

QXMP Oracle & Proof-of-Reserve System

Institutional-Grade Verification for Real-World Assets

ASSET VALUE:
\$1.1 Trillion USD
(Secured)

NETWORK:
QELT Mainnet
(Chain ID 770)

STATUS:
Production-Ready (v2.1)
| Live as of Jan 12, 2026

A Bespoke Solution for Static, In-Ground Assets

QXMP is a purpose-built oracle designed to ingest, validate, and continuously update valuations for large-scale resource assets. Unlike standard feed oracles, it provides a native on-chain Proof of Reserve for physical resources.

TOTAL VERIFIED VALUE

\$1,090,958,787,645.94

Across 12 distinct asset classes



Target: Diamonds, Gold, Lithium, Polymetallic Concessions.

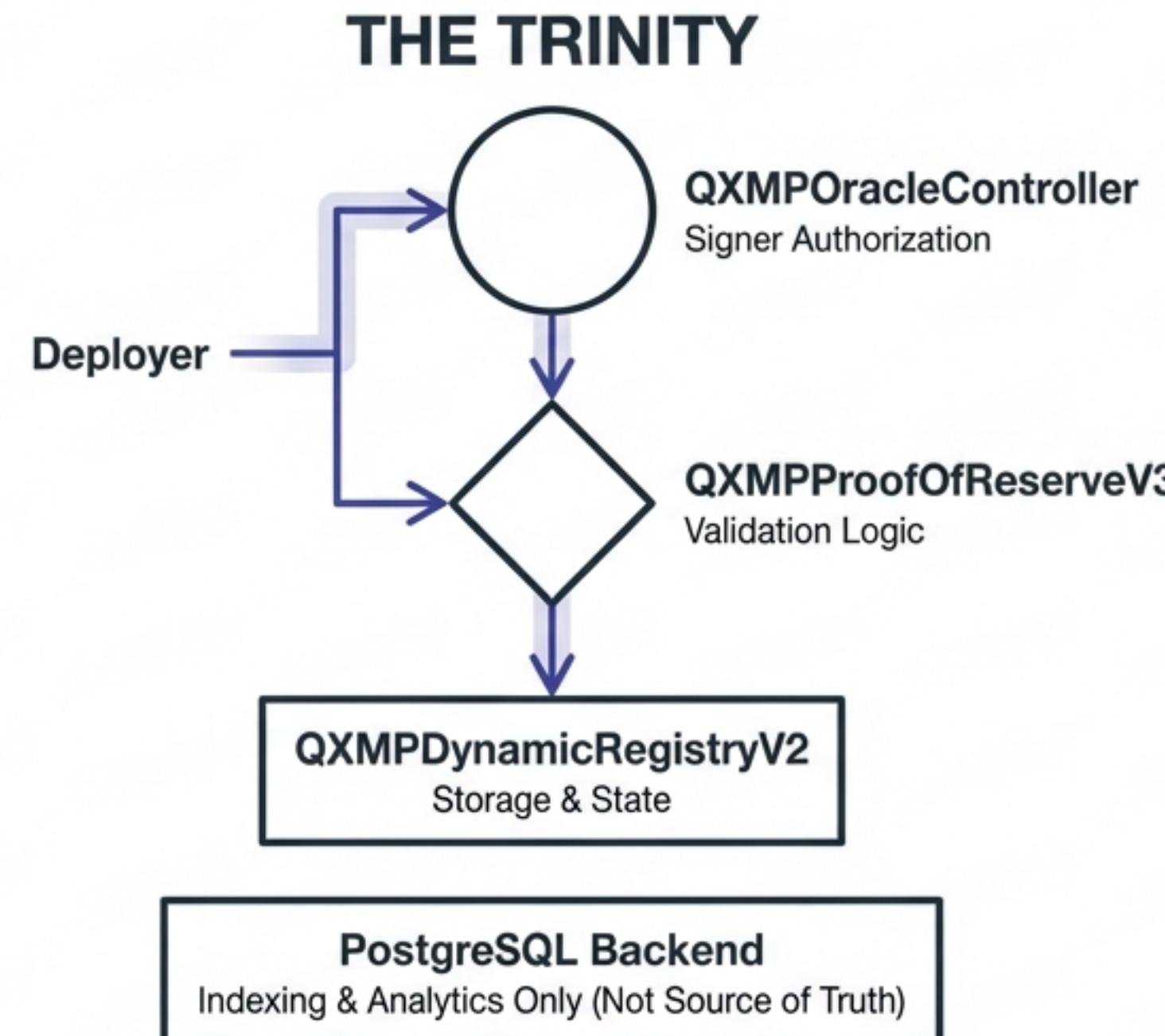


Differentiation: Optimized for geological reporting, not high-frequency trading feeds (e.g., Chainlink/RedStone).



