

Nobilior: A Multi-Purpose ERC-1155 Tokenization Platform

Inclusive, Non-Binding Whitepaper

Tokenize what matters, on your terms.

Project: nobilior | Website: <https://nobilior.com> | Version: v0.1 | Date: November 2025

1. Disclaimer & Scope

This whitepaper is an informational, non-binding, and forward-looking document describing the current state and potential future evolution of the Nobilior platform ("Nobilior", "the platform"). It does not constitute legal advice, investment advice, financial promotion, solicitation, or an offer of any securities, financial instruments, or regulated products in any jurisdiction.

Nobilior is currently operated as a software platform that provides tokenization tooling and related infrastructure. The platform does not validate, monitor, or enforce the legality, ownership, or accuracy of the information that users choose to tokenize. Responsibility for the content, lawfulness, and use of tokenized assets rests fully with the respective users.

Tokenization of intellectual property (IP), documents, or other assets using the platform does not, by itself, create, transfer, register, or confirm any legal rights, title, or interests. It is the sole responsibility of users to obtain appropriate professional advice (legal, tax, regulatory, and technical) and to take all steps necessary to protect and enforce their rights under applicable law.

The information in this document is provided "as is" and is subject to change without notice. The Nobilior team reserves the right to update, refine, or revise the platform, its policies, pricing, and roadmap at any time. Any descriptions of features, timelines, and partnerships are indicative only and non-binding.

2. Vision & Mission

Nobilior is an accessible, multi-purpose ERC-1155 tokenization platform designed to make secure, low-friction tokenization available to individuals, innovators, and organizations worldwide. The core vision is to reduce the cost and complexity of tokenizing assets while increasing transparency, security, and interoperability across blockchain ecosystems.

Nobilior is built for the emerging token era, where value, reputation, and proof of work can be represented as digital tokens and transferred in a global, programmable environment. Over the next 5–10 years, the goal is to evolve from a general-purpose tokenizer into a comprehensive suite of tools spanning crowdfunding, fractional ownership, intellectual property workflows, decentralized applications, logistics, pharmaceutical innovation, tokenomics, agriculture, tourism, aviation, and beyond.

3. Platform Overview

3.1 What is Nobilior?

Nobilior (nobilior.com) is a live, web-based platform that allows users to tokenize a wide range of assets using the ERC-1155 standard. Through a guided form-based interface, users can

describe their asset, upload supporting material, connect an EVM wallet, and mint ERC-1155 tokens representing their asset on Ethereum mainnet or the Sepolia test network.

The platform anchors compact metadata and hashes on-chain while storing larger files off-chain in secure, managed infrastructure. Users retain control over their wallets and tokens, while Nobilior provides workflow, storage, and marketplace functionalities.

3.2 Current Status

- Live web platform at <https://nobilior.com>
- Multipurpose tokenizer supporting ERC-1155 tokens
- Users can fill out structured forms, upload a cover image and supporting files, and mint on Sepolia (test) or Ethereum mainnet
- No native Nobilior token has been issued as of the date of this document

4. Users & Use Cases

Nobilior is designed as an inclusive platform, open to a diverse community of users across disciplines, industries, and jurisdictions, subject to local laws. Example user groups include, but are not limited to:

- Scientists and researchers minting experimental findings, datasets, or models to create timestamped evidence and digital records in their own wallets.
- Photographers, artists, musicians, writers, and inventors tokenizing creative works and intellectual property for provenance tracking, collecting, and licensing.
- Traders, merchants, lawyers, and enterprises tokenizing documents, agreements, or rights to streamline document management and ownership transfers on-chain.
- Governments, lawmakers, public sector entities, and NGOs experimenting with transparent registries, pilots, or proofs-of-concept using blockchain.
- Investors, founders, and businesses implementing fractional ownership models for assets such as equity-like interests, projects, or high-value items.
- Logistics, transportation companies, and airlines associating tokens with shipments, tickets, or maintenance records to enhance traceability.
- Individuals who want to tokenize personal images, messages, or symbolic assets as gifts or relationship tokens.
- Engineers and technologists wishing to anchor technical work, designs, or model versions on-chain.

While the platform is broadly applicable, the primary focus in the first 2 years is on independent individuals and small teams who seek a straightforward, cost-effective way to tokenize what matters to them.

