

ENV-003i — Remove or Isolate Residual State

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

Statement

Before each [Test Execution](#), the [DIDO-TE](#) SHALL remove or isolate each residual state element not included in the required 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

Residual state includes data, processes, messages, files, caches, temporary resources, communication relationships, credentials, locks, subscriptions, transactions, and other state remaining from a prior activity or [Test Execution](#).

Residual state may alter the behaviour of a [Node](#), [Test Object](#), or supporting [Test Resource](#).

Removing or isolating residual state prevents a prior Test Execution or unrelated activity from influencing a later [Test Result](#). This separation supports [Reproducibility](#) and [Comparability](#).

Applies To

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

Verification

Verification confirms that:

- The DIDO-TE identifies residual state before Test Execution.
- The DIDO-TE determines whether each identified residual state element belongs to the required controlled starting state.
- The DIDO-TE removes or isolates each residual state element not included in the required controlled starting state.
- Isolation prevents the residual state element from influencing the applicable Test Execution.
- Removal or isolation addresses residual data, processes, messages, files, caches, resources, communication relationships, credentials, locks, subscriptions, and transactions, where applicable.
- The resulting Test Environment contains only state permitted by the controlled descriptive information.
- The DIDO-TE records each detected residual state element and the action taken.
- The DIDO-TE maintains [Traceability](#) among each residual state element, its originating activity when known, the removal or isolation action, and the applicable Test Execution.
- Unidentified, unremoved, ineffectively isolated, prohibited, or untraceable residual state constitutes nonconformance with this requirement.

Verification includes:

- Inspection of the Test Environment following a prior Test Execution
- Inspection for residual data, processes, messages, files, caches, resources, communication relationships, credentials, locks, subscriptions, and transactions
- Observation of residual-state removal or isolation
- Confirmation that isolated residual state cannot influence the applicable Test Execution
- Comparison of the resulting Test Environment state with the required controlled starting state
- Inspection of residual-state detection and disposition records
- Inspection of Traceability records connecting each residual state element to its origin, disposition, and applicable Test Execution
- Repetition of a Test Execution following a prior Test Execution
- A negative assessment containing prohibited or ineffectively isolated residual state
- Confirmation that the negative assessment produces a nonconformance result

Referenced By

Plugin Backlinks: Nothing was found.

Related Architecture Sections

- Add links to the architecture sections governing Test Environment reset, state isolation, cleanup, Node lifecycle, Test Resource lifecycle, and Test Execution admission.

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-remove-or-isolate-residual-state#Statement&noheader&nofooter&noeditbtn}}
```

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