

3.4 Traceability to Part 2 Distributed Node-Based Logical Architecture / PIM

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Part 2 defines the reusable, distributed, node-based [Logical Model \(LM\)](#) / [Platform Independent Model \(PIM\)](#). This part specializes the Part 2 logical architecture for the FX Demo.

The FX Demo Logical Profile inherits the Part 2 logical models and applies them to the [Foreign Exchange Domain](#). It specializes [Logical Nodes](#) into FX logical Nodes, [Logical Communication Endpoints](#) into FX endpoints, [Logical Data Structure Definitions](#) into FX information definitions, [Logical Runtime Planes](#) into FX runtime-plane participation, [Logical Interaction Patterns](#) into FX interaction patterns, and [Logical Traceability](#) relationships into FX traceability relationships.

Table 3-4: Part 2 logical elements specialized by the FX Demo Logical Profile.

Part 2 logical element	Part 3 FX logical treatment
Logical Node	FX Transaction Intake Node , FX Validation Node , FX Semantic Interpretation Node , FX Contract State Node , FX Cash-Flow Computation Node , FX Policy and Release Node , FX Audit and Provenance Node , FX Health and Observability Node , FX Registry and Coordination Node , FX Replay and Reconstruction Node , and External Oversight Participant .
Logical Node Role	FX-specific roles such as Transaction Intake Role , Structural Validation Role , Semantic Interpretation Role , Cash-Flow Computation Role , Policy Evaluation Role , Release Control Role , Audit Recording Role , Provenance Recording Role , and Oversight Consumption Role .
Logical Communication Endpoint	FX-specific endpoints for transaction intake, validation results, semantic interpretation, contract state, cash-flow obligations, policy decisions, release packages, audit records, provenance records, node status, control commands, replay requests, and replay results.
Logical Data Structure Definition	FX-specific information definitions such as FX Transaction Candidate , FX Transaction Record , FX Validation Result , FX Semantic Assertion , FX Contract State , FX Cash-Flow Obligation , FX Policy Decision , FX Release Package , FX Audit Record , and FX Provenance Record .
Logical Runtime Plane	FX-specific participation in Logical Control Plane , Logical Data Plane , Logical Health and Observability Plane , Logical Policy and Release Plane , and Logical Audit and Provenance Plane .
Logical Interaction Pattern	FX-specific interaction patterns for transaction intake, validation, semantic interpretation, contract-state update, cash-flow computation, policy decision, release, audit/provenance, replay, and reconstruction.
Logical Governance Model	FX-specific ownership, versioning, Logical Compatibility , change control, admission rules, and Logical Policy Constraints .
Logical Traceability Model	FX-specific Traceability from concepts and reusable logical elements to FX profile elements, implementation mappings, deployment artifacts, and Evidence expectations.

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Last update: **2026/07/18 12:33**