5. Tokenization Workflow

5.1 Step 1 – Asset Form

The tokenization process starts with a structured form that captures essential information about the asset. The form is designed to be clear, inclusive, and flexible, while avoiding the collection of unnecessary personally identifiable information.

Key fields include:

- Title – A concise title for the asset (up to 120 characters).
- Abstract / Summary – A short description of what the asset is, what it does, and why it matters (up to ~750 characters, plain text, no confidential secrets).
- Tags / Keywords – Comma-separated keywords (e.g., "heat-exchanger, thermal, energy") for discovery.
- Owner Wallet (EVM) – Users connect an EVM-compatible wallet, verify ownership, and optionally provide a display name or organization. Wallet connection helps prove control over the asset at the time of tokenization.
- Disclosure Scope – Users specify whether their asset is Public (listed in the marketplace), Partial (accessible via private links), or Sealed (restricted visibility).
- Embargo Until (optional) – A date until which assets or details should remain embargoed according to the user's preference.
- Licensing Intent – High-level signals such as inclusive, non-exclusive, open, or contact-only licensing intent. These are indicative only and do not replace legal agreements.
- Royalty % – A percentage (e.g., 5%) to be used with EIP-2981-enabled marketplaces for secondary sales.
- Royalty Payout Address – An EVM address designated to receive any applicable on-chain royalties.
- Token Standard – Fixed to ERC-1155 on Nobileor to support both single and multi-supply tokens.
- Supply – Quantity of ERC-1155 tokens to be minted (1 for single ownership, >1 for fractional or multi-unit representation).
- Token Label (off-chain) – A human-readable label such as "Patent Token", "Research Result", or "Membership Pass".
- Preferred Network – Users can choose Sepolia (testnet) for experimentation or Ethereum mainnet for durable tokenization. Users can still mint on their chosen network later.
- Cover Image – A single lightweight image file (PNG/JPEG/WebP, typically <1 MB) to visually represent the asset.
- Additional File Upload – Optional supporting files up to 10 MB in total (PDF, Word, MP3, MP4, JPG, PNG, TXT, ZIP, CSV, and similar). These are stored off-chain.
- Legal & Consent – Explicit confirmations that: (1) the user controls the rights to disclose and license the asset, (2) they understand this is not a patent filing with any government office,

and (3) they consent to processing of their data for tokenization and potential marketplace listing.

5.2 Step 2 – Submission & Local Storage

After completing the form, the user submits the asset. The platform stores the token record locally, preparing it for minting. At this stage, the asset exists within Nobilior's internal systems but has not yet been broadcast to a blockchain network.

5.3 Step 3 – Minting on Sepolia or Ethereum Mainnet

Users with testnet minting enabled in their profile can choose to mint on Sepolia for research and experimentation. Alternatively, users can mint directly on Ethereum mainnet when they are ready for a durable, production-grade on-chain record. Currently, Ethereum is the primary network due to its security and established ecosystem; additional networks may be supported in the future.

5.4 Step 4 – Payment & Fees

Before minting, the platform estimates the costs based on network choice, file sizes, and storage retention period. The total amount typically includes:

- Network gas fees (paid directly by the user on the chosen blockchain network)
- Platform commission, calculated as a percentage of the relevant fees
- Storage and retention fees for off-chain data

Once payment is confirmed, the minting transaction can be executed and the token is recorded on-chain.

5.5 Step 5 – Token Library & Lifecycle

After minting, the token is added to the user's token library within Nobilior. From there, users can view, manage, and initiate transfers of their tokens. Local and testnet-only records are primarily for research and experimentation and are automatically removed from the platform after a limited time (typically around 10 days) unless the user chooses to mint on Ethereum mainnet.

For mainnet-minted tokens, users retain control in accordance with the capabilities and constraints of the underlying blockchain and smart contracts. As long as users maintain their retention plan and pay associated fees, Nobilior aims to keep hosted files available for up to a maximum of 10 years. Policies and fees may be updated over time.

6. Token Transfer & Ownership Updates

ERC-1155 tokens minted via Nobilior are standard, wallet-held tokens. Users can transfer tokens between EVM wallets using compatible wallets and interfaces, independent of the Nobilior platform.

