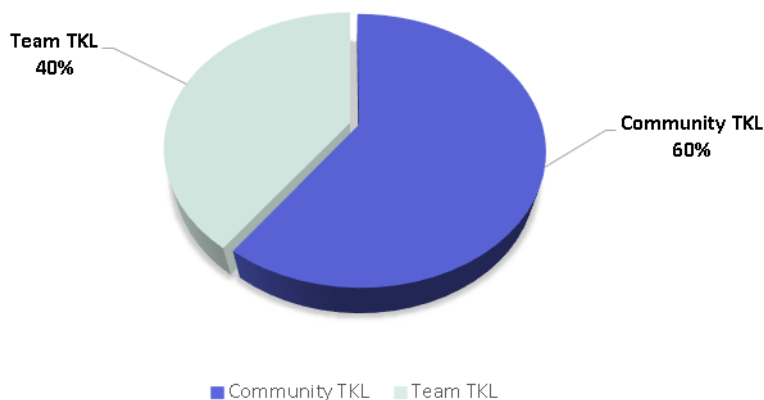
3 Tokel Pre-mine Allocation

Figure 3: Pre-mine Allocation

Tokel will have under half of the total coin supply premined at inception. 60% of these TKL will be allocated to the community in various ways, and 40% will be allocated to the team.

3.1 Total pre-mine

10 million TKL

3.2 Trading incentive/Liquidity pool for tokenDEX

1 million TKL

This pool of TKL will be allocated to incentivising market makers to provide liquidity to tokens, as well as TKL, on the tokenDEX and partnered exchanges.

3.3 Incubation/development/bounty fund

1 million TKL

These TKL will be allocated to the community and used to help incubate projects on the TKL platform and to provide bounties for development/marketing/integration work. TKL will be allocated to developers or specific projects that highlight and showcase the Tokel platform. Examples of projects/bounties that may receive assistance are:

- 3rd party Token Wallets/Explorers

- TokenDEX Trading bots

- Antara Module development

- Proof of concept application creation that showcases the Tokel platform

- Blog posts about TKL

- Project onboarding, finder's bounty

- Fiat-to-TKL gateway applications

3.4 Initial Adopters

2 million TKL

These TKL will be donated to the people who enabled Tokel development from idea inception. Without them, the Tokel platform would not have been possible.

3.5 Early Adopters

2 million TKL

These TKL will be for the people that were not able to assist in initial development, but would like to make a contribution to continued development. These people will make the ongoing development and establishment of the Tokel platform possible.

3.6 Team

4 million TKL

These TKL are allocated to the team to use for internal project development efforts.

