

ENV-003I — Prevent Execution from Invalid Starting State

[Go to ENV-003 — Establish Controlled Starting State](#)

Statement

The [DIDO-TE](#) SHALL prevent [Test Execution](#) when validation identifies an invalid controlled starting state.

Derived From

- [ENV-003 — Establish Controlled Starting State](#)
- [\[DTE5\] 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

An invalid controlled starting state indicates one or more required conditions for [Test Execution](#) remain unsatisfied.

Permitting execution from an invalid state introduces uncontrolled variation, undermines the resulting [Test Result](#), and weakens [Reproducibility](#), [Comparability](#), and [Traceability](#).

Preventing Test Execution creates an enforceable admission control between starting-state validation and execution. Recording the prevention decision and validation failures provides [Evidence](#) of the rejected execution attempt.

Applies To

- [Test Environment](#)
- [Test Definition](#)
- [Test Execution](#)
- [Baseline](#)
- [Configuration](#)
- [Constraint](#)
- [Evidence](#)

Verification

Verification confirms that:

- The DIDO-TE evaluates the controlled-starting-state validation result before admitting Test Execution.
- The DIDO-TE admits Test Execution only when validation produces a valid result.
- The DIDO-TE prevents Test Execution when validation produces an invalid, incomplete, indeterminate, missing, or expired result.
- Prevention stops the applicable Test Procedure and participating Nodes or Test Objects from initiating the Test Execution.
- The DIDO-TE identifies each validation failure responsible for preventing Test Execution.
- The DIDO-TE records the rejected execution attempt, validation result, identified failures, prevention action, time, and responsible actor or process as [Evidence](#).
- The DIDO-TE maintains [Traceability](#) among the rejected execution attempt, invalid starting state, validation result, identified failures, prevention action, Test Environment, and Test Definition.
- The DIDO-TE requires successful revalidation after correction of the starting state and before admission of a subsequent Test Execution.
- Execution from an invalid, incomplete, indeterminate, unvalidated, or expired starting state constitutes nonconformance with this requirement.

Verification includes:

- Inspection of the Test Execution admission control
- Observation of admission following a valid starting-state result
- A negative assessment using an invalid starting state
- A negative assessment using an incomplete, indeterminate, missing, or expired validation result
- Confirmation that the DIDO-TE prevents Test Execution for each negative assessment
- Confirmation that the applicable Test Procedure and participating Nodes or Test Objects do not initiate the prevented Test Execution
- Inspection of the recorded validation failures and prevention Evidence
- Inspection of Traceability records connecting the rejected execution attempt to the invalid state, validation result, prevention action, Test Environment, and Test Definition
- Correction of the starting state followed by revalidation
- Confirmation that the DIDO-TE admits Test Execution only after successful revalidation

Referenced By

Plugin Backlinks: Nothing was found.

Related Architecture Sections

- Add links to the architecture sections governing Test Execution admission, starting-state validation, failure handling, Evidence recording, correction, and revalidation.

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-003-establish-controlled-starting-state:env-003I-prevent-execution-from-invalid-starting-state#Statement&noheader&nofooter&noeditbtn}}
```

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