

P1-REQ-13-4-008

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Statement

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

Source

Part 1, Section 13.4: Core Conceptual Element Requirements.

Rationale

A Data Structure Instance represents a populated occurrence of a Data Structure Definition. This distinction separates the definition of a class of information from a specific occurrence of information that conforms to that definition.

This requirement supports traceability between definitions and instances and prevents a populated occurrence from redefining the information class.

Applies To

This requirement applies to Data Structure Instance references within the Conceptual Architecture.

It applies specifically to:

- Populated information occurrences
- Definition-to-instance relationships
- Instance interpretation
- Information traceability
- Data Structure Instance descriptions

Verification

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

Verification activities include review checks confirming that:

- Data Structure Instances identify populated occurrences

- Each Data Structure Instance relates to a Data Structure Definition
- Data Structure Instances do not redefine Data Structure Definitions
- Instance references remain distinct from definition references

Traceability

Related source section:

- [13.4 Core Conceptual Element Requirements](#)

Related requirement identifiers:

- [p1-req-13-4-001](#)
- [p1-req-13-4-007](#)
- [p1-req-13-4-012](#)

Status

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