

P4-REQ-21-3-004

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Statement

The Phase 0 Implementation Profile / PSM SHALL identify QoS profiles as the selected Phase 0 communication behaviour controls.

Source

Part 4, Section 21.3: Technology Selection Requirements.

Rationale

QoS profiles provide controlled communication behaviour for the selected Phase 0 DDS implementation. They allow communication characteristics to be applied consistently to DDS Topic families and applicable Runtime Plane purposes.

Explicit identification of QoS profiles prevents communication behaviour from being treated as an implicit or uncontrolled implementation choice.

Applies To

This requirement applies to:

- Phase 0 QoS profiles;
- DDS Topics;
- implementation participants;
- Runtime Plane mappings; and
- communication configuration.

Verification

Verification SHALL confirm that QoS profiles are identified as the selected Phase 0 communication behaviour controls.

Verification activities should include review checks confirming that:

- applicable DDS Topics are associated with selected QoS profiles;
- QoS profiles are governed as Phase 0 configuration artefacts;

- QoS mappings remain traceable to applicable Runtime Planes and communication endpoints; and
- QoS profiles do not redefine logical communication behaviour.

Traceability

This requirement connects Phase 0 communication behaviour controls to DDS Topic and Runtime Plane implementation mappings.

Related requirement identifiers:

- [P4-REQ-21-3-002](#)
- [P4-REQ-21-3-009](#)

Related source section:

- [21.3 Technology Selection Requirements](#)

Status

Draft

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Last update: **2026/08/06 16:00**

