

NOD-009a — Establish Node Resource Controls

[Go to NOD-009 — Control Node Resources](#)

Statement

The [DIDO-TE](#) SHALL establish the controls specified by the governing [Test Definition](#) for the resources used by each [Node](#).

Derived From

- [NOD-009 — Control Node Resources](#)
- [\[DTE5\] 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

Establishing Node resource controls identifies the resources assigned to a Node and the conditions governing their allocation, availability, access, use, modification, retention, and release.

Resources include [Test Resources](#) and the computing, processing, memory, storage, communication, service, interface, credential, and external resources identified by the governing Test Definition.

The governing Test Definition identifies each controlled resource and specifies its authorized quantity, capacity, rate, duration, priority, access restrictions, sharing conditions, and release conditions. The governing [Test Procedure](#) specifies the actions used to apply and remove those controls.

Resource controls establish the conditions under which the Node operates before the DIDO-TE allocates a resource or permits the Node to use it. This prevents an unconfigured or uncontrolled resource from changing the intended conditions of a Test Execution.

The DIDO-TE associates each resource control with the Node, Test Environment, Test Executions, and authority governed by that control. Incorrectly scoped or misattributed controls may affect unrelated Nodes or allow unauthorized resource use.

Applies To

- [DIDO-TE](#)
- [Node](#)

- [Node Definition](#)
- [Node Implementation](#)
- [Node Configuration](#)
- [Node Binding](#)
- [Dependency](#)
- [Test Definition](#)
- [Test Procedure](#)
- [Test Environment](#)
- [Test Execution](#)
- [Test Resource](#)
- [Authorizing Authority](#)
- [Evidence](#)
- [Traceability](#)

Verification

Verification confirms that:

1. The governing Test Definition identifies each resource subject to Node resource control.
2. The governing Test Definition identifies the Node authorized to use each controlled resource.
3. The governing Test Definition specifies the quantity, capacity, rate, duration, priority, access restrictions, sharing conditions, and release conditions governing each controlled resource.
4. The governing Test Procedure specifies the actions used to establish and remove each resource control.
5. The DIDO-TE uniquely identifies each controlled resource.
6. The DIDO-TE uniquely identifies the Node governed by each resource control.
7. The DIDO-TE establishes each resource control before allocating the controlled resource to the Node.
8. The DIDO-TE establishes each resource control before permitting the Node to use the controlled resource.
9. The DIDO-TE associates each resource control with the governing Test Definition and Test Procedure.
10. The DIDO-TE associates each resource control with the governed Test Environment and Test Executions.
11. The DIDO-TE verifies that each resource control reflects the conditions specified by the governing Test Definition.
12. The DIDO-TE verifies that each resource control is active before the Node uses the resource.
13. The DIDO-TE prevents an unidentified or unauthorized resource from being assigned to the Node.
14. The DIDO-TE prevents a resource without the required controls from being allocated to the Node.
15. The DIDO-TE prevents a resource control for one Node from being attributed to another Node.
16. The DIDO-TE prevents a resource control from unnecessarily restricting an unrelated Node or Test Execution.
17. The DIDO-TE detects a missing, incomplete, conflicting, incorrectly configured, incorrectly scoped, unauthorized, or bypassed resource control.
18. The DIDO-TE identifies the actual state of a resource when establishment of its control is unsuccessful.
19. The DIDO-TE maintains Traceability among the Node identity, resource identity, governing Test

Definition, governing Test Procedure, resource controls, Test Environment, Test Executions, and resulting Evidence.

20. A missing, incomplete, conflicting, incorrectly configured, incorrectly scoped, unauthorized, bypassed, or untraceable Node resource control constitutes nonconformance with this requirement.

Referenced By

The following pages reference this requirement:

- [NOD-009b — Allocate Node Resources](#)
- [NOD-009c — Control Node Resource Use](#)
- [NOD-009d — Handle a Node Resource-Control Exception](#)
- [NOD-009e — Release Node Resources](#)
- [NOD-009f — Record Node Resource Control](#)

Delivery Phase

- ☐ Assign the delivery phase.

Implementation Status

- ☐ Assign the implementation status.

Requirement Status

- ☐ The proposed derived requirement requires review and acceptance.

Issues

- ☐ Assign the source requirement identifier and obligation from the DIDO-TE Requirements Register.
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Notes for Editors

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{{section>dido:03-dido-te:99-annexes:annex-c-requirements:03-node-requirements:nod-009-control-node-resources:nod-009a-establish-node-resource-controls#Statement&noheader&nofooter&noeditbtn}}
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