

P4-REQ-21-9-008

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Statement

Each QoS profile mapping SHALL identify the expected ordering behavior.

Source

Part 4, Section 21.9: QoS Profile Requirements.

Rationale

Ordering behavior determines whether communication sequence must be preserved when downstream processing or lifecycle progression depends on event order.

Explicitly identifying ordering expectations allows Phase 0 participants to implement compatible sequencing behavior for applicable exchanges.

Applies To

This requirement applies to:

- QoS profile mappings;
- DDS Topic exchanges;
- publishers;
- subscribers; and
- sequence-dependent implementation flows.

Verification

Verification SHALL confirm that each QoS profile mapping identifies its expected ordering behavior.

Verification activities should include review checks confirming that:

- ordering expectations are stated;
- sequence-dependent exchanges preserve required ordering;
- publisher and subscriber behavior is compatible; and
- the selected ordering behavior supports the interaction purpose.

Traceability

This requirement establishes the ordering expectation associated with each Phase 0 QoS profile mapping.

Related requirement identifiers:

- [P4-REQ-21-9-007](#)
- [P4-REQ-21-9-010](#)

Related source section:

- [21.9 QoS Profile Requirements](#)

Status

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