

6.4.6 Implementation Conformance Model

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The conformance model defines the conditions under which an implementation conforms to the proposed [Reference Architecture](#). It identifies objectively inspectable conformance points and distinguishes mandatory architectural elements from optional architectural elements.

Requirements

Requirement	Statement
SIP-054 — Implementation Conformance Model	The Submission SHALL define a Conformance model specifying the conditions under which an implementation conforms to the proposed Reference Architecture .
SIP-055 — Architectural Element Conformance Classification	The Conformance model SHALL classify each conformance-relevant architectural element as mandatory, optional, or conditional and SHALL define the conditions applicable to each conditional element.

Required Coverage

The conformance model includes the conformance information governed by the following requirements:

Requirement	Required Conformance Information
SIP-021 — Independent Conformance Requirements	Conformance requirements defined independently of Interface interaction definitions
SIP-022 — Technology-Independent Conformance Points	Objectively inspectable conformance points independent of implementation technology
SIP-029 — Implementation and Deployment Independence	Independence from specific implementation technologies, deployment topologies, and System architectures
SIP-030 — Tool and Technology Neutrality	Independence from specific modeling languages, transport frameworks, and vendor tooling environments
SIP-041 — Modeling and Tooling Conformance Neutrality	Implementation conformance independent of modeling languages, model-interchange formats, and vendor tooling environments
SIP-048 — Platform Independent Model Formal Precision	Formal precision sufficient to support independent implementation and conformance assessment

Notes for Editors

The links to SIP-054 and SIP-055 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-054 requires a conformance model and establishes its purpose. SIP-055 requires the conformance model to distinguish mandatory, optional, and conditional architectural elements.

The requirements listed under Required Coverage govern the conformance model's independence, inspectability, neutrality, and formal precision.

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 18:52