Core Promise: Native on-chain Proof of Reserve, not just off-chain attestations.

The Architecture of On-Chain Truth



Design Constraint: The registry cannot be mutated directly. All value updates must pass through the PoR contract and valid oracle signatures.

Smart Contract Responsibilities & Logic

Governance

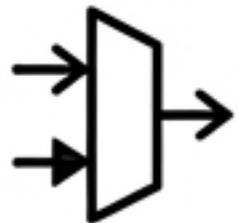
QXMPOracleController



- Manages authorized signers.
- Enforces EIP-191 prefixed message signing.
- Contains stateless verification logic.

The Gatekeeper

QXMPProofOfReserveV3



- Verifies Oracle signatures.
- Enforces freshness constraints (prevents stale data).
- Updates the registry atomically.
- Maintains an immutable historical audit trail.

The Vault

QXMPDynamicRegistryV2



- Canonical on-chain asset registry.
- Stores 8-decimal USD valuations.
- Holds IPFS document references.
- Supports soft-deleted historical fields for forensics.

The Oracle Mechanism: Identity & Signatures

Asset Identity

Assets are identified via deterministic bytes32 hashes.

QXMP:{PROJECT}-{STANDARD}-{JURISDICTION}



```
const id = "QXMP:ATKA2-NI43-ZA";
```

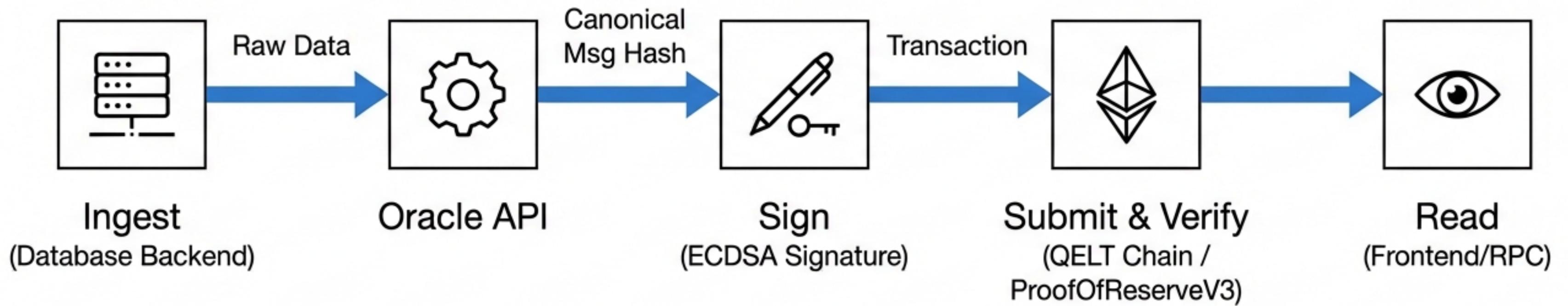
Cryptographic Guarantee

Uses custom ECDSA signatures (EIP-191).
Guarantees 8-decimal USD precision for
institutional accuracy.

Validation

No off-chain trust assumptions exist
once the proof is submitted. Staleness
protection enabled (default 24h).

