

NET-001 — Establish a Virtual Network

[Go to C.3.4 Virtual Network and Communication Requirements](#)

Statement

The [DIDO-TE](#) SHALL establish each [Virtual Network](#) specified by the governing [Test Definition](#).

Source

- [\[DTE1\] U.S. Patent Application US20220237111A1](#), Virtual Network definition, establishment, and configuration
- [\[DTE2\] Non-Traditional BAA Submission](#), Virtual Networks and Communication
- [\[DTE3\] Broad Agency Announcement White Paper](#), Virtual Networks and Communication

Rationale

Distributed testing may require communication relationships that are independent of the physical network supporting the participating entities.

A [Virtual Network](#) provides the network representation through which those communication relationships can subsequently be defined and exercised.

Establishing the Virtual Network is distinct from defining its [Network Topology](#), connecting participating [Nodes](#), or configuring its [Communication Characteristics](#). Those obligations are governed by separate NET requirements.

The governing [Test Definition](#) determines whether a Virtual Network is required for the test and identifies the Virtual Network to be established.

This requirement does not prescribe the technology used to realize the Virtual Network.

Applies To

- [DIDO-TE](#)
- [Virtual Network](#)
- [Test Environment](#)
- [Test Definition](#)
- [Configuration](#)

Verification

Verification confirms that:

1. Each Virtual Network identified by the governing Test Definition is established.
2. The established Virtual Network is identifiable independently of the physical network used to realize it.
3. A Virtual Network not identified by the governing Test Definition is not required by this requirement.
4. Establishment of the Virtual Network does not depend upon a particular networking product, middleware implementation, cloud provider, or deployment technology.
5. The established Virtual Network is traceable to the governing Test Definition.

Verification includes a Test Definition that identifies a Virtual Network and confirms that the identified Virtual Network exists before its network topology, participating Nodes, or Communication Characteristics are exercised during [Test Execution](#).

Traceability

Plugin Backlinks: Nothing was found.

ConOps Relationship

This requirement establishes the Virtual Network required for a distributed Test Environment.

Subsequent NET requirements define the Network Topology, connect participating Nodes, configure Communication Characteristics, reproduce Degraded Communication Conditions, and support participation by Real-World or geographically distributed Nodes.

Delivery Phase

TBD

Requirement Status

Draft

Statement Reference

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{{section>dido:03-dido-te:99-annexes:annex-c-requirements:03-functional-requirements:03-04-virtual-network-and-communication-requirements:net-001-establish-a-virtual-network#Statement&noheader&nofooter&noeditbtn}}
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