

P4-REQ-21-5-008

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Statement

Each DDS Topic mapping SHALL identify the QoS profile or QoS profile family used for the topic.

Source

Part 4, Section 21.5: Communication Endpoint Mapping Requirements.

Rationale

QoS profiles define the selected Phase 0 communication behavior associated with DDS Topic exchange.

Identifying the applicable profile makes reliability, durability, history, ordering, liveliness, and compatibility expectations explicit and reviewable.

Applies To

This requirement applies to:

- DDS Topic mappings;
- QoS profiles;
- publishers;
- subscribers; and
- communication configuration.

Verification

Verification SHALL confirm that each DDS Topic mapping identifies its applicable QoS profile or profile family.

Verification activities should include review checks confirming that:

- the applicable QoS profile is identified;
- publishers and subscribers use compatible profiles;
- profile selection agrees with the applicable Runtime Plane; and
- QoS configuration is governed by the Phase 0 baseline.

Traceability

This requirement connects DDS Topic mappings to the Phase 0 QoS Profile Model and applicable Runtime Plane concerns.

Related requirement identifiers:

- [P4-REQ-21-5-004](#)
- [P4-REQ-21-5-007](#)
- [P4-REQ-21-3-004](#)

Related source section:

- [21.5 Communication Endpoint Mapping Requirements](#)

Status

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