

NOD-003 — Configure a Node

[Go to Node Requirements](#)

Statement

The [DIDO-TE](#) SHALL configure each [Node](#) in accordance with its [Node Definition](#) and applicable [Test Definition](#).

Derived From

- [NOD-001 — Define a Node](#)
- [NOD-002 — Provision 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

[Node Configuration](#) establishes the [Configuration Values](#), settings, [Node Bindings](#), [Credentials](#), [Policies](#), [Configuration Parameters](#), and relationships required for a provisioned Node to participate in a [Test Environment](#).

Controlled configuration distinguishes the [Node Implementation](#) from the Node Configuration applied to a particular Node instance. This separation permits the DIDO-TE to reuse the same Node Implementation under different controlled test conditions.

Configuration preserves the identity, [Configuration Source](#), Configuration Value, authority, applicability, and [Provenance](#) of each material configuration item. It also distinguishes the intended Node Configuration from the configuration applied to the Node.

An incomplete, inconsistent, unauthorized, or unrecorded Node Configuration may change Node behavior and invalidate subsequent [Test Execution](#) and [Test Results](#).

Applies To

- [DIDO-TE](#)
- [Node](#)
- [Node Definition](#)
- [Node Implementation](#)
- [Node Configuration](#)
- [Configuration Parameter](#)

- [Configuration Value](#)
- [Configuration Source](#)
- [Node Binding](#)
- [Sensitive Configuration Value](#)
- [Configuration Record](#)
- [Test Definition](#)
- [Test Environment](#)
- [Test Execution](#)
- [Evidence](#)
- [Traceability](#)

Contents

Verification

Verification of NOD-003 occurs through verification of its decomposed child requirements.

Collectively, verification confirms that:

- The applicable Node Configuration is selected.
- Required Configuration Values are determined through [Configuration Resolution](#) using identified and authorized Configuration Sources.
- Configuration Values remain distinguishable from Node Implementation content and [Test Inputs](#).
- The DIDO-TE assigns the resolved Node Configuration to the intended Node instance through [Configuration Application](#).
- Required interfaces, endpoints, resources, services, and [Dependencies](#) are established through Node Bindings.
- Sensitive Configuration Values receive protection through applicable [Security Controls](#).
- The DIDO-TE records the intended, resolved, and applied Node Configurations in a Configuration Record.
- The DIDO-TE detects missing, invalid, incompatible, conflicting, altered, or unauthorized Configuration Values.
- The DIDO-TE performs [Configuration Validation](#) before using the configured Node in Test Execution.
- The DIDO-TE prevents an unconfigured, incorrectly configured, or unvalidated Node from participating in Test Execution.
- The DIDO-TE maintains Traceability among the Node Definition, Node Implementation, Node instance, Node Configuration, Test Definition, Test Environment, configuration activities, Configuration Record, validation results, and resulting Evidence.

Referenced By

- [NOD-003a — Select the Node Configuration](#)
- [NOD-003b — Resolve Node Configuration Values](#)
- [NOD-003c — Apply the Node Configuration](#)
- [NOD-003d — Establish Node Bindings](#)

- [NOD-003e — Protect Sensitive Configuration Values](#)
- [NOD-003f — Record Node Configuration](#)
- [NOD-003g — Validate the Configured Node](#)

Related Architecture Sections

- Add links to the architecture sections governing Node Configuration, Configuration Sources, Configuration Parameters, Node Bindings, Sensitive Configuration Values, Configuration Validation, Evidence, 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-003-configure-a-node:start#Statement&noheader&nofooter&noeditbtn}}
```

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