P2-REQ-16-5-003

Return to Requirements

Statement

A Logical Data Structure Definition SHALL describe the structure, meaning, and constraints of an information class at the platform-independent logical level.

Source

Part 2, Section 16.5: Logical Information Requirements.

Rationale

Logical Data Structure Definitions establish the platform-independent description of information used throughout the architecture. Separating logical definitions from implementation schemas preserves conceptual meaning while allowing multiple implementation technologies to realise the same logical information structure.

Applies To

This requirement applies to all Logical Data Structure Definitions within the Logical Architecture / PIM.

It applies specifically to:

- Logical Data Structure Definitions;
- Logical Information Model;
- Domain Logical Profiles; and
- Implementation Profiles.

Verification

Verification SHALL confirm that each Logical Data Structure Definition describes the structure, meaning, and constraints of an information class.

Verification activities should include review checks confirming that:

- information structures are explicitly defined;
- semantic meaning is documented;
- logical constraints are identified; and

- implementation technologies do not redefine logical information structures.

Traceability

This requirement supports traceability between logical information definitions and the implementation representations that realise them.

Related requirement identifiers:

- P2-REQ-16-5-001
- P2-REQ-16-5-004
- P2-REQ-16-5-012

Related source section:

- 16.5 Logical Information Requirements

Status

Draft
