

P1-REQ-13-4-007

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Statement

A [Data Structure Definition](#) SHALL describe the [Structure](#), meaning, and constraints of a class of information.

Source

Part 1, Section 13.4: Core Conceptual Element Requirements.

Rationale

A Data Structure Definition describes the structure, meaning, and constraints that apply to a class of information. It provides the conceptual basis for interpreting information before any particular instance, schema language, message format, database structure, or generated type realizes it.

This requirement supports consistent information interpretation across logical models and implementation mappings.

Applies To

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

It applies specifically to:

- Information structure
- Information meaning
- Information constraints
- Classes of information
- Data Structure Definition traceability

Verification

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

Verification activities include review checks confirming that:

- Data Structure Definitions identify information structure
- Data Structure Definitions identify information meaning
- Data Structure Definitions identify applicable constraints
- Data Structure Definitions remain distinct from populated instances and implementation artifacts

Traceability

Related source section:

- [13.4 Core Conceptual Element Requirements](#)

Related requirement identifiers:

- [P1-REQ-13-4-001](#)
- [P1-REQ-13-4-008](#)
- [P1-REQ-13-4-012](#)

Status

Draft

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