

P2-REQ-16-5-004

[Return to Requirements](#)

Statement

A [Logical Data Structure Instance](#) SHALL represent a populated occurrence of a [Logical Data Structure Definition](#).

Source

Part 2, Section 16.5: Logical Information Requirements.

Rationale

Logical Data Structure Instances represent the actual occurrences of information exchanged, processed, or preserved by the architecture. Distinguishing populated instances from reusable definitions supports validation, traceability, lineage, governance, and consistent implementation mapping.

Applies To

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

It applies specifically to:

- Logical Data Structure Instances;
- Logical Data Structure Definitions;
- Logical Information exchanges; and
- Logical Interaction Patterns.

Verification

Verification SHALL confirm that each Logical Data Structure Instance represents a populated occurrence of a Logical Data Structure Definition.

Verification activities should include review checks confirming that:

- each Logical Data Structure Instance references a Logical Data Structure Definition;
- populated information conforms to its logical definition;
- information instances support logical interactions; and

- implementation representations preserve the logical relationship between definitions and instances.

Traceability

This requirement supports traceability between Logical Data Structure Definitions, Logical Data Structure Instances, and the information exchanged throughout the architecture.

Related requirement identifiers:

- [P2-REQ-16-5-001](#)
- [P2-REQ-16-5-003](#)
- [P2-REQ-16-5-005](#)

Related source section:

- [16.5 Logical Information Requirements](#)

Status

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