17%
1 million TKL

17%
1 million TKL

33%
2 million TKL

33%
2 million TKL

■ Initial adopters

■ Early adopters

■ Trading incentive/liquidity pool

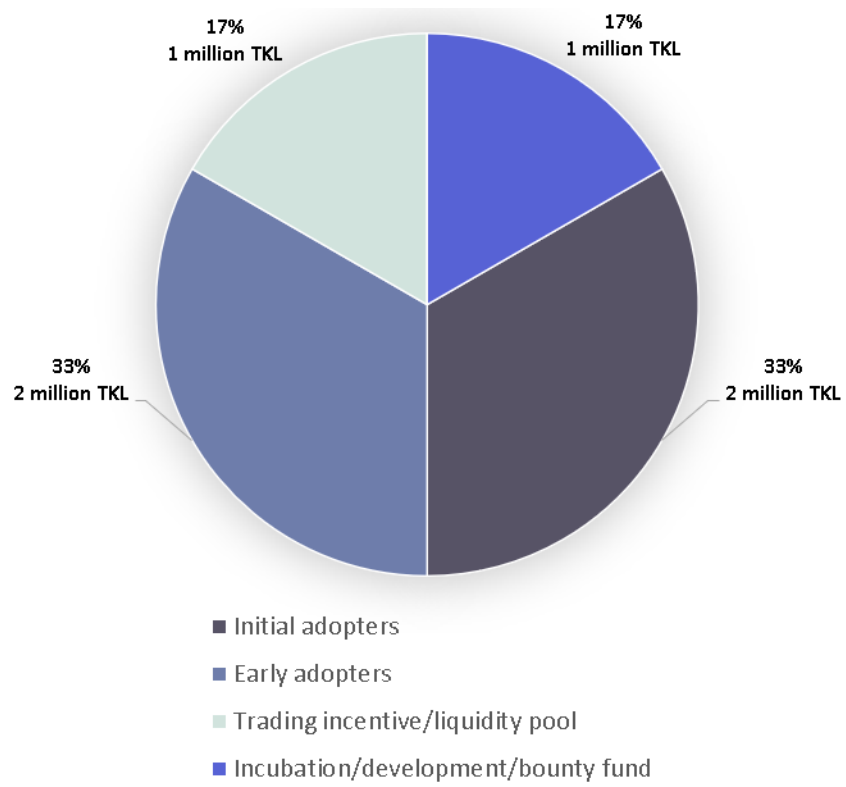■ Incubation/development/bounty fund

Figure 4: Community Tokel Allocation

4 Tokel Development and Applications

Tokel will conduct development efforts and create applications with two goals in mind: streamline token creation/use/management and increase platform adoption.

4.1 Website

A fundamental part of any project, the website will host information about Tokel and articles on various topics regarding Tokel platform utilization. It will include links to: how-to articles/blogs, wallet downloads, coin/token explorers, marketplace orderbooks, where to buy TKL (exchanges). Every part of the website will aim to satisfying the goal of increasing Tokel platform adoption.

4.2 Coin/Token Explorer with marketplace order books

Tokel will create an open-sourced, combined, Coin and Token explorer for people to use. This will be hosted on a subdomain of the main website. This explorer will also provide visual and API access to the tokenDEX and NFT marketplace orderbooks online, without the need to have a running Tokel daemon or application. This will only give the ability to see the orderbooks and marketplace, not place actual orders.

4.3 All-in-one Token Application

A secure, multi-OS, all-in-one application consisting of a Tokel coin and multi-token wallet with an inbuilt TokenDEX and NFT Marketplace as well as a token creation tool.

4.3.1 Features

This all-in-one application will provide the following features:

- Native Tokel Coin wallet
- Token explore and search functions
- Multi-Token wallet
- TokenDEX trading platform
- NFT Marketplace
- Token creation tool

4.4   Future features/applications

- Launch a Tokel test chain application with reduced features (no DEX or marketplace)

- Mobile wallet functionality

- Token IDO options

- DEX market making options

- Cross chain token atomic swaps

4.5   Application release schedule

This release schedule is merely a representation of the order that work may be conducted in. As the development process is difficult to put timelines on, no timeframe promises will be made. We will however provide a quarterly release estimate on the development roadmap and give weekly updates on the development process to keep everybody in the loop of where progress is at.

Release 1 - Coin Wallet MVP

Release 2 – Token Wallet MVP

Release 2.5 – Token Creation Page MVP

Release 3 – TokenDEX MVP

Release 4 – NFT Marketplace MVP

Please refer to the development roadmap for more accurate information on timelines and specific development efforts. We have been intentionally vague here so that we can remain agile in the development process, and aren't constrained to a single specific timeline or development schedule in the event it makes sense to work on different parts of the application first.

5 Summary

To summarize, Tokel intends to provide the Komodo Ecosystem with a dedicated token platform. This aim will be achieved through the use of existing Komodo technologies, paired with the development of an all-in-one GUI application. Within a few clicks, people will be able to create their own token (NFT or fixed supply), look it up within the list of tokens on Tokel, sell it on the tokenDEX or NFT marketplace, or send it to somebody else. People looking to carry out specific testing will be able to utilize the TKLTEST chain, as to not use resources and funds on the main chain, and they will be able to seek assistance from the Tokel community for any specific queries.