

P4-REQ-21-9-001

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Statement

The Phase 0 Implementation Profile / PSM SHALL define a Phase 0 QoS Profile Model.

Source

Part 4, Section 21.9: QoS Profile Requirements.

Rationale

A defined QoS Profile Model establishes the controlled communication behavior used by the selected Phase 0 DDS implementation.

The model makes communication characteristics explicit and allows QoS selections to remain aligned with DDS Topic mappings, Runtime Plane purposes, and the Phase 0 implementation baseline.

Applies To

This requirement applies to:

- Phase 0 QoS profiles;
- DDS Topic mappings;
- Runtime Plane mappings;
- publisher and subscriber configuration; and
- communication compatibility review.

Verification

Verification SHALL confirm that the Phase 0 Implementation Profile / PSM defines a Phase 0 QoS Profile Model.

Verification activities should include review checks confirming that:

- applicable QoS profile families are identified;
- QoS mappings identify their communication purpose;
- applicable DDS Topic relationships are defined; and
- QoS configuration is governed by the Phase 0 implementation baseline.

Traceability

This requirement establishes the Phase 0 communication behavior model used by the remaining QoS requirements.

Related requirement identifiers:

- [P4-REQ-21-9-002](#)
- [P4-REQ-21-9-003](#)
- [P4-REQ-21-9-012](#)
- [P4-REQ-21-9-013](#)

Related source section:

- [21.9 QoS Profile Requirements](#)

Status

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