

Part 3: FX Demo Logical Profile

[Go to The FX Demo Root](#)



Financial Systems Archetype

Foreign Exchange (FX) Demo

Abstract

Part 3 defines the FX Demo Logical Profile for the Foreign Exchange domain. It applies the logical architecture from Part 2 to the FX Demo context by identifying the domain-specific logical scope, classification values, stakeholders, information flows, and node responsibilities that support a governed foreign-exchange demonstration. Part 3 does not select implementation technology. It narrows the platform-independent architecture into a domain profile that Part 4 maps onto the Phase 0 implementation baseline.

Contents

- [Foreword](#)
- [Introduction](#)
- [1. Scope](#)
- [2. Relationship to Parts 0, 1, and 2](#)
- [3. Traceability to Parent and Source Architectures](#)
- [4. FX Demo Logical Profile Principles](#)
- [5. FX Demo Logical Profile Overview](#)
- [6. FX Demo Logical Node Model](#)
- [7. FX Demo Logical Node Roles](#)
- [8. FX Demo Logical Communication Model](#)
- [9. FX Demo Logical Information Model](#)
- [10. FX Demo Runtime Plane Model](#)
- [11. FX Transaction and Contract Lifecycle Model](#)

- 12. FX Demo Logical Interaction Patterns
- 13. FX Demo Logical Governance Model
- 14. FX Demo Logical Traceability Model
- 15. Relationship to Implementation Profiles / PSM
- 16. FX Demo Logical Rules and Constraints
- 17. FX Demo Logical Requirements

Contents

* Part 3: FX Demo Logical Profile

- Foreword
- Introduction
- 1. Scope
- 2. Relationship to Parts 0, 1, and 2
- 3. Traceability to Parent and Source Architectures
 - 3.1 Traceability to SIP-RA
 - 3.2 Alignment with FDIS-RA
 - 3.3 Traceability to Part 1 Conceptual Architecture
 - 3.4 Traceability to Part 2 Distributed Node-Based Logical Architecture / PIM
 - 3.5 Coverage of the Original FX Demo Reference Architecture
 - 3.6 Traceability Position
- 6. 4. FX Demo Logical Profile Principles
 - 4.1 Domain Specialisation without Conceptual Redefinition
 - 4.2 FX Domain Scope before Implementation
 - 4.3 Distributed FX Node Network
 - 4.4 Explicit FX Communication Endpoints
 - 4.5 FX Information Structures before Serialisation
 - 4.6 Runtime Plane Separation in the FX Demo
 - 4.7 Traceability from Concept to Logical Profile
 - 4.8 Evidence-Oriented FX Logical Design
 - 4.9 Phase Extension Without FX Logical Redefinition
- 7. 5. FX Demo Logical Profile Overview
 - 5.1 Overview
 - 5.2 FX Demo Classification Path
 - 5.3 FX Demo Logical Architecture Context
 - 5.4 FX Demo Logical Node Network
 - 5.5 FX Demo Logical Communication Model
 - 5.6 FX Demo Logical Information Model
 - 5.7 FX Demo Logical Runtime Plane Model
 - 5.8 FX Demo Logical Traceability Model
- 8. 6. FX Demo Logical Node Model
 - 6.1 Overview
 - 6.2 FX Transaction Intake Node
 - 6.3 FX Validation Node
 - 6.4 FX Semantic Interpretation Node
 - 6.5 FX Contract State Node
 - 6.6 FX Cash-Flow Computation Node
 - 6.7 FX Policy and Release Node

- 6.8 FX Audit and Provenance Node
- 6.9 FX Health and Observability Node
- 6.10 FX Registry and Coordination Node
- 6.11 FX Replay and Reconstruction Node
- 6.12 External Oversight Participant
- 9. 7. FX Demo Logical Node Roles
 - 7.1 Overview
 - 7.2 Transaction Intake Role
 - 7.3 Structural Validation Role
 - 7.4 Semantic Interpretation Role
 - 7.5 Contract State Management Role
 - 7.6 Cash-Flow Computation Role
 - 7.7 Policy Evaluation Role
 - 7.8 Release Control Role
 - 7.9 Audit Recording Role
 - 7.10 Provenance Recording Role
 - 7.11 Health Reporting Role
 - 7.12 Registry and Coordination Role
 - 7.13 Replay and Reconstruction Role
 - 7.14 Oversight Consumption Role
- 10. 8. FX Demo Logical Communication Model
 - 8.1 Overview
 - 8.2 FX Transaction Intake Endpoint
 - 8.3 FX Validation Result Endpoint
 - 8.4 FX Semantic Interpretation Endpoint
 - 8.5 FX Contract State Endpoint
 - 8.6 FX Cash-Flow Obligation Endpoint
 - 8.7 FX Policy Decision Endpoint
 - 8.8 FX Release Package Endpoint
 - 8.9 FX Audit Record Endpoint
 - 8.10 FX Provenance Record Endpoint
 - 8.11 FX Node Status Endpoint
 - 8.12 FX Control Command Endpoint
 - 8.13 FX Replay Request Endpoint
 - 8.14 FX Replay Result Endpoint
- 11. 9. FX Demo Logical Information Model
 - 9.1 Overview
 - 9.2 FX Transaction Candidate
 - 9.3 FX Transaction Record
 - 9.4 FX Validation Result
 - 9.5 FX Semantic Assertion
 - 9.6 FX Contract State
 - 9.7 FX Cash-Flow Obligation
 - 9.8 FX Policy Decision
 - 9.9 FX Release Package
 - 9.10 FX Audit Record
 - 9.11 FX Provenance Record
 - 9.12 FX Node Status
 - 9.13 FX Control Command
 - 9.14 FX Command Acknowledgement
 - 9.15 FX Replay Request

