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.
