

INTELLECTUAL CAPITAL MARKETS PROTOCOL

# ORIGIN

## Protocol Whitepaper

The market where ideas become assets, and assets become capital. A non-custodial, decentralized intellectual capital market built on Base and Arbitrum — where any idea can receive cryptographic proof of priority, community validation, and a path to monetization.

Protocol: ORIGIN · Chain: Base (primary) + Arbitrum  
Token: \$CYPH · Standard: ERC-8004 (Proof of Ideation)  
Domain: originprotocol.space · Version: 1.0 · March 2026  
ExiDante Corp

Base	Arbitrum	ERC-8004	ERC-721	ERC-5192
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## ABSTRACT

# Abstract

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ORIGIN Protocol is a non-custodial, decentralized intellectual capital market built on Base and Arbitrum. Users submit ideas, receive cryptographic proof of priority via the ERC-8004 standard, and enter a scored, tiered, community-validated pipeline.

Ideas that reach a Belief Score of 85 or above with 1 ETH or more in ETH backing become graduation-eligible — at which point creators choose to sell at on-chain auction, retain IP and build with protocol treasury support, or license to builders for perpetual on-chain royalty streams.

ORIGIN creates the first liquid market for intellectual capital: a place where the best ideas — not the best-connected founders — rise to the top, backed by real ETH from real participants, and settled permanently on-chain.

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## 1. The Problem

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### 1.1 Ideas Have No Market

Intellectual capital — the raw material of every company, every product, every breakthrough — has no market. Ideas are unprotectable without expensive legal filings. They cannot be valued, traded, or financed. They exist only in the heads of their creators, on whiteboards, in private documents, and in tweets that nobody remembers posting.

The conventional paths to extracting value from an idea are broken. Patents take years and cost thousands. NDAs are unenforceable at scale. Pitching requires access — networks, warm introductions, geography. The result is systematic underinvestment in early-stage intellectual capital, particularly from independent creators without institutional backing.

### 1.2 Priority is Unverifiable

The claim 'I had that idea first' has no mechanism for verification. Timestamps are easily forged. Emails and Slack messages are private. Twitter posts are mutable. There is no shared, tamper-proof record of who originated an idea — and therefore no way to enforce attribution, derive compensation, or establish the kind of priority that underpins patent law. ORIGIN solves this with ERC-8004.

## 1.3 Community Signal is Wasted

Communities of experts — engineers, researchers, domain specialists, early adopters — have enormous signal about which ideas are original, feasible, and marketable. This signal is captured nowhere. Comment sections and Twitter polls are noise. VC dealflow is opaque. ORIGIN proposes a mechanism for converting community expertise into a quantitative, on-chain market signal — the Belief Score.

## 2. Protocol Overview

ORIGIN is built around a single core primitive: the on-chain idea. An idea on ORIGIN is an ERC-721 NFT — a tradeable, transferable IP asset — with a structured set of documentation tiers, a live Belief Score, and a defined set of lifecycle stages.

"The market where ideas become assets, and assets become capital."

The protocol operates on Base as its primary chain, with Arbitrum as co-primary. Base was chosen for its low transaction costs — critical for micro-backing events — EVM compatibility, Coinbase ecosystem alignment, and strong DeFi infrastructure, particularly Aave V3 for idle ETH yield routing.

\$CYPH — the shared access token of the CYPHER ecosystem — gates participation on ORIGIN. A minimum of 100 \$CYPH is required to submit an idea; 1,000 \$CYPH to bid in auctions. \$CYPH carries utility across the broader CYPHER protocol family.

## 3. ERC-8004: The IP Proof Standard

ERC-8004 is an extension of the ERC-721 standard designed specifically for intellectual property claims. An ERC-8004 manifest contains the following fields, all written to Base at mint time:

```
contentHash keccak256 of full idea text (immutable)
semanticHash Voyage AI embedding hash (near-dupe detection)
priorArtResult Result of corpus similarity check at mint
creatorWallet Submitter wallet address
blockTimestamp Unix timestamp of submission block
ipfsCidTier0 Public IPFS CID (title + thesis, 200 words)
beliefAtMint Always 0 -- belief begins at zero
stage PENDING at mint
```

The content hash is the primary proof mechanism. keccak256 hashing means the hash of your idea text is deterministic — the same input always produces the same hash. Minting this hash on Base at a specific block height constitutes an immutable, on-chain timestamp that cannot be altered retroactively.

The semantic hash serves a different function: it captures meaning, not just text. Near-duplicate ideas — those with 92%+ cosine similarity in embedding space — are blocked from minting. This prevents plagiarism via rewriting and protects existing ideators against copy-paste attacks.

### Belief Score Caps (Enforced in IdeaRegistry.sol)

Condition	Belief Score Cap
Missing Tier 1 documentation	Cap at 60
Missing Tier 2 documentation	Cap at 75
Tier 2 complete	Cap at 100 — graduation eligible
Tier 3 present	Auction unlock available

## 4. Idea Lifecycle

Every idea on ORIGIN progresses through a defined state machine. Transitions are controlled by the BeliefOracle contract — no manual admin intervention is required or permitted for standard stage transitions.

