

NOD-002 — Provision a Node

[Go to Node Requirements](#)

Overview

This requirement group defines the obligations governing the [Provisioning](#) of a [Node](#) within a [Test Environment](#).

Provisioning establishes a Node instance from an approved Node Definition and makes the resources, artifacts, dependencies, interfaces, and initial conditions required for subsequent configuration and execution available.

The child requirements decompose Node Provisioning into independently verifiable obligations.

Contents

Derived From

- [\[DTE5\] DIDO-TE Requirements Register](#), source requirement identifiers and obligations to be assigned
- [\[DTE6\] Structured Information Processing Reference Architecture \(SIP-RA\)](#)
- [\[DTE7\] Federated Data Interpretation Systems Reference Architecture \(FDIS-RA\)](#)

Rationale

A Node Definition describes the Node required by a Test Definition, but the definition does not constitute an operational Node instance. Provisioning applies the Node Definition to create or obtain a Node instance with the required implementation, dependencies, resources, and initial conditions.

Controlled provisioning establishes correspondence between the defined Node and the provisioned Node instance. It also identifies the artifacts, versions, resource allocations, dependency resolutions, and provisioning activities that produced the instance.

Incomplete, inconsistent, unauthorized, or unrecorded provisioning introduces uncertainty into the Test Environment. The DIDO-TE requires sufficient control and evidence to determine whether observed behaviour belongs to the intended Node implementation operating under the intended conditions.

Provisioning does not establish the complete runtime configuration of the Node or begin Test Execution. Separate requirements govern Node configuration, execution, observation, validation, evidence, security, governance, and operations.

Applies To

- [DIDO-TE](#)
- [Node](#)
- Node Definition
- Node Implementation
- [Provisioning](#)
- [Test Environment](#)
- [Test Definition](#)
- [Test Resource](#)
- [Dependency](#)
- [Evidence](#)

Verification

Verification of this requirement group occurs through verification of its child requirements.

Collectively, verification confirms that:

- The DIDO-TE selects an approved and validated Node Definition.
- The DIDO-TE selects a Node implementation compatible with the Node Definition.
- The DIDO-TE resolves the mandatory Dependencies required to provision the Node.
- The DIDO-TE allocates the resources required to provision the Node.
- The DIDO-TE creates or obtains a uniquely identifiable Node instance.
- The provisioned Node corresponds to the selected Node Definition and implementation.
- The DIDO-TE establishes the specified initial state without beginning Test Execution.
- The DIDO-TE records the inputs, activities, outputs, findings, exceptions, and results of Node Provisioning.
- The DIDO-TE validates the provisioned Node before configuration or execution.
- The DIDO-TE prevents an unsuccessfully provisioned or unvalidated Node from participating in Test Execution.
- The DIDO-TE maintains [Traceability](#) among the Node Definition, Node implementation, provisioned Node instance, Dependencies, allocated Test Resources, provisioning activities, validation results, and resulting Evidence.

Referenced By

- [NOD-002a — Select the Node Definition](#)
- [NOD-002b — Select the Node Implementation](#)
- [NOD-002c — Resolve Node Dependencies](#)
- [NOD-002d — Allocate Node Resources](#)
- [NOD-002e — Instantiate the Node](#)
- [NOD-002f — Establish the Node Initial State](#)
- [NOD-002g — Record Node Provisioning](#)
- [NOD-002h — Validate the Provisioned Node](#)
- [NOD-003a — Select the Node Configuration](#)
- [NOD-003 — Configure a Node](#)

Related Architecture Sections

- Add links to the architecture sections governing Node Provisioning, implementation selection, Dependency resolution, resource allocation, Node lifecycle, validation, Evidence, and Traceability.

Delivery Phase

Assign the applicable delivery phase.

Requirement Status

Draft

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