

P4-REQ-21-9-007

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Statement

Each QoS profile mapping SHALL identify the expected history behavior.

Source

Part 4, Section 21.9: QoS Profile Requirements.

Rationale

History behavior determines how much communication history is retained for applicable DDS exchanges.

Explicit history expectations allow Phase 0 to retain sufficient information for downstream consumption, review, troubleshooting, or demonstration without making the behavior implicit.

Applies To

This requirement applies to:

- QoS profile mappings;
- applicable DDS Topics;
- publishers and subscribers; and
- communication history configuration.

Verification

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

Verification activities should include review checks confirming that:

- the selected history expectation is stated;
- retained history supports the intended communication purpose;
- history settings are compatible with participating implementations; and
- configuration is governed by the Phase 0 baseline.

Traceability

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

Related requirement identifiers:

- [P4-REQ-21-9-006](#)
- [P4-REQ-21-9-008](#)

Related source section:

- [21.9 QoS Profile Requirements](#)

Status

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