

SIP-054 — Implementation Conformance Model

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Statement

The Submission SHALL define a [Conformance](#) model specifying the conditions under which an implementation conforms to the proposed [Reference Architecture](#).

Rationale

A Reference Architecture requires explicit Conformance conditions so implementers, evaluators, and acquiring organizations can determine whether an implementation realizes the required architectural responsibilities.

Without a defined Conformance model, architectural guidance may be interpreted inconsistently, and claims of Conformance may depend on subjective judgment. The model establishes the requirements, classifications, conformance points, evidence, and evaluation rules used to assess an implementation.

Evaluation Criteria

A conforming Submission demonstrates that:

1. The conditions for claiming implementation Conformance are defined
2. Conformance-relevant architectural elements are identified
3. Applicable normative requirements are identified
4. Mandatory, optional, and conditional elements can be distinguished
5. Objectively inspectable conformance points are defined
6. Required conformance evidence is identified
7. Evaluation rules for determining satisfaction are specified
8. Partial or scoped Conformance, if permitted, is explicitly defined
9. Nonconformance conditions can be identified
10. Conformance can be assessed independently of a particular implementation technology
11. A Conformance claim can identify the specification version and applicable profile or scope

Required Coverage

The Conformance model includes the information governed by:

1. [SIP-021 — Independent Conformance Requirements](#)

2. [SIP-022 — Technology-Independent Conformance Points](#)
3. [SIP-029 — Implementation and Deployment Independence](#)
4. [SIP-030 — Tool and Technology Neutrality](#)
5. [SIP-041 — Modeling and Tooling Conformance Neutrality](#)
6. [SIP-048 — Platform Independent Model Formal Precision](#)
7. [SIP-055 — Architectural Element Conformance Classification](#)

Referenced By

- [5.2.4 Conformance: Inspectability and Testability](#)
- [6.4.6 Implementation Conformance Model](#)
- [GPR-023 — Inspectable and Testable Conformance](#)

Notes for Editors

This requirement establishes the overall implementation Conformance model. The requirements listed under Required Coverage define specific properties and contents of that model.

Use the following syntax to include the authoritative Statement on another wiki page:

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{{section>public:00-sip-ra:99-annexes:annex-c-requirements:sip-054-implementation-conformance-model#Statement&noheader&nofooter&noeditbtn}}
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