- 9.16 FX Replay Result
- 12. 10. FX Demo Runtime Plane Model
 - 10.1 Overview
 - 10.2 Logical Control Plane
 - 10.3 Logical Data Plane
 - 10.4 Logical Health and Observability Plane
 - 10.5 Logical Policy and Release Plane
 - 10.6 Logical Audit and Provenance Plane
 - 10.7 Cross-Plane Relationships in the FX Demo
- 13. 11. FX Transaction and Contract Lifecycle Model
 - 11.1 Overview
 - 11.2 FX Transaction Lifecycle States
 - 11.3 FX Contract State Transitions
 - 11.4 Validation-Controlled Transitions
 - 11.5 Interpretation-Controlled Transitions
 - 11.6 Cash-Flow Computation Triggers
 - 11.7 Policy and Release State Considerations
 - 11.8 Audit and Provenance State Records
- 14. 12. FX Demo Logical Interaction Patterns
 - 12.1 Overview
 - 12.2 Register FX Logical Node
 - 12.3 Report FX Node Status
 - 12.4 Intake FX Transaction Candidate
 - 12.5 Validate FX Transaction Candidate
 - 12.6 Interpret FX Transaction Semantics
 - 12.7 Establish or Update FX Contract State
 - 12.8 Compute FX Cash-Flow Obligations
 - 12.9 Request FX Policy Decision
 - 12.10 Release FX Information to Oversight Participant
 - 12.11 Record FX Audit and Provenance
 - 12.12 Replay or Reconstruct FX Information
 - 12.13 FX Logical Interaction Pattern Summary
- 15. 13. FX Demo Logical Governance Model
 - 13.1 Overview
 - 13.2 FX Logical Ownership of Definitions
 - 13.3 FX Logical Versioning
 - 13.4 FX Logical Compatibility
 - 13.5 FX Logical Change Control
 - 13.6 FX Logical Admission Rules
 - 13.7 FX Logical Policy Constraints
 - 13.8 FX Logical Governance Summary
- 16. 14. FX Demo Logical Traceability Model
 - 14.1 Overview
 - 14.2 Part 1 Concept to FX Logical Profile Element
 - 14.3 Part 2 Logical Element to FX Logical Profile Element
 - 14.4 FX Node Traceability
 - 14.5 FX Endpoint Traceability
 - 14.6 FX Information Structure Traceability
 - 14.7 FX Runtime Plane Traceability
 - 14.8 FX Interaction Traceability
 - 14.9 FX Evidence Traceability

- 14.10 FX Logical Traceability Summary
- 17. 15. Relationship to Implementation Profiles / PSM
 - 15.1 Overview
 - 15.2 FX Logical Elements Prepared for Technology Mapping
 - 15.3 FX Communication Technology Independence
 - 15.4 FX Data Representation Independence
 - 15.5 FX Execution and Deployment Independence
 - 15.6 Boundary Between Part 3 and Part 4
 - 15.7 Relationship to Phase 0 Implementation Profile
- 18. 16. FX Demo Logical Rules and Constraints
 - 16.1 Overview
 - 16.2 FX Logical Nodes Remain Distinct from Runtime Deployments
 - 16.3 FX Logical Endpoints Remain Distinct from Communication Technologies
 - 16.4 FX Logical Data Structures Remain Distinct from Serialisation Formats
 - 16.5 FX Runtime Planes Remain Distinct from Implementation Groupings
 - 16.6 FX Logical Interactions Remain Traceable
 - 16.7 FX Demo Logical Profile Does Not Prescribe Deployment Topology
 - 16.8 FX Demo Logical Profile Does Not Prescribe Communication Pattern Implementation
 - 16.9 FX Demo Logical Profile Does Not Prescribe Governance Tooling
 - 16.10 FX Demo Logical Constraints Summary
- 19. 17. FX Demo Logical Requirements
 - 17.1 Overview
 - 17.2 FX Domain Profile Requirements
 - 17.3 FX Logical Node Requirements
 - 17.4 FX Logical Node Role Requirements
 - 17.5 FX Logical Communication Requirements
 - 17.6 FX Logical Information Requirements
 - 17.7 FX Runtime Plane Requirements
 - 17.8 FX Lifecycle Requirements
 - 17.9 FX Logical Interaction Requirements
 - 17.10 FX Logical Governance Requirements
 - 17.11 FX Logical Traceability Requirements
 - 17.12 Implementation Boundary Requirements

Notes for Editors

This document should be maintained as a set of linked wiki pages rather than a single monolithic page. Each major section should have its own stable URI so it can be referenced from other wiki pages, exported documents, presentations, AI-assisted tools, and semantic models.

Do not rename pages once they have been cited externally unless a redirect or move plan is in place.

From:

<https://wiki.didosolutions.com/> - **Dido Solutions, Inc Wiki**

Permanent link:

<https://wiki.didosolutions.com/fxdemo/03-part/start?rev=1783639726>

Last update: **2026/07/09 16:28**

