

TWIN-004 — Select a Twin Realization

[Go to C.3.3 Twin Node Requirements](#)

Statement

The [DIDO-TE](#) SHALL select a [Twin Realization](#) associated with the [Twin Identity](#) identified by the governing [Test Definition](#) using the selection criteria defined by the governing [Configuration](#).

Source

- [\[DTE1\] U.S. Patent Application US20220237111A1](#), virtual and physical Twin Node concepts and selection between Twin Nodes
- [\[DTE2\] Non-Traditional BAA Submission, F17, Twin Nodes Selection](#)
- [\[DTE9\] Distributed Immutable Data Object Reference Architecture \(DIDO-RA\)](#), Digital Twin concepts

Rationale

A [Twin Identity](#) may have more than one associated [Twin Realization](#), including virtual and physical or real-world realizations.

The governing [Test Definition](#) identifies the Twin Identity required for the Test Execution. The governing [Configuration](#) defines the criteria used to select one of the Twin Realizations associated with that Twin Identity.

Selection of a Twin Realization determines which realization participates in the Test Execution without changing the Twin Identity represented by that realization.

Twin Realization selection remains distinct from [Source Selection](#). Twin Realization selection determines which realization of a Twin Identity participates in the Test Execution. Source Selection determines which eligible [Data Source](#) supplies data for a defined purpose.

Discovery, availability, communication matching, or other implementation-specific mechanisms do not replace the selection criteria defined by the governing [Configuration](#).

Selecting one Twin Realization does not remove, replace, or redefine other Twin Realizations associated with the same Twin Identity.

Applies To

- [DIDO-TE](#)
- [Twin Identity](#)

- [Twin Identifier](#)
- [Twin Realization](#)
- [Twin Realization Identifier](#)
- [Twin Realization Type](#)
- [Twin Relationship](#)
- [Configuration](#)
- [Test Definition](#)
- [Test Execution](#)
- [Source Selection](#)

Verification

Verification confirms that:

1. The governing Test Definition identifies the Twin Identity required for the Test Execution.
2. The selected Twin Realization is associated with that Twin Identity.
3. The selected Twin Realization is identifiable by its Twin Realization Identifier.
4. The selection uses the criteria defined by the governing Configuration.
5. A Twin Realization not associated with the identified Twin Identity is excluded from selection.
6. Selection does not change the Twin Identity or Twin Identifier.
7. Selection does not remove or alter another Twin Realization associated with the same Twin Identity.
8. The selected Twin Realization can be determined from the governing Test Definition, governing Configuration, and selection criteria.

Verification includes a Twin Identity with at least two associated Twin Realizations and confirms selection of one realization without changing the Twin Identity or the associations of the remaining realizations.

Traceability

Plugin Backlinks: Nothing was found.

ConOps Relationship

This requirement supports selection of the Twin Realization used during Test Execution after the Test Definition identifies the Twin Identity and the governing Configuration establishes the selection criteria.

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:03-03-twin-node-requirements:twin-004-select-a-twin-realization#Statement&noheader&nofooter&noeditbtn}}
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