Data Lifecycle & Verification Flow

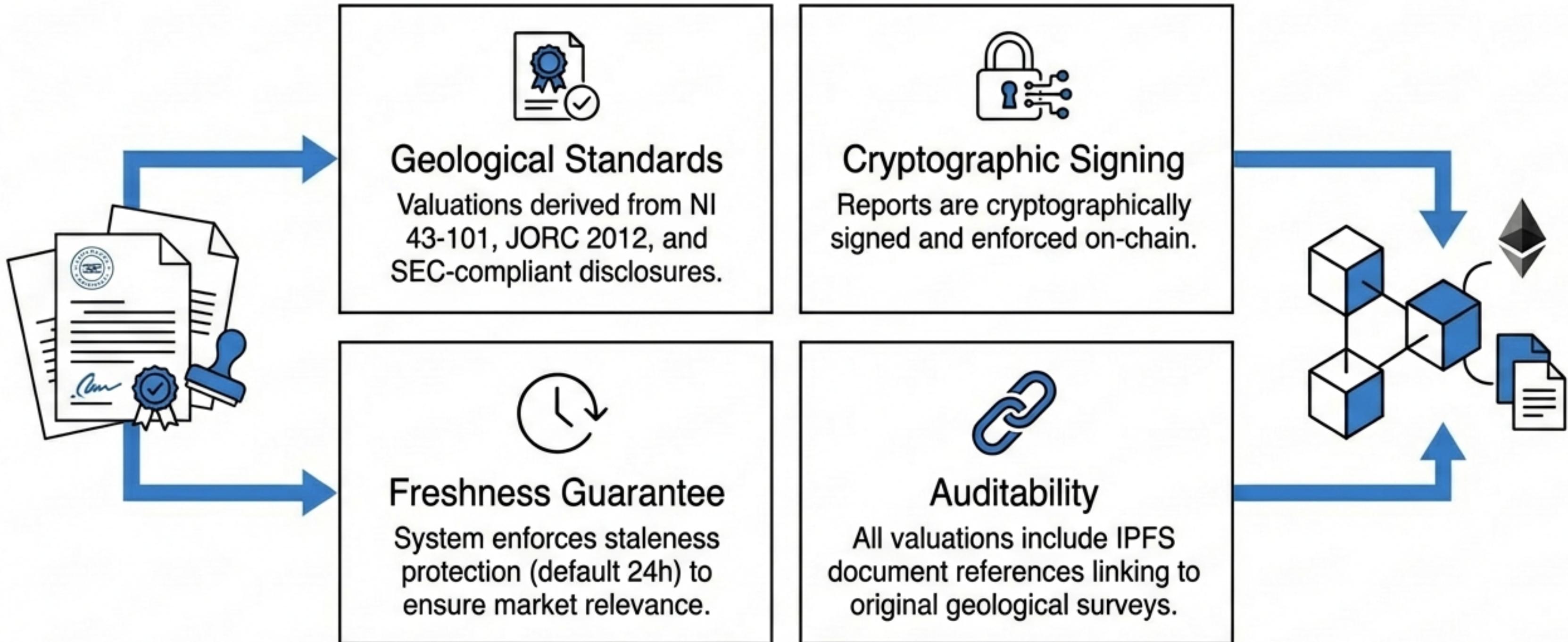


Key Insight: Frontend reads are directly on-chain—no backend dependency for verification.

Registered Assets: The \$1.1 Trillion Portfolio

Rank	Asset Name	Project Type	Verified Valuation (USD)
01	SPMT Multi-Project	NI 43-101	\$352,771,817,278.00
02	Sperrgebiet HMS / Diamond / Gold	Mixed Resource	\$237,500,000,000.00
03	AEM Gold Project (ATKA2)	Gold	\$227,655,712,284.00
04	Rhenosterspruit / Syferfontein	Concession	\$113,989,838,841.85
05	Chibuto HMS Project	Mineral Sands	\$56,245,946,295.00
06	West Coast Diamond Projects	Diamonds	\$41,488,859,999.80
07	Other Assets (Combined)	Various	~\$61,000,000,000.00
TOTAL REGISTERED VALUE			\$1,090,958,787,645.94

