

P4-REQ-21-5-010

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Statement

Each DDS Topic mapping SHALL preserve traceability to the Part 3 FX logical Communication Endpoint.

Source

Part 4, Section 21.5: Communication Endpoint Mapping Requirements.

Rationale

Each DDS Topic is an implementation realization of a logical communication definition and must remain connected to that authoritative Part 3 source.

Preserving traceability prevents Topic names, data representations, QoS profiles, or runtime configuration from becoming disconnected implementation decisions.

Applies To

This requirement applies to:

- DDS Topic mappings;
- FX logical Communication Endpoints;
- configuration metadata;
- mapping tables; and
- implementation traceability records.

Verification

Verification SHALL confirm that each DDS Topic mapping preserves traceability to its applicable Part 3 FX logical Communication Endpoint.

Verification activities should include review checks confirming that:

- the applicable endpoint is identifiable;
- mapping records connect the Topic to its logical source;
- changes preserve or explicitly update the traceability relationship; and

- reviewers can navigate from DDS Topic to Part 3 endpoint definition.

Traceability

This requirement establishes backward traceability from Phase 0 DDS Topics to their authoritative Part 3 FX logical Communication Endpoints.

Related requirement identifiers:

- [P4-REQ-21-5-001](#)
- [P4-REQ-21-5-002](#)
- [P4-REQ-21-5-009](#)
- [P4-REQ-21-5-011](#)

Related source section:

- [21.5 Communication Endpoint Mapping Requirements](#)

Status

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