

ENV-001f — Define Communication Relationships

[Go to ENV-001 — Define Test Environment](#)

Statement

The [DIDO-TE](#) SHALL define each communication relationship required among the elements included in a [Test Environment](#) or record that no communication relationship is required and provide the basis for the determination.

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

Defining the required communication relationships establishes how the elements included in a [Test Environment](#) exchange information during a [Test Execution](#).

The defined relationships provide the information required to configure connectivity, validate the instantiated Test Environment, reproduce its communication structure, and determine whether an unexpected communication path influenced a [Test Result](#).

An explicit determination that no communication relationship is required distinguishes an intentional condition from missing information.

Applies To

- [Test Environment](#)
- [Node](#)
- [Test Object](#)
- [Test Resource](#)

Verification

Verification confirms that:

- Each Test Environment defines every required communication relationship among its included elements.
- Each defined communication relationship identifies the participating elements.
- Each communication relationship present in the instantiated Test Environment corresponds to a defined communication relationship.
- A Test Environment requiring no communication relationship records the determination and its basis.
- An undefined required communication relationship constitutes nonconformance with this requirement.

Verification includes:

- Inspection of the controlled information for each Test Environment
- Inspection of the defined communication relationships
- Inspection of the communication relationships present in the instantiated Test Environment
- Comparison of the defined relationships with the relationships present in the instantiated Test Environment
- Inspection of recorded determinations that no communication relationship is required
- Inspection of the basis recorded for each such determination
- A negative assessment using an undefined or unexpected communication relationship
- 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 composition, communication, and connectivity.

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-001-define-test-environment:env-001f-define-
communication-relationships#Statement&noheader&nofooter&noeditbtn}}
```

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