Valuation Standards & Freshness



Infrastructure: QELT Blockchain Integration

NETWORK: QELT Mainnet

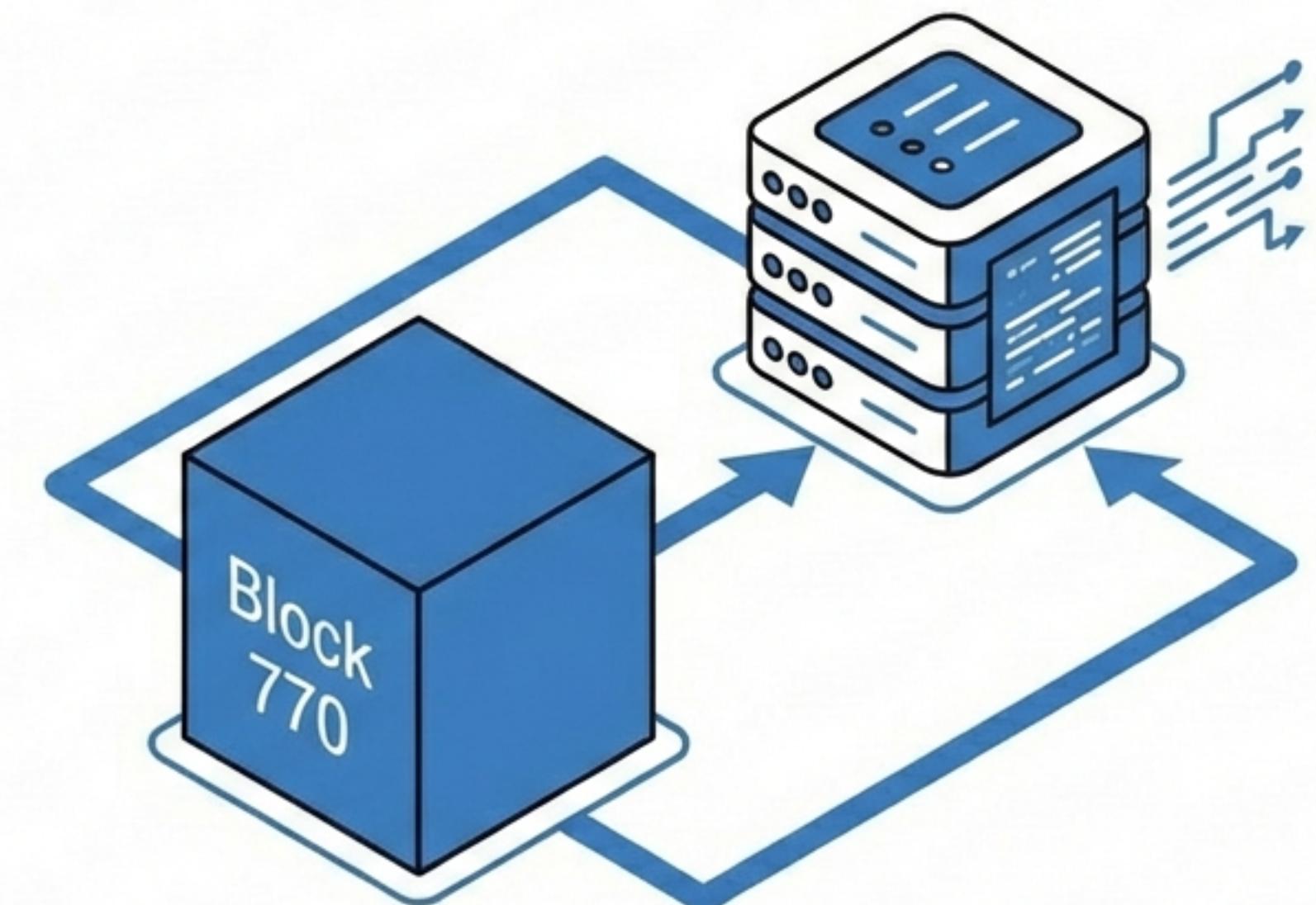
CONSENSUS: QBFT (Proof of Authority) -
Hyperledger Besu

CHAIN ID: 770

RPC ENDPOINT: <https://mainnet.qelt.ai>

EXPLORER: <https://qeltscan.ai>

Verification Status: All contracts are deployed, verified, and publicly accessible on the QELT explorer.



Security Model & Trust Assumptions



Key Management

Private keys are never exposed client-side. Signer rotation is fully supported by the Controller contract.



Replay Protection

Enforced via timestamps and staleness checks; old signatures cannot be reused.



Forensics

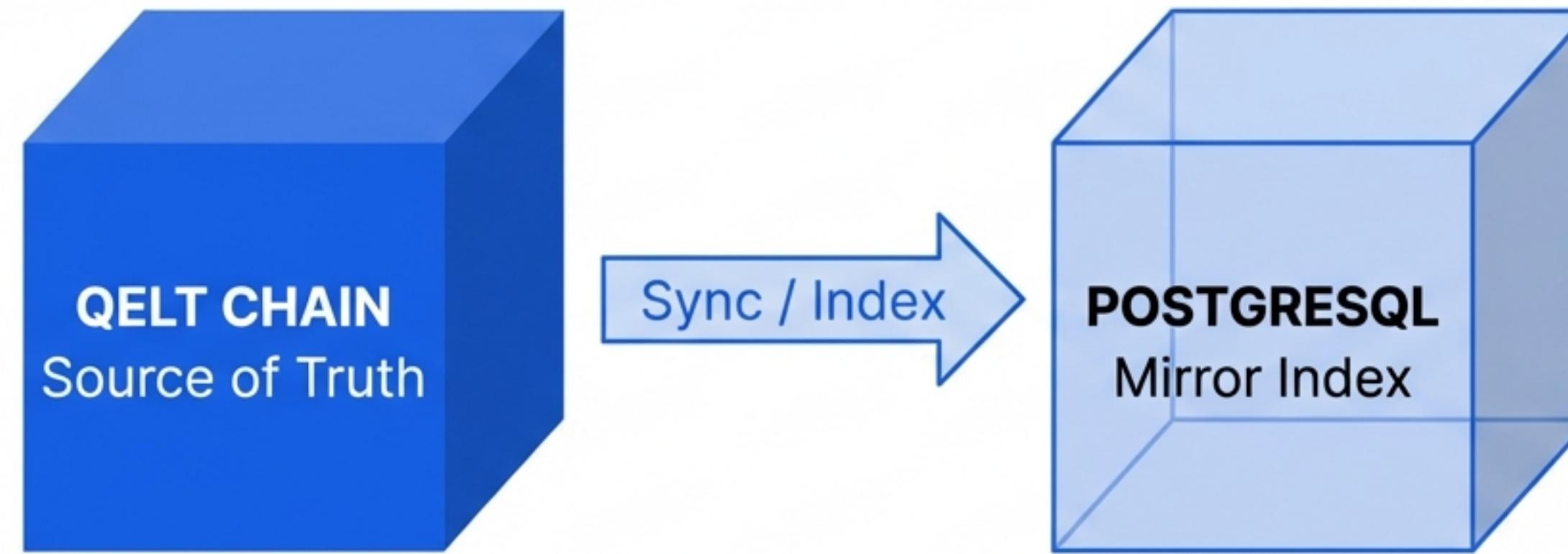
The “Soft-Delete” feature in the Registry preserves forensic traceability. Nothing is ever truly erased, only deprecated.



