

Logical Audit and Provenance Plane

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Discussion

The Logical Audit and Provenance Plane supports reconstruction, accountability, lineage, review, replay, recovery, auditability, and defensibility for FX logical processing.

Logical Audit and Provenance Plane interactions record or relate what happened, when it happened, which FX logical [Nodes](#) participated, which information served as input, which rules or versions the system applied, which decisions the system made, and how outputs relate to inputs.

The Logical Audit and Provenance Plane preserves relationships among FX Transaction Candidates, FX Transaction Records, FX Validation Results, FX Semantic Assertions, FX Contract States, FX Cash-Flow Obligations, FX Policy Decisions, FX Release Packages, FX Audit Records, FX Provenance Records, FX Replay Requests, FX Replay Results, FX logical Nodes, FX endpoints, and [Evidence](#) expectations.

Definition

[Runtime Plane](#) supporting [Audit](#), [Provenance](#), lineage, reconstruction, replay, and defensibility

Source

Specialization of Logical Audit and Provenance Plane from [Part 2: Distributed Node-Based Logical Architecture](#), Section 9.6, and [Audit and Provenance Plane](#) from [Part 1: Conceptual Architecture](#), Section 8.6; generalised from FX audit, provenance, persistence, replay, reconstruction, and evidence-support material in the original FX Demo [Reference Architecture](#).

Note

The Logical Audit and Provenance Plane is not merely logging. Logs contribute to [Audit](#) or [Provenance](#) only when the implementation and evidence layers preserve traceable information that supports reconstruction, review, or evidence.

Example

An FX Provenance Record links an FX Cash-Flow Obligation to the FX Contract State, FX Semantic Assertion, calculation context, model version, producing FX logical Node, and timestamp.

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Last update: **2026/08/04 07:09**

