

6.4.2 Platform-Independent Model Definition

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The [Platform Independent Model \(PIM\)](#) formalizes the proposed [Reference Architecture](#) by defining its architectural constructs, relationships, constraints, and [Governance](#) abstractions using abstract syntax and formally defined [Semantics](#).

Requirements

Requirement	Statement
SIP-046 — Platform Independent Model Abstract Syntax	The Platform Independent Model (PIM) SHALL define an abstract syntax for its architectural constructs, relationships, and constraints.
SIP-047 — Platform Independent Model Formal Semantics	The Platform Independent Model (PIM) SHALL define the formal Semantics of its architectural constructs, relationships, and constraints independently of any specific implementation technology.
SIP-048 — Platform Independent Model Formal Precision	The Platform Independent Model (PIM) SHALL be defined with sufficient formal precision to support independent implementation and conformance assessment.

Required Coverage

The Platform Independent Model definition includes the architectural information governed by the following requirements:

Requirement	Required Model Information
SIP-002 — Formal Platform Independent Model	A formal Platform Independent Model of the proposed Reference Architecture
SIP-003 — Reference Architecture Constituents	Architectural elements, roles, relationships, and interaction constructs
SIP-022 — Technology-Independent Conformance Points	Conformance points supporting inspection and verification independently of implementation technology
SIP-039 — Platform-Independent Modeling	Platform-independent architectural modeling without requiring a specific modeling language or notation
SIP-040 — Representation-Independent Architectural Constructs	Architectural meaning independent of a particular modeling syntax or diagrammatic representation

Notes for Editors

The requirement identifiers and short titles link to the authoritative requirement records in Annex C.

The Statements for SIP-046 through SIP-048 are transcluded from their corresponding Annex C requirement pages and are not independently maintained copies.

Make changes to a Statement on its Annex C requirement page.

SIP-002 already requires the Submission to include a formal PIM. It is not repeated or renumbered in this section.

SIP-046 defines the required abstract syntax. SIP-047 defines the required formal Semantics. SIP-048 establishes the degree of precision needed to support independent implementation and conformance assessment.

The Required Coverage table provides a nonnormative summary of the model information governed by the referenced requirements. Their corresponding Annex C records remain authoritative.

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