Immutable History

Every proof submission is append-only and permanently auditable.

The Role of Off-Chain Infrastructure



- The Database is a Mirror, not the Master.
- Tables (`assets`, `oracle_proofs`) map 1:1 with on-chain identifiers.
- API is restricted to admin injection and read-only aggregation.
- **Crucial Distinction:** If the database is destroyed, the value and **proof history** remain intact on the QELT chain.

Deployment & Migration Status

LAUNCH DATE

January 12, 2026

MIGRATION

Ethereum → QELT
Complete



GAS CONSUMED

~6.4 Million

Complex deployment logic

SYSTEM STATUS

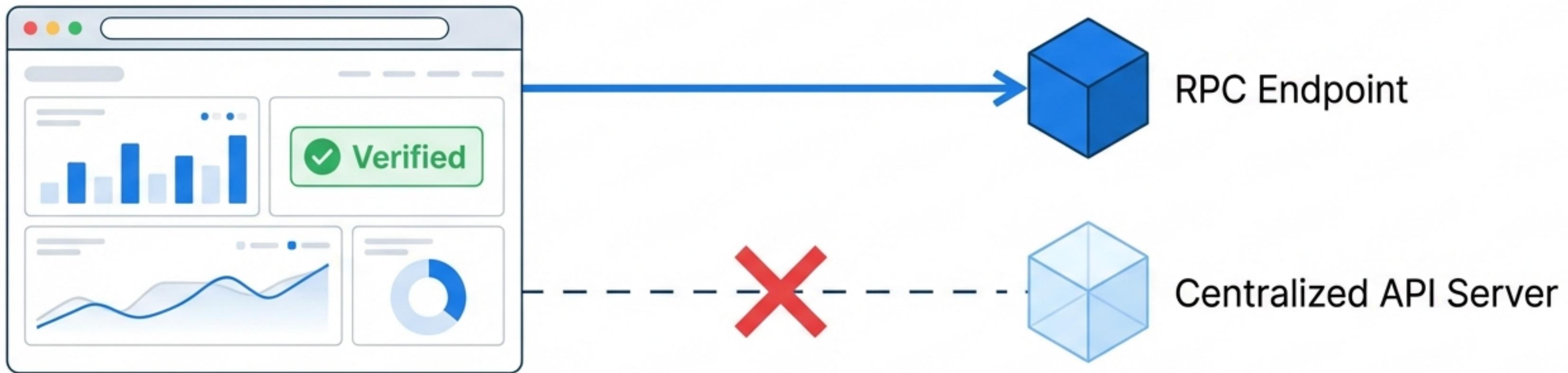


NOMINAL



Legacy oracle references removed. Registry ownership enforced.
Assets re-verified on new chain.

User Experience & Verification



- **Direct RPC Reads:** Frontend fetches data directly from blockchain nodes.
- **Explorer Integration:** Deep-links provided for every transaction and asset.
- **Visual Proof:** Users view Proof History and Registry State directly from smart contracts.
- **No Middleman:** Interface functions independently of centralized APIs.

A New Standard for Real-World Assets

QXMP delivers a production-grade, fully dynamic Proof-of-Reserve system capable of securing in-ground assets at a trillion-dollar scale. By combining deterministic oracle signatures, immutable on-chain proofs, and the QELT Layer-1, we provide a continuously verifiable reserve system that does not exist elsewhere in the market.



VERIFY THE PROOFS ON [QELTS SCAN.AI](https://qeltscan.ai)