

16.5 Logical Information Requirements

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1. The Logical Architecture / PIM SHALL define [Logical Data Structure Definition](#) and [Logical Data Structure Instance](#).
2. The Logical Architecture / PIM SHALL define logical information categories, including [Logical Message](#), [Logical Event](#), [Logical Command](#), Logical Acknowledgement, [Logical Assertion](#), [Logical Record](#), and [Logical Information Lineage](#).
3. A [Logical Data Structure Definition](#) SHALL describe the structure, meaning, and constraints of an information class at the platform-independent logical level.
4. A [Logical Data Structure Instance](#) SHALL represent a populated occurrence of a [Logical Data Structure Definition](#).
5. A [Logical Message](#) SHALL represent a [Logical Data Structure Instance](#) exchanged through a [Logical Communication Endpoint](#).
6. A [Logical Event](#) SHALL represent a [Logical Data Structure Instance](#) reporting an occurrence, observation, state change, decision, or result.
7. A [Logical Command](#) SHALL represent a [Logical Data Structure Instance](#) expressing an intended action.
8. A Logical Acknowledgement SHALL represent a [Logical Data Structure Instance](#) reporting receipt, acceptance, rejection, completion, failure, or outcome.
9. A [Logical Assertion](#) SHALL represent a [Logical Data Structure Instance](#) stating a conclusion, derived fact, validation result, interpretation result, analytical result, policy decision, or other claim.
10. A [Logical Record](#) SHALL represent a [Logical Data Structure Instance](#) preserved for continuity, review, audit, provenance, replay, reconstruction, or [Evidence](#).
11. [Logical Information Lineage](#) SHALL identify relationship history among [Logical Data Structure Instances](#) across exchange, transformation, validation, interpretation, assertion, persistence, replay, release, and [Evidence](#).
12. 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.

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Last update: 2026/07/03 17:19

