

P2-REQ-16-6-008

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Statement

Cross-plane logical relationships SHALL preserve the distinct architectural purpose of each Logical Runtime Plane involved.

Source

Part 2, Section 16.6: Logical Runtime Plane Requirements.

Rationale

Interactions among Logical Runtime Planes are expected within a distributed architecture, but those interactions must not blur the architectural responsibilities assigned to each Runtime Plane. Preserving distinct Runtime Plane purposes maintains architectural clarity, governance, traceability, and platform independence.

Applies To

This requirement applies to all cross-plane logical relationships.

It applies specifically to:

- Logical Runtime Planes;
- Cross-plane interactions;
- Logical Interaction Patterns; and
- Runtime Plane classifications.

Verification

Verification SHALL confirm that cross-plane logical relationships preserve the architectural purpose of every Runtime Plane involved.

Verification activities should include review checks confirming that:

- each participating Runtime Plane retains its defined purpose;
- cross-plane interactions do not merge Runtime Plane responsibilities;
- Runtime Plane classifications remain explicit; and

- architectural separation is preserved.

Traceability

This requirement supports traceability between cross-plane interactions, Runtime Plane classifications, and Logical Interaction Patterns.

Related requirement identifiers:

- [p2-req-16-6-001](#)
- [p2-req-16-6-009](#)
- [p2-req-16-9-004](#)

Related source section:

- [16.6 Logical Runtime Plane Requirements](#)

Status

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