

6.4.3 Data, Structure, Semantics, and Interpretation

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The proposed [Reference Architecture](#) separates and coordinates [Data](#), [Structure](#), [Semantics](#), and [Interpretation](#). It also governs the definition, versioning, lifecycle, and application of structural, semantic, and interpretive [Artifacts](#) independently of particular implementation systems.

Requirements

Requirement	Statement
SIP-049 — Architectural Concern and Lifecycle Description	The Submission SHALL describe the separation and coordination of Data , Structure , Semantics , and Interpretation and the independent definition, versioning, and lifecycle Governance of structural, semantic, and interpretive Artifacts .
SIP-050 — Implementation-Independent Interpretive Logic	The proposed Reference Architecture SHALL define architectural mechanisms that separate interpretive logic from implementation environments.

Required Coverage

The description required by SIP-049 includes the architectural information governed by the following requirements:

Requirement	Required Architectural Information
SIP-004 — Separation of Architectural Concerns	Data, Structure, Semantics, and Interpretation as separable but coordinated architectural concerns
SIP-010 — Structural Artifact Lifecycle Governance	Lifecycle controls for structural Artifacts
SIP-011 — Semantic Artifact Lifecycle Governance	Lifecycle controls for semantic Artifacts
SIP-012 — Interpretive Artifact Lifecycle Governance	Lifecycle controls for interpretive Artifacts
SIP-013 — Reproducible Interpretation	Reproduction of an Interpretation using identified, version-controlled conditions
SIP-023 — Governance Evolution and Operational Execution	Separation of Governance Artifact evolution from execution of the operational processing flow

Notes for Editors

The links to SIP-049 and SIP-050 provide temporary access to their individual Annex C requirement pages while those records are being created and reviewed.

After those records are complete, replace each locally maintained Statement with a transclusion of its authoritative Statement.

SIP-049 governs the required description. The requirements listed under Required Coverage govern the underlying architectural capabilities and constraints.

SIP-010 through SIP-012 govern the lifecycles of structural, semantic, and interpretive Artifacts. Their detailed requirement records should address formal definition, identification, versioning, authority, status, applicability, and change control.

SIP-013 already requires reproducible Interpretation under identified, version-controlled conditions. It is not repeated or renumbered in this section.

SIP-050 adds the distinct requirement that interpretive logic remain architecturally separate from the implementation environments that execute or otherwise apply it.

The Required Coverage table provides a nonnormative summary. The corresponding Annex C requirement records remain authoritative.

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Last update: 2026/09/14 18:42

