

P4-REQ-21-7-008

[Return to Requirements](#)

Statement

Implementation mechanisms SHALL NOT collapse Runtime Plane distinctions.

Source

Part 4, Section 21.7: Runtime Plane Realization Requirements.

Rationale

Implementation mechanisms such as DDS, shared modules, common logging, repository groupings, or runtime packaging may support multiple architectural concerns. Those mechanisms must not become a substitute for the Runtime Plane distinctions defined by the logical architecture.

This constraint preserves separation of concerns even when Phase 0 uses shared implementation technologies or artifacts.

Applies To

This requirement applies to:

- DDS Topics and QoS profiles;
- shared modules;
- runtime packaging;
- logging and exception-handling mechanisms;
- repository organization; and
- implementation participant mappings.

Verification

Verification SHALL confirm that Phase 0 implementation mechanisms do not collapse Runtime Plane distinctions.

Verification activities should include review checks confirming that:

- distinct Runtime Plane purposes remain identifiable;
- shared mechanisms retain plane-specific mappings where applicable;

- configuration does not erase Runtime Plane classifications;
- runtime packaging does not redefine plane boundaries; and
- review records can distinguish implementation concerns by Runtime Plane.

Traceability

This requirement preserves the Runtime Plane separation defined by the FX Demo Logical Profile throughout the Phase 0 implementation baseline.

Related requirement identifiers:

- [P4-REQ-21-7-001](#)
- [P4-REQ-21-7-007](#)
- [P4-REQ-21-3-009](#)

Related source section:

- [21.7 Runtime Plane Realization Requirements](#)

Status

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