

NET-004b — Configure Communication Protocol

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Statement

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

Source

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

Rationale

A [Communication Protocol](#) specifies the rules and conventions governing information exchange between communicating entities.

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

Configuring the Communication Protocol allows a Test Environment to reproduce the protocol conditions required by the distributed system under test without prescribing the implementation technology used to realize those conditions.

A Communication Protocol remains distinct from a [Communication Characteristic](#). A protocol defines the rules governing information exchange, while a Communication Characteristic describes an aspect of that exchange.

A Communication Protocol also remains distinct from [Internet Quality of Service \(Internet QoS\)](#). Internet QoS describes characteristics of packet delivery, while a Communication Protocol governs the rules used for information exchange.

This requirement does not prescribe a particular protocol, protocol stack, middleware technology, transport mechanism, or network implementation.

Applies To

- [DIDO-TE](#)

- [Virtual Network](#)
- [Communication Protocol](#)
- [Communication Parameter](#)
- [Test Environment](#)
- [Test Definition](#)
- [Configuration](#)

Verification

Verification confirms that:

1. The Communication Protocol specified by the governing Test Definition is configurable for communication through the Virtual Network.
2. The configured Communication Protocol can be identified independently of the technology used to realize the Virtual Network.
3. The configured Communication Protocol is traceable to the governing Test Definition.
4. Configuring the Communication Protocol does not require a particular networking product, middleware implementation, or deployment technology.

Verification includes a Test Definition specifying a Communication Protocol and confirms that communication through the Virtual Network is configured to use that protocol.

Traceability

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

ConOps Relationship

This requirement configures the Communication Protocol governing information exchange through a Virtual Network.

NET-004a separately configures [Latency](#), and NET-004c separately configures [Internet Quality of Service \(Internet QoS\)](#).

Delivery Phase

TBD

Requirement Status

Draft

Statement Reference

{{section>dido:03-dido-te:99-annexes:annex-c-requirements:03-functional-requirements:03-04-virtual-network-and-communication-requirements:net-004-configure-communication-characteristics:net-004b-configure-communication-protocol#Statement&noheader&nofooter&noeditbtn}}}

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