

16.5 Logical Information Requirements

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This section identifies the normative requirements established for the Logical Information Model. The canonical requirement statements are maintained in [Annex C: Requirements, Part 2, Section 16.5](#).

Table 16-4: Logical Information requirements.

Requirement ID	Statement
P2-REQ-16-5-001	The Logical Architecture / PIM SHALL define Logical Data Structure Definition and Logical Data Structure Instance .
P2-REQ-16-5-002	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 .
P2-REQ-16-5-003	A Logical Data Structure Definition SHALL describe the structure, meaning, and constraints of an information class at the platform-independent logical level.
P2-REQ-16-5-004	A Logical Data Structure Instance SHALL represent a populated occurrence of a Logical Data Structure Definition .
P2-REQ-16-5-005	A Logical Message SHALL represent a Logical Data Structure Instance exchanged through a Logical Communication Endpoint .
P2-REQ-16-5-006	A Logical Event SHALL represent a Logical Data Structure Instance reporting an occurrence, observation, state change, decision, or result.
P2-REQ-16-5-007	A Logical Command SHALL represent a Logical Data Structure Instance expressing an intended action.
P2-REQ-16-5-008	A Logical Acknowledgement SHALL represent a Logical Data Structure Instance reporting receipt, acceptance, rejection, completion, failure, or outcome.
P2-REQ-16-5-009	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.
P2-REQ-16-5-010	A Logical Record SHALL represent a Logical Data Structure Instance preserved for continuity, review, audit, provenance, replay, reconstruction, or Evidence .
P2-REQ-16-5-011	Logical Information Lineage SHALL identify relationship history among Logical Data Structure Instances across exchange, transformation, validation, interpretation, assertion, persistence, replay, release, and Evidence .
P2-REQ-16-5-012	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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