PENDING	ERC-8004 minted. AI pipeline running. Awaiting seeding.
SEEDING	\$CYPH holders signal. Community dimension accumulates.
BACKING_OPEN	Belief Score $\geq 70$ . ETH backing accepted. Early 1.5x window opens.
ACTIVE	ETH backing ongoing. Belief Score updated every 24h.
GRADUATED	Belief Score $\geq 85$ AND ETH backed $\geq 1E$ . Path selection available.
SOLD/BUILDING/LICENSED	Path chosen. Auction settled, build underway, or license active.
LEGACY	Terminal. Permanent archive in GraduationRegistry.sol.

## 5. The Belief Score System

The Belief Score is a 0-100 composite metric representing the protocol's collective assessment of an idea's quality. It is computed by the I-05 BeliefOracle agent every 24 hours for each active idea and written on-chain via BeliefOracle.sol when the score changes by more than 3 points.

### BELIEF SCORE FORMULA (LOCKED)

```
belief_score = (originality x 0.25)
+ (feasibility x 0.20)
+ (market_fit x 0.20)
+ (community x 0.20)
+ (specificity x 0.15)
```

Formula weights are governance-locked. Cannot be changed by admin.

## Community Dimension: Weighted Seeder Signals

The community dimension is derived from weighted \$CYPH seeding signals. Seeder tier multiplies each signal. An Architect-tier seeder's signal is worth 2.5x an Observer's. This creates a strong incentive to build seeder reputation over time.

Tier	Name	Acc. Score	Signal Weight
1	Observer	0-99	1.0x
2	Analyst	100-299	1.2x
3	Researcher	300-599	1.5x
4	Scholar	600-899	2.0x
5	Architect	900-1000	2.5x

## 6. AI Agent Pipeline

Six specialized AI agents process every submission. Agents use Claude models (Anthropic) for reasoning, Voyage AI for embeddings, Pinecone for semantic search, and Tavily for live market research. All agents are orchestrated via BullMQ using the origin-idea-structuring and origin-ip-scoring queues.

I-01	<b>IDEA_STRUCTURER</b> Structures raw submission. Scores completeness 0-100. Rejects below 40 with specific improvement guidance. Creator has 7 days to revise before expiry.
DEDUP	<b>DEDUPLICATION</b> BLOCKING AGENT. 92%+ cosine similarity to any existing idea halts the entire pipeline. Security-critical — failure mode is halt, not accept.
I-02	<b>ORIGINALITY_SCORER</b> Computes originality dimension. Runs Pinecone corpus search across all existing ideas. Detects prior art via Tavily web search.
I-03	<b>FEASIBILITY_ANALYZER</b> Technical complexity scoring. Build time estimate, team requirements, key risk identification.
I-04	<b>MARKET_ESTIMATOR</b> TAM/SAM/SOM estimation. Comparable company research. Revenue model scoring. Uses live Tavily data for current market conditions.
I-05	<b>BELIEF_ORACLE</b> Scheduled every 24h per active idea. Computes final Belief Score from all dimensions. Writes on-chain when delta exceeds 3 points.
I-06	<b>GRADUATION_ASSESSOR</b> Triggers when Belief Score reaches 80. Full graduation report, recommended path (sell/build/license), and VC intro recommendations.

Agent error policy: All agents default to ACCEPT on errors — submissions are never blocked due to an agent failure, except DeduplicationAgent (HALT on failure) and BackingEventAgent (PagerDuty immediately — financial-critical).

## 7. Tiered Documentation Disclosure

ORIGIN's tiered documentation model allows creators to progressively reveal information as trust and commitment deepen. Four tiers, each gated by increasing levels of on-chain participation. Tier 3 is encrypted with Lit Protocol and stored on IPFS — never plaintext.

Tier	Access Gate	Contents
Tier 0	Public — anyone	Title, core thesis (200 words), category, Belief Score, creator wallet (anonymized), ERC-8004 hash
Tier 1	Hold \$CYPH	Everything in Tier 0 + full description (2,000 words), market hypothesis, AI assessment summary
Tier 2	ETH backer	Everything in Tiers 0-1 + technical specification, competitive analysis, creator background, roadmap
Tier 3	Bid >= 50% + 1,000 \$CYPH	Everything in Tiers 0-2 + full architecture, IP chain of title, creator identity (opt), financial model

## 8. Graduation Paths

Graduation requires two simultaneous conditions: Belief Score  $\geq 85$  AND ETH backed  $\geq 1$  ETH. When both are met, the creator selects one of three paths. Graduation proceeds are distributed 70% Creator / 20% Backers (pro-rata, early backers 1.5x) / 5% Seeders / 5% Protocol.

### Path A — Sell [72-Hour Auction]

72-hour English auction on IdeaAuction.sol. Any wallet holding  $\geq 1,000$  \$CYPH can bid. Anti-snipe: any bid in the final 10 minutes extends the clock by 10 minutes. The creator may reject the final bid once (one rejection per idea total). NFT and full IP transfer to winning bidder on settlement.

