

P4-REQ-21-13-004

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Statement

Implementation governance SHALL define implementation compatibility.

Source

Part 4, Section 21.13: Implementation Governance Requirements.

Rationale

Phase 0 implementation artifacts must work together without loss of logical meaning, communication compatibility, generated-type compatibility, QoS compatibility, traceability, or reviewability.

Defined compatibility rules allow incompatible changes to be detected and reviewed before they enter the implementation baseline.

Applies To

This requirement applies to:

- DDS Topic mappings;
- publishers and subscribers;
- IDL structures and generated types;
- QoS profiles;
- configuration artifacts; and
- implementation modules.

Verification

Verification SHALL confirm that implementation governance defines implementation compatibility.

Verification activities should include review checks confirming that:

- communication compatibility is addressed;
- data-representation compatibility is addressed;
- QoS compatibility is addressed;
- version relationships are considered; and

- incompatible artifacts require review before baseline acceptance.

Traceability

This requirement establishes compatibility controls among related Phase 0 implementation artifacts.

Related requirement identifiers:

- [P4-REQ-21-13-003](#)
- [P4-REQ-21-13-005](#)
- [P4-REQ-21-5-009](#)
- [P4-REQ-21-6-009](#)

Related source section:

- [21.13 Implementation Governance Requirements](#)

Status

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