

P4-REQ-21-7-002

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Statement

The Phase 0 Implementation Profile / PSM SHALL define Control Plane realization for operational coordination, commands, acknowledgments, registration, retry, recovery, and status-request interactions.

Source

Part 4, Section 21.7: Runtime Plane Realization Requirements.

Rationale

The Control Plane carries operational coordination responsibilities distinct from application data exchange and other runtime concerns.

Defining a Phase 0 Control Plane realization establishes how commands, acknowledgments, retries, recovery, registration, and related coordination interactions are implemented without altering their logical purpose.

Applies To

This requirement applies to:

- Control Plane DDS Topics;
- command-producing participants;
- command-consuming participants;
- acknowledgments;
- retry and recovery mechanisms; and
- applicable QoS and logging conventions.

Verification

Verification SHALL confirm that the Phase 0 Implementation Profile / PSM defines a Control Plane realization for the specified operational coordination interactions.

Verification activities should include review checks confirming that:

- command exchanges are represented;
- acknowledgments are represented;
- retry and recovery interactions are represented;
- registration and status-request interactions are supported where applicable; and
- Control Plane behavior remains distinguishable from other Runtime Plane concerns.

Traceability

This requirement establishes the Phase 0 realization of the FX Logical Control Plane.

Related requirement identifiers:

- [P4-REQ-21-7-001](#)
- [P4-REQ-21-7-007](#)
- [P4-REQ-21-7-008](#)

Related source section:

- [21.7 Runtime Plane Realization Requirements](#)

Status

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