

NET-004a — Configure Communication Latency

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Statement

The [DIDO-TE](#) SHALL configure the [Latency](#) specified for communication through each [Virtual Network](#).

Source

- [\[DTE1\] U.S. Patent Application US20220237111A1](#), representation and configuration of communication latency within Virtual Networks
- [\[DTE2\] Non-Traditional BAA Submission](#), Virtual Networks and Communication

Rationale

[Latency](#) is a [Communication Characteristic](#) that can affect the behavior of a distributed system during testing.

The governing [Test Definition](#) specifies the Latency required for communication through the [Virtual Network](#).

Configuring Latency allows DIDO-TE to represent communication delay independently of the physical distance, infrastructure, or networking technology used to realize the Virtual Network.

A [Communication Parameter](#) may provide the value or constraint used to configure Latency.

This requirement does not prescribe the mechanism used to introduce, control, or reproduce Latency.

Applies To

- [DIDO-TE](#)
- [Virtual Network](#)
- [Latency](#)
- [Communication Characteristic](#)
- [Communication Parameter](#)
- [Test Environment](#)
- [Test Definition](#)
- [Configuration](#)

Verification

Verification confirms that:

1. The Latency specified by the governing Test Definition is configurable for communication through the Virtual Network.
2. The configured Latency can be determined independently of the physical network used to realize the Virtual Network.
3. The configured Latency is traceable to the governing Test Definition.
4. Configuring Latency does not require a particular networking technology, middleware implementation, or network-emulation mechanism.

Verification includes a Test Definition specifying a communication Latency and confirms that the Virtual Network is configured with that Latency.

Traceability

- [NET-004 — Configure Communication Behavior](#)

ConOps Relationship

This requirement configures the Latency associated with communication through a Virtual Network.

NET-004b separately configures the Communication Protocol, and NET-004c separately configures Internet Quality of Service.

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-004-configure-communication-behavior:net-004a-configure-communication-latency#Statement&noheader&nofooter&noeditbtn}}
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