

P2-REQ-16-5-012

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Statement

The Logical Architecture / PIM SHALL distinguish logical information structures from serialisation formats, schema languages, database structures, ontology languages, programming-language type systems, wire formats, generated code, and implementation payloads.

Source

Part 2, Section 16.5: Logical Information Requirements.

Rationale

Logical information structures define architectural meaning independently of the technologies used to represent, exchange, or store information. Preserving this distinction allows multiple implementation technologies to realise the same Logical Information Model while maintaining interoperability, traceability, governance, and platform independence.

Applies To

This requirement applies to the Logical Information Model and all profiles that specialise or realise it.

It applies specifically to:

- Logical Data Structure Definitions;
- Logical Data Structure Instances;
- Domain Logical Profiles;
- Implementation Profiles; and
- Technology mappings.

Verification

Verification SHALL confirm that logical information structures remain distinct from implementation representations.

Verification activities should include review checks confirming that:

- logical information structures are defined independently of implementation representations;

- implementation technologies do not redefine logical information structures;
- Implementation Profiles preserve logical meaning during technology mapping; and
- Domain Logical Profiles preserve inherited logical information semantics.

Traceability

This requirement supports traceability between logical information structures and the implementation representations that realise them while preserving platform independence.

Related requirement identifiers:

- [P2-REQ-16-5-003](#)
- [p2-req-16-10-007](#)
- [p2-req-16-10-008](#)

Related source section:

- [16.5 Logical Information Requirements](#)

Status

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