### Path B — Build [Retain IP]

Creator retains full IP ownership. 3x treasury release on milestone completion (Phase 4+). ORIGIN provides VC intro pipeline access and co-founder matching. Existing backers remain engaged as protocol community participants.

### Path C — License [Royalty Streams]

Creator retains full IP ownership. Sets one-time license fee, royalty %, max simultaneous licensees, and duration. IdeaLicense.sol streams royalties on-chain automatically. Licensee can transfer license with creator approval. Non-payment triggers automatic suspension.

Creator attribution is permanent regardless of path. Your wallet is recorded in GraduationRegistry.sol (ERC-5192 soulbound) — immutable, even post-sale.

## 9. Smart Contract Architecture

IdeaRegistry.sol

ERC-721 + ERC-8004

Core contract. Mints idea NFTs. Manages stage machine. Enforces Belief Score caps based on doc completeness. ORACLE\_ROLE controlled by BeliefOracle.sol only.

IdeaVault.sol

ETH escrow

Holds ETH backing in escrow. Phase 2+: routes idle ETH to Aave V3 on Base for yield. Distributes graduation proceeds per 70/20/5/5 split.

[IdeaAuction.sol](#)

**English auction**

72-hour on-chain auction. Anti-snipe extension. Tier 3 unlock on 50%+ bid. Settlement transfers NFT + IP in a single transaction.

[IdeaLicense.sol](#)

**License registry**

On-chain license agreements. Enforces royalty streams on revenue events. Automatic suspension on non-payment.

[GraduationRegistry.sol](#)

**ERC-5192 soulbound**

Permanent, immutable archive of all graduated ideas. NO DELETE FUNCTION — EVER. Creator attribution is permanent regardless of post-graduation transfers.

[BeliefOracle.sol](#)

**Chainlink Any-API**

Accepts belief scores from authorized backend oracle. Enforces doc-completeness caps before writing. Updates every 24h per active idea.

[NarrativeIdeaBridge.sol](#)

**Cross-protocol**

Bridges CYPHER narratives to ORIGIN ideas. DEPLOY ONLY after CYPHER contracts confirmed on Base mainnet. Applies traction bonuses: +12 pts (50K impressions), +25 pts (100K impressions). Hard max: +40 total bonus.

## 10. Token Economics

### \$CYPH — Current Access Token

\$CYPH is the shared access token of the CYPHER Protocol ecosystem. On ORIGIN specifically, it serves four functions: submission gating, seeding signal weight, Tier 1 documentation access, and auction bidding qualification. \$CYPH is not specific to ORIGIN and carries utility across the full CYPHER protocol family.

Action	Requirement
Submit an idea	Stake 100 \$CYPH minimum
Seed with positive signal	Hold any \$CYPH
Access Tier 1 docs	Hold any \$CYPH
Bid in auction	Hold 1,000 \$CYPH minimum

### \$ORIG — V2 Post-Mainnet Token (Not Yet Live)

\$ORIG is the ORIGIN-specific governance and advanced access token planned for V2, post-mainnet. \$ORIG will enable Architect-tier seeding with staking requirements, governance proposals, and protocol treasury participation. Details will be published before TGE. \$ORIG does not currently exist and should not be treated as existing.

## 11. Roadmap

<b>Phase 0 · Complete</b>	origin-site scaffold (Next.js 15 + Tailwind)   Design system established, domain purchased
<b>Phase 1 · In Progress</b>	All 7 marketing pages live on Netlify   Supabase ORIGIN project + waitlist infrastructure
<b>Phase 2 · Backend</b>	Fastify API + BullMQ agents I-01/I-02/I-03   origin-app Next.js 15 + Privy auth   Public idea feed page

<b>Phase 3 · Contracts</b>	IdeaRegistry.sol + IdeaVault.sol on Base Sepolia   Full 6-agent pipeline + SECURITY_AGENT   Tiered documentation disclosure UI
<b>Phase 4 · Graduation</b>	IdeaAuction.sol + IdeaLicense.sol + GraduationRegistry.sol   Aave V3 yield routing live (IdeaVault Phase 2)   First engineered graduation event
<b>Phase 5 · Admin</b>	ORIGIN admin tabs in MAGMA shell   Full API routes + SECURITY_AGENT escalation flow
<b>Phase 6 · Mainnet</b>	External security audit (Certora or Trail of Bits)   Gnosis Safe multisig treasury on Base   Public launch on Base + Arbitrum

## 12. Legal Disclaimer

ORIGIN Protocol is a non-custodial, decentralized intellectual capital market. Users back ideas they believe have merit. Capital held in smart contract vaults. Not an investment contract, securities offering, or financial instrument. Consult local regulations before participating.

Participation in ORIGIN does not constitute an investment in any security. ETH backing is a participation mechanism in a decentralized market protocol. Graduation proceeds are market outcomes, not guaranteed returns. Past idea performance does not indicate future outcomes.

This whitepaper is provided for informational purposes only and does not constitute financial, legal, or investment advice. ORIGIN Protocol and ExiDante Corp make no representations regarding the regulatory status of \$CYPH or any protocol mechanics in any jurisdiction. Users are solely responsible for compliance with applicable law. This document may be updated without notice.

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