

P4-REQ-21-7-001

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Statement

The Phase 0 Implementation Profile / PSM SHALL realize FX Runtime Plane distinctions through implementation artifacts and conventions.

Source

Part 4, Section 21.7: Runtime Plane Realization Requirements.

Rationale

FX Runtime Planes preserve separation of concerns among operational control, data exchange, health and observability, policy and release, and audit and provenance responsibilities.

Realizing those distinctions through Phase 0 implementation artifacts and conventions ensures that implementation mechanisms remain aligned with the logical architecture rather than collapsing distinct concerns into a single undifferentiated implementation layer.

Applies To

This requirement applies to:

- Phase 0 implementation artifacts;
- DDS Topic mappings;
- QoS profiles;
- logging conventions;
- exception-handling conventions; and
- implementation participant mappings.

Verification

Verification SHALL confirm that the Phase 0 Implementation Profile / PSM realizes applicable FX Runtime Plane distinctions.

Verification activities should include review checks confirming that:

- each applicable Runtime Plane has identifiable implementation realization;

- implementation artifacts identify the Runtime Plane or Runtime Planes they support;
- communication and operational conventions remain aligned with Runtime Plane purpose; and
- distinct Runtime Plane concerns are not collapsed without explicit architectural justification.

Traceability

This requirement establishes the Phase 0 implementation relationship to the Runtime Plane classifications defined by the FX Demo Logical Profile.

Related requirement identifiers:

- [P4-REQ-21-7-002](#)
- [P4-REQ-21-7-003](#)
- [P4-REQ-21-7-004](#)
- [P4-REQ-21-7-005](#)
- [P4-REQ-21-7-006](#)
- [P4-REQ-21-7-008](#)

Related source section:

- [21.7 Runtime Plane Realization Requirements](#)

Status

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