

ENV-002h — Enforce Security Constraints

[Go to ENV-002 — Configure Test Environment](#)

Statement

The [DIDO-TE](#) SHALL enforce each security [Constraint](#) applicable to a [Test Environment](#) before and during [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

Security [Constraints](#) establish the protections governing access to and interaction with a [Test Environment](#) and its constituent elements.

Enforcing these Constraints protects the confidentiality, integrity, authenticity, availability, and permitted use of [Test Objects](#), [Nodes](#), [Test Resources](#), communications, data, configurations, and [Evidence](#).

Maintaining the specified security conditions prevents unauthorised access, prohibited communication, uncontrolled modification, and other security violations from affecting [Test Execution](#) or the resulting [Test Results](#).

Applies To

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

Verification

Verification confirms that:

- The DIDO-TE identifies every security Constraint applicable to the Test Environment.
- The DIDO-TE enforces each applicable security Constraint before and during Test Execution.
- The enforced Constraints govern identity, authentication, authorisation, access, isolation, communication, data protection, integrity, and audit recording, when applicable.
- The DIDO-TE excludes access, operations, and communications prohibited by the applicable security Constraints.
- The DIDO-TE records security-relevant events and violations as Evidence.
- The DIDO-TE maintains [Traceability](#) among each security Constraint, its enforcement mechanism, and the applicable Test Execution.
- The DIDO-TE prevents Test Execution when a required security Constraint remains unsatisfied before execution.
- The DIDO-TE identifies a security Constraint violation occurring during Test Execution and records its relationship to the affected Test Execution and Test Results.
- A missing, unenforced, violated, or untraceable security Constraint constitutes nonconformance with this requirement.

Verification includes:

- Inspection of the security Constraints applicable to the Test Environment
- Inspection of the mechanisms enforcing each security Constraint
- Inspection of identity, authentication, authorisation, access-control, isolation, communication-protection, integrity, and audit records, when applicable
- Testing of permitted access, operations, and communications
- Testing for the exclusion of prohibited access, operations, and communications
- Inspection of security Evidence and Traceability records
- A negative assessment using an unsatisfied security Constraint before Test Execution
- Confirmation that the DIDO-TE prevents Test Execution when the Constraint remains unsatisfied
- A negative assessment introducing a security Constraint violation during Test Execution
- Confirmation that the DIDO-TE identifies and records the violation and its relationship to the affected Test Execution and Test Results

Referenced By

Plugin Backlinks: Nothing was found.

Related Architecture Sections

- Add links to the architecture sections governing security Constraints, access control, communications protection, audit recording, and security-event handling.

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:env-002h-enforce-security-constraints#Statement&noheader&nofooter&noeditbtn}}
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