When a token changes hands and the new owner wishes to maintain associated off-chain retention services and platform features, Nobilior provides an ownership update workflow:

1. The new owner visits the dedicated token management page on the Nobilior platform.
2. They log in or register using the email address under which they want the token's platform record to be associated.
3. They connect the wallet that currently holds the token and sign a verification message to prove on-chain ownership.
4. Once the signature and ownership proof are validated, Nobilior updates the off-chain record and associated services (e.g., retention) to the new owner.

This process keeps the platform's off-chain records aligned with on-chain reality, while preserving user custody of the tokens themselves.

7. Marketplace & Discovery

Nobilior includes a marketplace-style interface for publicly discoverable assets. Users can sign in, search for tokens based on tags, titles, or other metadata, and open asset pages to read complementary information.

Where assets are marked as public, their high-level metadata may be viewable by other users. In many cases, interested parties can contact asset owners directly via email after logging in, enabling organic collaboration, licensing discussions, or community engagement.

8. Technical Architecture

8.1 Smart Contracts & Networks

Nobilior currently uses a universal ERC-1155 smart contract to support a wide range of tokenization scenarios. The platform is integrated with Ethereum mainnet and Sepolia testnet. Users can experiment on Sepolia and then move to Ethereum mainnet when ready for production-grade deployment.

Royalties are implemented in line with EIP-2981 where supported by downstream marketplaces. As the platform matures, additional specialized smart contracts may be introduced to support features such as asset-backed tokens, fiat-backed representations, crowdfunding flows, and sector-specific applications.

8.2 On-Chain vs Off-Chain Data

To balance cost, performance, and privacy, Nobilior uses a hybrid on-chain/off-chain model:

- On-chain: Compact metadata, references, and hashes sufficient to attest to an asset's existence, key attributes, and integrity at a given point in time.

- Off-chain: Larger asset files (e.g., videos, PDFs, high-resolution images) and extended metadata are stored in secure databases and VPS infrastructure managed by the platform.

Off-chain metadata is typically transformed into JSON-based formats that can be consumed by wallets, explorers, and external services. Storage fees and retention periods are transparent to users, and long-term availability is linked to the user's chosen retention plan (up to 10 years).

8.3 System Components & Stack

Nobilior leverages a combination of established, scalable technologies, including but not limited to:

- Frontend frameworks such as Django and WordPress for user-facing interfaces and content.
- Backend services implemented in Python, Node.js, PHP, and Bash for orchestration, business logic, and automation.
- Relational databases (e.g., SQL-based systems) and VPS solutions for persistent storage and hosting.

9. Security & Privacy Practices

Security and responsible data handling are foundational considerations for Nobilior. Current measures include:

- SSL/TLS encryption to protect data in transit between users and the platform.
- Infrastructure and storage configurations designed to restrict unauthorized access and reduce attack surfaces.
- Encryption and decentralization concepts applied where appropriate to better protect user data and files.
- A roadmap for periodic smart contract audits during the growth phase (e.g., annually within 3–5 years of scale).

While significant effort is made to secure the platform, no system is perfectly secure. Users remain responsible for the security of their own wallets, private keys, devices, and operational practices. Nobilior cannot recover lost private keys or funds.

10. Economics, Fees & Revenue Model

Nobilior's revenue model is designed to be transparent, usage-based, and aligned with long-term sustainability. Key components include:

- Network Fees – Users pay blockchain gas fees directly when minting or transferring tokens on supported networks.
- Platform Commission – Nobilior charges a commission calculated as a percentage of the relevant minting-related fees, helping to sustain development and operations.

- **Storage & Retention Fees** – Users pay for off-chain storage based on file size, retention duration, and service levels. Pricing schedules may be updated periodically; users who prepay multi-year plans are shielded from interim price changes until their plan expires.

Testnet functionality is offered for research and experimentation only and may change or be discontinued. Users accept the risks associated with test networks, including potential data loss or instability.

11. Roadmap & Future Directions

The Nobilior roadmap is intentionally flexible and non-binding, reflecting the fast-evolving nature of Web3 and tokenization. Indicative directions include:

- Decentralized finance instruments and asset-backed tokens (e.g., project tokens, real-world asset representations).
- Fiat-backed or stable-value tokens integrated with Nobilior’s tokenization flows.
- Advanced document tokenization and automated workflows for contracts, agreements, and regulatory documentation.
- Crowdfunding and community-funding tools leveraging ERC-1155 and related standards.
- Ultra-liquid token models and marketplace enhancements to improve discovery and secondary market activity.
- Extended sector coverage across logistics, pharmaceuticals, agriculture, tourism, aviation, and other domains.
- Deeper integrations and affiliate relationships with leading wallet providers and Web3 infrastructure to ensure Nobilior is recognized as a reliable, widely compatible tokenization layer.

