

SIP-050 — Implementation-Independent Interpretive Logic

[Go to Annex C: Requirements](#)

Statement

The proposed [Reference Architecture](#) SHALL define architectural mechanisms that separate interpretive logic from implementation environments.

Rationale

When interpretive logic is embedded exclusively within application code, runtime platforms, or proprietary processing systems, the rules used to produce an outcome become difficult to identify, govern, reproduce, and transfer.

Architectural separation allows interpretive logic to be defined, identified, versioned, governed, and associated with applicable Data, Structure, and Semantics independently of the environment used to execute or apply it.

This separation supports consistent Interpretation across implementations and preserves the ability to reproduce an interpretive outcome under identified version conditions.

Evaluation Criteria

A conforming Submission demonstrates that:

1. Interpretive logic is represented as an identifiable architectural concern
2. Interpretive logic can be defined independently of application code or a particular runtime environment
3. Interpretive logic can be assigned a stable identity and version
4. Applicable structural and semantic dependencies can be identified
5. Governance authority and lifecycle status can be associated with interpretive logic
6. More than one implementation environment can execute or apply equivalent interpretive logic
7. Implementation-specific bindings remain distinguishable from the implementation-independent definition
8. Changes to an implementation environment do not silently alter governed interpretive logic
9. The version of the interpretive logic used to produce an outcome can be determined
10. Provenance and traceability between interpretive logic and resulting outcomes are preserved

Referenced By

- [6.4.3 Data, Structure, Semantics, and Interpretation](#)

Notes for Editors

This requirement does not require interpretive logic to be directly executable in its implementation-independent form. A platform-specific realization may translate, bind, compile, or otherwise implement that logic, provided the relationship to the governed definition remains identifiable and traceable.

SIP-013 governs reproducible Interpretation under identified, version-controlled conditions. SIP-050 provides the architectural separation needed to preserve and reuse the applicable interpretive logic independently of a particular implementation environment.

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-050-implementation-independent-interpretive-logic#Statement&noheader&nofooter&noeditbtn}}
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