

NOD-001a — Identify the Node Role

[Go to NOD-001 — Define a Node](#)

Statement

The [DIDO-TE](#) SHALL identify the role of each [Node](#) within the applicable [Test Environment](#).

Derived From

- [NOD-001 — Define a Node](#)
- [\[DTE5\] 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 Node role describes the responsibility assigned to a Node within a Test Environment. The role establishes why the Node participates in a test and distinguishes its responsibilities from those assigned to other Nodes.

Roles may include producing data, consuming data, transforming information, coordinating processing, providing a service, observing behaviour, injecting faults, emulating an external system, enforcing a policy, or collecting Evidence.

Explicit role identification prevents ambiguity when multiple Nodes use similar implementations or when one implementation performs different responsibilities in separate Test Environments. The identified role also provides a basis for defining interfaces, dependencies, permissions, lifecycle behaviour, observability, and expected Test Results.

Applies To

- [Node](#)
- [Test Environment](#)
- [Test Definition](#)
- [Test Execution](#)
- [Evidence](#)

Verification

Verification confirms that:

- Each Node has a uniquely identified role.
- The role describes the responsibility assigned to the Node within the Test Environment.
- The role identifies the purpose of the Node's participation in the applicable test.
- The role identifies the functions and behaviours expected from the Node.
- The role identifies the information, services, or resources the Node provides or consumes.
- The role distinguishes the Node's responsibilities from those assigned to other Nodes.
- The role identifies any responsibility for coordination, observation, fault injection, policy enforcement, emulation, or Evidence collection.
- The role remains independent of a particular Node instance unless the applicable Test Definition requires instance-specific behaviour.
- A Node assigned multiple roles has each role identified separately.
- The Node Definition identifies any constraints governing the combination of multiple roles.
- The role remains consistent with the Node's defined interfaces, dependencies, permissions, lifecycle behaviour, and observability requirements.
- The applicable Test Definition identifies the role assigned to each participating Node.
- A change to an assigned Node role produces a controlled change to the Node Definition or Test Definition.
- The DIDO-TE records the role assigned to each Node participating in a Test Execution.
- The DIDO-TE maintains [Traceability](#) among the Node, its role, the Node Definition, the Test Definition, the Test Environment, and the applicable Test Execution.
- An absent, ambiguous, conflicting, or untraceable mandatory Node role constitutes nonconformance with this requirement.

Verification includes:

- Inspection of each Node Definition
- Inspection of the roles assigned by the applicable Test Definition
- Comparison of each assigned role with the Node's interfaces, dependencies, permissions, and expected behaviour
- Confirmation that Nodes performing different responsibilities have distinguishable roles
- Confirmation that each Node assigned multiple roles has those roles separately identified
- A negative assessment involving an absent or ambiguous Node role
- A negative assessment involving a role inconsistent with the Node's defined behaviour
- Inspection of recorded role assignments and Traceability records

Referenced By

Plugin Backlinks: Nothing was found.

Related Architecture Sections

- Add links to the architecture sections governing Node definitions, Node responsibilities, Test Environment composition, Test Definition, and Traceability.

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:03-node-requirements:nod-001-define-a-node:nod-001a-identify-the-node-role#Statement&noheader&nofooter&noeditbtn}}
```

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