

P4-REQ-21-3-003

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Statement

The Phase 0 Implementation Profile / PSM SHALL identify IDL as the selected Phase 0 data definition mechanism.

Source

Part 4, Section 21.3: Technology Selection Requirements.

Rationale

IDL provides the governed implementation-level mechanism for defining data structures used by the selected Phase 0 DDS implementation.

Identifying IDL as the selected data definition mechanism provides a consistent source for generated implementation types while preserving traceability to the FX logical information structures those IDL definitions realise.

Applies To

This requirement applies to:

- governed Phase 0 IDL files;
- IDL structures;
- generated types;
- DDS Topic data representations; and
- FX logical information-structure mappings.

Verification

Verification SHALL confirm that IDL is identified as the selected Phase 0 data definition mechanism.

Verification activities should include review checks confirming that:

- applicable Phase 0 data structures are defined through governed IDL;
- IDL structures trace to applicable FX logical information structures;
- generated types identify their source IDL structures; and

- IDL remains an implementation representation rather than a redefinition of logical information.

Traceability

This requirement connects FX logical information structures to their selected Phase 0 IDL representations.

Related requirement identifiers:

- [P4-REQ-21-3-002](#)
- [P4-REQ-21-3-005](#)

Related source section:

- [21.3 Technology Selection Requirements](#)

Status

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