

3.4 Coverage of the Original FX Demo Reference Architecture

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The original FX Demo Reference Architecture serves as the source material for the distributed, node-based Logical Architecture defined in this part. That earlier material combined conceptual, logical, FX-specific, implementation, deployment, and [Evidence](#) concerns. This document set separates those concerns across Parts 1 through 5.

This part generalises the reusable Logical Architecture material from the original FX Demo Reference Architecture. It does not carry forward FX-specific transaction details, DDS bindings, IDL structures, QoS profiles, Python implementation patterns, Kubernetes deployment details, Crucible scenarios, scripts, or runtime [Evidence](#).

Table 3-4: Original FX Demo Reference Architecture material normalized into Part 2

Original FX Demo Reference Architecture material	Part 2: Logical treatment
Node relationships and responsibilities	Generalised into the Logical Node Model.
Node Role Framework	Generalised into logical Node Roles and logical responsibility assignments .
Communication Endpoint material	Generalised into logical Communication Endpoints and interaction roles.
Topic Framework	Generalised into logical endpoint and information-flow patterns.
Data Structure Framework	Generalised into logical Data Structure Definitions and logical Data Structure Instances .
Runtime Plane Model	Generalised into logical Runtime Planes and cross-plane relationships.
Control-plane status and command material	Generalised into logical control interactions.
Data-plane publication and subscription material	Generalised into logical information exchange patterns.
Policy and release material	Generalised into logical policy and release interactions.
Audit, provenance, persistence, and replay material	Generalised into logical traceability, audit, provenance, replay, and evidence-support relationships.
FX interaction sequences and use cases	Deferred to Part 3: FX Demo Logical Profile.
DDS, IDL, QoS, Python, and implementation mappings	Deferred to Part 4: Phase 0 Implementation Profile / PSM.
Kubernetes, K3S, Crucible, acceptance checks, and runtime Evidence	Deferred to Part 5: Phase 0 Deployment, Testability, and Evidence Plan.

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

