

17.7 FX Runtime Plane Requirements

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This section identifies the normative requirements established for FX Runtime Plane participation within the FX Demo Logical Profile. The canonical requirement statements are maintained in [Annex D: Requirements, Part 3, Section 17.7](#).

Table 17-6: FX Runtime Plane requirements.

Requirement ID	Statement
P3-REQ-17-7-001	The FX Demo Logical Profile SHALL define participation in the FX Runtime Plane.
P3-REQ-17-7-002	The FX Demo Logical Profile SHALL use the following FX Runtime Planes: • Logical Control Plane • Logical Data Plane • Logical Health and Observability Plane • Logical Policy and Release Plane • Logical Audit and Provenance Plane
P3-REQ-17-7-003	The Logical Control Plane SHALL support operational coordination among FX logical Nodes.
P3-REQ-17-7-004	The Logical Data Plane SHALL carry FX domain, analytical, lifecycle, validation, interpretation, and derived information among FX logical Nodes.
P3-REQ-17-7-005	The Logical Health and Observability Plane SHALL support observation of FX logical Node operational condition and behaviour.
P3-REQ-17-7-006	The Logical Policy and Release Plane SHALL support governed access, disclosure, safeguarding, redaction, transformation, marking, obligations, and release of FX information.
P3-REQ-17-7-007	The Logical Audit and Provenance Plane SHALL support auditability, provenance, lineage, reconstruction, replay, review, accountability, and defensibility for FX logical processing.
P3-REQ-17-7-008	The FX Demo Logical Profile SHALL distinguish FX Runtime Planes from DDS domains, DDS topics, DDS partitions, REST resource groups, RPC service groups, message queues, event streams, Kubernetes namespaces, network segments, security zones, deployment environments, and runtime configuration groupings.
P3-REQ-17-7-009	Cross-plane FX logical relationships SHALL preserve the distinct architectural purpose of each FX Runtime Plane involved.

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