

ENV-002 — Configure Test Environment

[Go to C.2 Test Environment Requirements](#)

Statement

The [DIDO-TE](#) SHALL configure each [Test Environment](#) before [Test Execution](#).

Derived From

- [\[DTE5\] 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

A controlled [Configuration](#) establishes the actual operating state of a [Test Environment](#) before [Test Execution](#).

Configuring the Test Environment according to its controlled descriptive information establishes consistency between the defined environment and its instantiated state. Recording the resulting Configuration preserves the information required to reproduce the environment, compare separate Test Executions, identify environmental differences, and interpret the resulting [Test Results](#).

Validation before Test Execution prevents an incorrectly configured Test Environment from producing Test Results presented as originating from the specified Test Environment and [Baseline](#).

Applies To

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

Contents

Verification

Verification confirms that:

- The DIDO-TE configures each Test Environment before Test Execution.
- The configured Test Environment satisfies ENV-002a through ENV-002l.
- The DIDO-TE maintains [Traceability](#) among the controlled Test Environment description, resulting Configuration, applicable Baseline, and Test Execution.
- The DIDO-TE prevents Test Execution when the resulting Configuration fails validation.
- The DIDO-TE records Configuration validation failures as [Evidence](#).

Verification includes:

- Inspection of the controlled Test Environment description
- Inspection of the resulting Test Environment Configuration
- Inspection of the applicable Configuration and Baseline records
- Inspection of Traceability records
- Inspection of the verification results for ENV-002a through ENV-002l
- Execution of Configuration validation before Test Execution
- A negative assessment using a Configuration that differs from the controlled Test Environment description
- Confirmation that the DIDO-TE prevents Test Execution when Configuration validation fails
- Inspection of the Evidence recording the Configuration validation failure

Referenced By

- [ENV-002a — Apply Controlled Descriptive Information](#)
- [ENV-002b — Instantiate Included Test Objects](#)
- [ENV-002c — Instantiate Included Nodes](#)
- [ENV-002d — Provision Required Test Resources](#)
- [ENV-002e — Apply Configuration Values](#)
- [ENV-002f — Establish Communication Relationships](#)
- [ENV-002g — Enforce Environmental Constraints](#)
- [ENV-002h — Enforce Security Constraints](#)
- [ENV-002i — Enforce Deployment Constraints](#)
- [ENV-002j — Apply Version and Baseline Information](#)
- [ENV-002k — Record Test Environment Configuration](#)
- [ENV-002l — Validate Test Environment Configuration](#)

Related Architecture Sections

- Add links to the architecture sections governing Test Environment Configuration, provisioning, validation, and Baseline control.

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-002-configure-test-environment:start#Statement&noheader&nofooter&noeditbtn}}}
```

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