12. Governance, Legal Status & Roles

At the time of drafting this whitepaper, Nobilior has not yet been incorporated as a dedicated legal entity in any jurisdiction. As a modern, decentralized-oriented platform, there is no current obligation to incorporate; however, the team reserves the right to form one or more entities in any appropriate jurisdiction in the future.

Presently, Nobilior primarily acts as a software provider. Over time, the platform may expand into additional roles such as marketplace operator or custodial service provider, subject to applicable law and regulatory developments. Any such evolution would likely be accompanied by updated terms, policies, and compliance measures.

Because the platform does not and cannot comprehensively monitor user activity or the content of tokenized assets, Nobilior does not assume responsibility for user behavior or for verifying rights, licenses, or compliance. Users are responsible for ensuring that their use of the platform is lawful, ethical, and consistent with all applicable regulations.

Tokenization of IP, documents, or other assets via Nobilior does not automatically create legal rights, titles, or enforceable interests. It is a technological tool that facilitates interaction with blockchains. Legal rights arise, if at all, from underlying agreements, registrations, contracts, and applicable law.

13. Risk Factors & Limitations

- **Regulatory Uncertainty** – Blockchain and tokenization are subject to evolving regulatory frameworks. Future changes may impact how Nobilior or its users operate.
- **Technical Risk** – Smart contracts, infrastructure, or third-party dependencies may contain vulnerabilities or bugs that could lead to loss or unavailability of data or value.
- **Market Risk** – Adoption of tokenization models and demand for tokenized assets depend on broader economic and market conditions.
- **Data Persistence** – While retention services aim to keep files available for up to 10 years, long-term storage is not absolute and depends on continued operation, user payments, and technical factors.
- **User Error** – Mismanagement of private keys, wallets, or transaction parameters by users can lead to irreversible losses which Nobilior cannot remediate.

Users should carefully evaluate these and other risks, and they are encouraged to seek professional advice before relying on tokenization for critical or regulated use cases.

14. Conclusion

Nobilior aims to lower barriers to tokenization and make it possible for a broad and diverse community of users to represent, share, and manage what matters to them on-chain. By combining ERC-1155 tokens, a structured yet inclusive workflow, and hybrid on-chain/off-chain storage, the platform offers a practical entry point into the token era without requiring deep technical expertise.

This whitepaper provides a non-binding overview of the current platform, its intended audience, technical architecture, economic model, and future directions. All features, terms, and timelines are subject to change. Readers are invited to treat this document as a living reference and to verify all details against the live platform, official policies, and updates published by the Nobilior team.

Appendix A – Summary of Key Form Fields

Field	Description
Title	Short, descriptive title of the asset (up to 120 characters).
Abstract / Summary	Plain-text overview of what the asset is, what it does, and why it matters (up to ~750 characters).
Tags / Keywords	Comma-separated discovery tags (e.g., "heat-exchanger, thermal, energy").
Owner Wallet (EVM)	Connected EVM-compatible wallet used to prove control over the asset and receive tokens.
Display Name / Organization	Optional human-readable name or organization associated with the owner wallet.
Disclosure Scope	Public, partial (via private link), or sealed visibility settings.
Embargo Until	Optional date indicating when information may be publicly viewable.
Licensing Intent	Indicative licensing stance: inclusive, non-exclusive, open, or contact-only.
Royalty %	Percentage for potential secondary-market royalties (EIP-2981-enabled).
Royalty Payout Address	EVM address designated to receive royalties.
Token Standard	ERC-1155.
Supply	Number of tokens to mint (1 for single ownership, >1 for fractional/multi-ownership).
Token Label	Off-chain label such as "Patent Token" or "Research Token".
Preferred Network	Sepolia (testnet) or Ethereum mainnet.

Cover Image	Single image (PNG/JPEG/WebP), lightweight, representing the asset visually.
Additional Files	Optional supporting files up to 10MB (PDF, DOC/DOCX, MP3, MP4, JPG, PNG, TXT, ZIP, CSV, etc.).
Legal & Consent	User confirmations regarding rights, non-patent nature, and data processing consent.