

ENV-004c — Control Test Inputs

[Go to ENV-004 — Provide Deterministic Test Environment](#)

Statement

The [DIDO-TE](#) SHALL control each [Test Input](#) in accordance with the applicable [Test Definition](#).

Derived From

- [ENV-004 — Provide Deterministic Test Environment](#)
- [\[DTE5\] DIDO-TE Requirements Register](#), source requirement identifier and obligation to be assigned
- [\[DTE6\] Structured Information Processing Reference Architecture \(SIP-RA\)](#)
- [\[DTE7\] Federated Data Interpretation Systems Reference Architecture \(FDIS-RA\)](#)

Rationale

Test Inputs stimulate or otherwise influence the behaviour of a [Test Object](#), participating [Nodes](#), and the resulting [Test Results](#).

Control of Test Inputs extends beyond their content. Input identity, version, format, source, order, timing, quantity, integrity, delivery method, and applicable preconditions also affect Test Execution.

Uncontrolled, altered, duplicated, omitted, reordered, delayed, or additional Test Inputs introduce variation and weaken the interpretation, [Reproducibility](#), and [Comparability](#) of Test Results.

Recording the Test Inputs actually supplied permits comparison with the applicable Test Definition and supports investigation of deviations.

Applies To

- [Test Environment](#)
- [Test Definition](#)
- [Test Execution](#)
- [Test Input](#)
- [Test Object](#)
- [Node](#)
- [Test Resource](#)
- [Configuration](#)
- [Constraint](#)
- [Evidence](#)

Verification

Verification confirms that:

- The applicable Test Definition identifies each required Test Input.
- Each required Test Input has a unique identity and controlled version.
- The controlled descriptive information specifies the required content, format, source, order, timing, quantity, integrity, delivery method, and preconditions for each Test Input, where applicable.
- The DIDO-TE verifies the identity, version, content, format, and integrity of each Test Input before use.
- The DIDO-TE supplies each Test Input to the specified recipient.
- The DIDO-TE supplies each Test Input in the specified order and under the specified timing and delivery conditions.
- The DIDO-TE detects an omitted, additional, duplicated, altered, corrupted, reordered, misdirected, premature, or delayed Test Input.
- The DIDO-TE records each supplied Test Input and its actual content identity, source, recipient, order, time, delivery status, and integrity status as [Evidence](#).
- The DIDO-TE maintains [Traceability](#) among each Test Input, its controlled source, Test Definition, recipient, delivery record, Test Execution, and Test Results.
- An omitted, additional, duplicated, altered, corrupted, reordered, misdirected, incorrectly timed, uncontrolled, or untraceable Test Input constitutes nonconformance with this requirement.

Verification includes:

- Inspection of the Test Inputs specified by the Test Definition
- Inspection of Test Input identities, versions, content, formats, sources, and integrity information
- Observation of Test Input preparation and delivery
- Comparison of the required and supplied Test Inputs
- Inspection of Test Input order, timing, quantity, recipients, and delivery conditions
- Testing with an omitted, additional, duplicated, altered, corrupted, reordered, misdirected, premature, or delayed Test Input
- Confirmation that the DIDO-TE detects and records each deviation
- Inspection of Test Input and delivery Evidence
- Inspection of Traceability records connecting each Test Input to its source, Test Definition, recipient, Test Execution, and Test Results
- Confirmation that an incorrect, uncontrolled, or untraceable Test Input produces a nonconformance result

Referenced By

Plugin Backlinks: Nothing was found.

Related Architecture Sections

- Add links to the architecture sections governing Test Input definition, preparation, integrity, sequencing, delivery, observation, Evidence, and Traceability.

Delivery Phase

Assign the applicable delivery phase.

Requirement Status

Draft

Statement Reference

Use the following syntax to reference this requirement's Statement section from another DokuWiki page:

```
{{section>dido:03-dido-te:99-annexes:annex-c-requirements:02-test-environment-requirements:env-004-provide-deterministic-test-environment:env-004c-control-test-inputs#Statement&noheader&nofooter&noeditbtn}}}
```

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