

NOD-004b — Start the Node

[Go to NOD-004 — Control the Node Lifecycle](#)

Statement

The [DIDO-TE](#) SHALL start each [Node](#) through an identified and authorized lifecycle procedure.

Derived From

- [NOD-004 — Control the Node Lifecycle](#)
- [NOD-004a — Establish the Initial Node 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

Starting a Node moves it from an established initial state into an operating state from which the DIDO-TE determines readiness for participation in a [Test Environment](#).

A controlled start operation applies the sequence, parameters, dependencies, authorities, time constraints, and environmental conditions specified by the [Node Definition](#), [Node Implementation](#), [Node Configuration](#), and applicable [Test Definition](#).

Starting a Node does not by itself establish Node readiness. The start operation establishes the operating condition that NOD-004c evaluates before the Node participates in [Test Execution](#).

An uncontrolled, incomplete, unauthorized, duplicate, or out-of-sequence start may produce an unknown Node state, activate unintended services or connections, disrupt dependent Nodes, or compromise Test Environment isolation.

Applies To

- [DIDO-TE](#)
- [Node](#)
- [Node Definition](#)
- [Node Implementation](#)
- [Node Configuration](#)
- [Node Binding](#)
- [Dependency](#)
- [Test Definition](#)

- [Test Environment](#)
- [Test Resource](#)
- [Test Execution](#)
- [Evidence](#)
- [Traceability](#)

Verification

Verification confirms that:

- The DIDO-TE uniquely identifies the Node before starting it.
- The DIDO-TE confirms that the Node occupies a permitted initial state.
- The DIDO-TE uses an identified and authorized start procedure.
- The start operation identifies the initiating authority, target Node, start parameters, applicable preconditions, and intended resulting state.
- The DIDO-TE verifies each mandatory start precondition before initiating the start operation.
- The DIDO-TE verifies the availability of each Dependency, Node Binding, service, and Test Resource required during startup.
- The DIDO-TE starts dependent Nodes and services in the required sequence.
- The DIDO-TE applies the Node Configuration and startup parameters associated with the authorized start operation.
- The DIDO-TE prevents duplicate, conflicting, unauthorized, or out-of-sequence start operations.
- The DIDO-TE observes the Node during the start operation.
- The DIDO-TE detects an unsuccessful, incomplete, interrupted, stalled, or timed-out start operation.
- The DIDO-TE detects an unexpected process, service, connection, Node Binding, error, or state transition during startup.
- The DIDO-TE confirms the actual Node state after the start operation.
- The DIDO-TE distinguishes completion of the start operation from confirmation of Node readiness.
- An unsuccessful start leaves the Node in a known state or identifies the resulting state and required recovery action.
- The DIDO-TE prevents a Node with an unsuccessful, incomplete, unauthorized, or ambiguous start result from participating in Test Execution.
- The DIDO-TE records the Node identity, initiating authority, start procedure, parameters, source state, operations, timing, actual resulting state, findings, exceptions, and recovery actions.
- Repeated authorized starts from equivalent initial conditions produce equivalent resulting states within specified tolerances.
- The DIDO-TE maintains Traceability among the Node Definition, Node Implementation, Node Configuration, Node Bindings, Dependencies, start procedure, start activity, resulting state, findings, exceptions, and resulting Evidence.
- An incorrect, incomplete, unsuccessful, unauthorized, ambiguous, or untraceable start operation constitutes nonconformance with this requirement.

Verification includes:

- Inspection of the Node identity and initial state
- Inspection of the authorized start procedure and responsible authority
- Inspection of start preconditions, parameters, Dependencies, Node Bindings, services, and Test Resources

- Observation of the start sequence
- Observation of the Node during startup
- Confirmation of the actual resulting Node state
- A negative assessment involving an unauthorized start
- A negative assessment involving an unavailable mandatory Dependency
- A negative assessment involving an interrupted or timed-out start
- Confirmation that an unsuccessful start prevents Test Execution
- Confirmation that startup completion does not automatically establish Node readiness
- Inspection of start records, findings, exceptions, recovery actions, Evidence, and Traceability

Referenced By

- [NOD-004c — Confirm Node Readiness](#)
- [NOD-004d — Transition the Node State](#)
- [NOD-004f — Restart or Recover the Node](#)
- [NOD-004g — Handle a Node Lifecycle Exception](#)
- [NOD-004h — Record Node Lifecycle Activity](#)

Related Architecture Sections

- Add links to the architecture sections governing Node startup, Node lifecycle states, Node Configuration, Node Bindings, Dependencies, readiness, recovery, 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-004-control-the-node-lifecycle:nod-004b-start-the-node#Statement&noheader&nofooter&noeditbtn}}
```

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