

Begin your tokenization journey with No-Code asset tokenization

Introduction

What is tokenization?

Tokenization is the process of standardizing the representation and behavior of asset(s) digitally as a token. A token can represent an asset, a fraction of an asset or even a group of assets. A token can have associated smart contracts that define and control its behavior.

Blockchain relaunched the concept of tokenization as different types of tokens became certified and tradable assets.

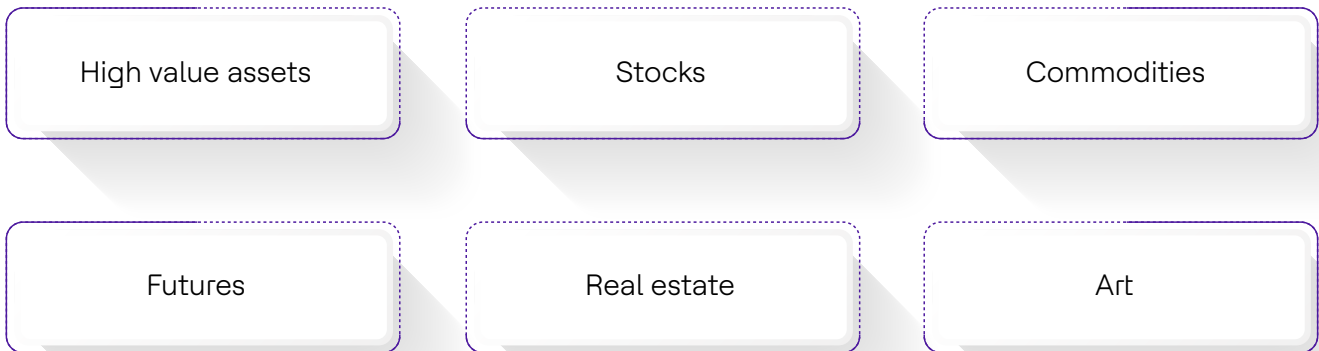


Figure 1: Innovative forms of wealth is being used for tokenization

Discover what's in store for your business

- 01 Increase market participation by introducing fractional ownership
- 02 Unlocks the value of Illiquid assets
- 03 Increased operational efficiency
- 04 Better compliance and rights management over ownership of asset
- 05 Easy traceability of asset ownership

Revolutionizing ownership: NFT and Fungible Token

What are NFTs?

- Non-Fungible is something unique, one-of-a-kind, no two are similar
- Ownership of one token is not considered equivalent to holding any other token

Key use cases:

- Representation for multi-party ownership of indivisible unique assets such as artwork, music videos, merchandise etc.
- NFT-fied unique assets such as copyrights, patents and legal contracts

What are Fungible Tokens?

These are tokens that are issued as a quantity, can be fractionalized and do not have individuality—no two tokens can be differentiated

Key use cases:

- Fractionalization of a high-value, low-liquid asset for investment
- Native platform currency, asset-backed stablecoins
- Currency in metaverse economy
- Central Bank Digital Currency (CBDC)
- Loyalty-based tokens



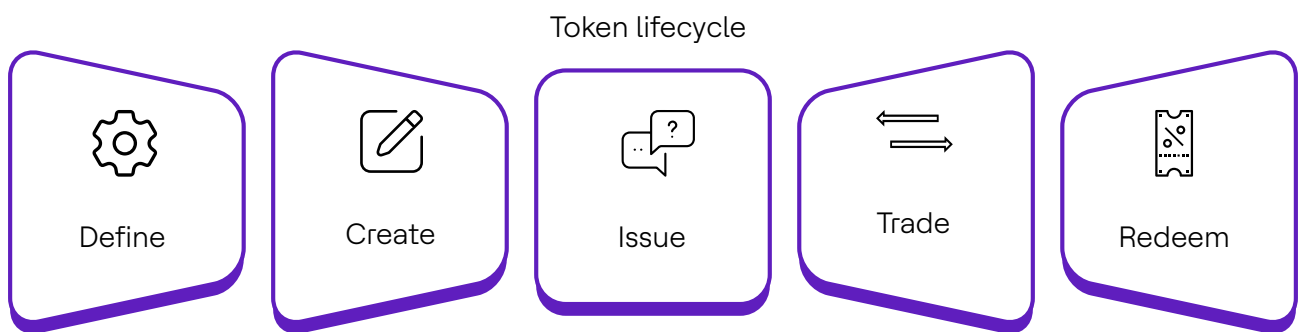
HCLTech Obol – blockchain based tokenization framework

Obol tokenization framework is a no-code solution designed with a focus on enterprises and business users. It provides the asset owners with a framework to convert their asset into multiple tokens and trade those tokens to achieve liquidity. The blockchain-based solution offers greater connectivity/accessibility through transactional efficiencies offered by decentralized infrastructures.

It efficiently connects market participants with marketplace assets and enables direct transactions and exchange of ownership of the asset itself.

It is highly scalable, cost-effective and easy-to-integrate tokenization platform that is architected to deploy on Amazon Web Services (AWS).

Ecosystem Governance



Obol takes care of the entire life cycle of the token, starting from token definition, token creation, its launch and trade at inbuilt marketplaces, token redemption and overarching governance.

Solution

Obol enables quick tokenization of assets as Fungible and Non-Fungible Tokens (NFT). It has pre-defined templates to customize and create tokens quickly. In case users feel the need for a new set of attributes and definitions, they can create an entirely new template.

Key features



Supports FT and NFT

Reduce GTM time of customers for both FT and NFT products



No code solution

Business users can tokenize the assets without writing any piece of code



Smart validation handling

Pick and choose contract validation from the list of pre-defined validation templates



Built-in marketplace

The in-built marketplace provides easy and seamless trading of the created tokens



Pluggability with metaverse

Extend immersive experience with Tokens in Metaverse



Easily customizable

Digital asset attributes associated with any financial instruments can be easily defined and customized

Architected to scale with AWS

- **Infrastructure layer:** Ensure low latency, scalability and availability with Amazon Elastic Kubernetes Service (Amazon EKS), Amazon S3, Amazon EBS, Amazon Cognito, Amazon RDS, DynamoDB and AWS Secrets Manager
- **Distributed ledger technology layer:** Employ Amazon Managed Blockchain (Hyperledger Fabric, Ethereum) or Amazon EKS for Corda. Create and manage tokens easily, including primary issuance, secondary trading and stable coins
- **Core services and API layer:** Microservices-based architecture, hosted using Amazon ECS or Amazon EKS, secured and monitored with Amazon API Gateway
- **Presentation layer:** User interfaces with OpenID Connect (OIDC) authentication via Amazon Cognito, a marketplace for token transactions
- **Integration layer:** REST services for seamless integration with other platforms and systems
- **Alerts and monitoring layer:** Utilize Amazon CloudWatch and AWS CloudTrail for logging and monitoring



Benefits

The thought process behind the creation of Obol was to make the tokenization journey of our customers simple, business-friendly (no-code solution) and fast.

The user does not have to worry about smart contract creation, network setup etc. They just focus on token attribute and definition, the validations required etc. and create and launch their tokens in easy.



Business friendly

No-code solution which is seamlessly scalable



Easy customizations

Can easily define digital asset attributes and customize according to use case



Efficient network management

The network can be efficiently managed and operations can be monitored easily



Easy integration

Can be easily integrated with other systems



Trading on internal marketplace

The built-in marketplace provides a managed way for users to launch and trade their tokens.

Success stories

- Artwork tokenization, as fungible and non-fungible tokens (NFT) for a US-based art handling company
- Issuance and redemption of bonds and coupons as tokens on blockchain in the primary market for a European financial services company

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