

[DTE6] Structured Information Processing Reference Architecture (SIP-RA)

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Reference

Dido Solutions, Inc. and Jackrabbit Consulting, Inc. *Structured Information Processing Reference Architecture (SIP-RA)*.

Bibliographic Information

Attribute	Value
Reference Identifier	[DTE6]
Title	Structured Information Processing Reference Architecture (SIP-RA)
Filename	Record the authoritative filename.
Artifact Type	Reference Architecture
Version	Record the authoritative version.
Document Date	Record the authoritative document date.
Preparing Organisations	Dido Solutions, Inc. and Jackrabbit Consulting, Inc.
File Format	Record the authoritative file format.
Status	Record the authoritative status.
URI	Record the canonical SIP-RA URI.

Scope

The Structured Information Processing Reference Architecture (SIP-RA) defines an implementation-independent architecture for the governed processing of structured information.

SIP-RA establishes architectural concepts, terminology, models, relationships, requirements, conformance criteria, and traceability practices applicable to systems that process structured information.

DIDO-TE uses SIP-RA as an architectural foundation for the design, implementation, operation, validation, and conformance of the DIDO Test Environment.

Architectural Content

SIP-RA addresses architectural subject areas associated with:

- Structured information processing
- Reference Architecture

- Conceptual, logical, and physical models
- Architectural components and relationships
- Information-processing pipelines
- Data and metadata
- Processing lifecycle governance
- Traceability
- Validation
- Conformance
- Conformance criteria
- Conformance points
- Implementation profiles
- Evidence
- Auditability
- Reproducibility
- Interoperability
- Security
- Governance

DIDO-TE applies the SIP-RA concepts relevant to a distributed Test Environment and specialises them where DIDO-TE requires test-specific architectural meaning.

Relevance to DIDO-TE

This reference provides part of the architectural foundation for DIDO-TE.

DIDO-TE uses [DTE6] to:

- Establish architectural concepts and terminology
- Preserve separation among conceptual, logical, and physical models
- Structure information-processing responsibilities
- Establish traceability between requirements and architectural elements
- Define inspectable conformance points
- Establish conformance criteria
- Support validation and verification
- Govern the production and preservation of Evidence
- Support reproducible Test Environments and Test Executions
- Distinguish architectural requirements from implementation decisions

DIDO-TE requirements and architecture content identify any specialisation or extension of a SIP-RA concept.

Citation Use

DIDO-TE pages cite this reference using:

[\[DTE6\]](#)

A citation identifies the applicable SIP-RA section, clause, requirement, figure, table, model element, or other precise source location.

For example:

```
[[dido:03-dido-te:99-annexes:annex-b-references:dte-006|[DTE6]]], Section 6.4.6, "Implementation Conformance Model."
```

When a DIDO-TE requirement derives from a SIP-RA requirement, the citation identifies the applicable source requirement and its location.

When DIDO-TE specialises or extends a SIP-RA concept, the citation identifies the original concept and records the resulting DIDO-TE specialisation or extension.

Source Treatment

DIDO-TE preserves the meaning of architectural concepts derived from [DTE6].

The derivation process:

- Identifies the precise SIP-RA source location
- Preserves the original architectural meaning
- Identifies the applicable DIDO-TE context
- Records any terminology normalisation
- Records any DIDO-TE specialisation or extension
- Provides a rationale for each specialisation or extension
- Maintains traceability between the source concept and the resulting DIDO-TE content
- Distinguishes source requirements from derived DIDO-TE requirements
- Distinguishes architectural constraints from implementation decisions

A DIDO-TE specialisation narrows or contextualises a SIP-RA concept for the DIDO Test Environment. It does not alter the historical SIP-RA source.

Conformance Content

SIP-RA supplies architectural concepts associated with conformance, including:

- [Conformance Model](#)
- [Conformance Criterion](#)
- Architectural conformance
- Conformance points
- Implementation conformance
- Requirements traceability

DIDO-TE applies these concepts to identify inspectable architectural elements, required behaviours, interfaces, records, Evidence, and verification results.

A DIDO-TE conformance statement identifies the applicable SIP-RA source when SIP-RA establishes

the governing architectural concept or requirement.

Relationship to Other References

[DTE6] supplies architectural concepts that complement the DIDO-TE-specific source material recorded in other references.

See:

- [\[DTE1\] U.S. Patent Application US20220237111A1](#)
- [\[DTE2\] Non-Traditional BAA Submission](#)
- [\[DTE3\] Draft BAA White Paper](#)
- [\[DTE4\] DIDO Reference Data Model](#)
- [\[DTE5\] DIDO-TE Requirements Register](#)

[DTE1] records patented subject matter. [DTE2] and [DTE3] describe proposed applications of DIDO-TE. [DTE4] supplies a historical Conceptual Model. [DTE5] records source requirements. [DTE6] supplies the broader architectural framework within which DIDO-TE requirements and architecture content are organised.

Cite the reference that directly supports the applicable statement, architectural concept, or requirement derivation.

Status

Record the authoritative publication status, version, and date of [DTE6] in the Bibliographic Information table.

A later SIP-RA revision does not automatically supersede the revision cited by existing DIDO-TE requirements, architecture content, Evidence, or published documents.

Record the relationship between revisions before changing the authoritative source used by DIDO-TE.

Notes for Editors

Preserve `[DTE6]` and this page namespace as stable citation identifiers.

Preserve the authoritative SIP-RA source file as the canonical source artifact.

Record the authoritative filename, version, date, file format, publication status, and canonical URI when this metadata becomes available.

Identify the precise SIP-RA section, clause, requirement, figure, table, model element, or other source location when deriving DIDO-TE content from [DTE6].

Do not cite [DTE6] without a precise source location when a more precise citation is available.

Preserve the original SIP-RA meaning in the source record. Record DIDO-TE terminology and specializations separately.

Do not classify a change to architectural meaning, scope, responsibility, relationship, constraint, conformance criterion, or conformance point as an editorial correction.

Document each DIDO-TE specialization or extension with its source, resulting expression, and rationale.

Do not introduce implementation-specific products, technologies, datatypes, encodings, or deployment decisions into a conceptual requirement derived from SIP-RA.

Preserve the distinction among conceptual, logical, and physical models.

Record the revision, provenance, and supersession relationship before replacing [DTE6] with another SIP-RA revision.

Preserve [DTE6] when existing requirements, architecture content, Evidence, reports, or externally published documents cite it.

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