

TWIN-001c — Identify a Twin Realization

[Go to TWIN-001 — Establish Twin Identity](#)

Statement

The DIDO-TE SHALL assign each [Twin Realization](#) a unique [Twin Realization Identifier](#).

Source

- [\[DTE1\] U.S. Patent Application US20220237111A1](#), virtual and physical Twin Node concepts
- [\[DTE2\] Non-Traditional BAA Submission, F17, Twin Nodes Selection](#)

Rationale

A [Twin Identity](#) identifies the logical twin, while a [Twin Realization Identifier](#) identifies a particular [Twin Realization](#) associated with that Twin Identity.

Separate identification of each Twin Realization allows DIDO-TE to distinguish among multiple realizations of the same logical twin while preserving their common [Twin Identifier](#).

The Twin Realization Identifier remains independent of implementation-specific identifiers such as container identifiers, process identifiers, host names, network addresses, DDS entity identifiers, or other resource identifiers.

This distinction supports [Configuration](#), realization selection, state acquisition, comparison, and [Traceability](#).

Applies To

- [Twin Identity](#)
- [Twin Identifier](#)
- [Twin Realization](#)
- [Twin Realization Identifier](#)
- [Twin Node](#)

Verification

Verification confirms that:

1. Each Twin Realization has a Twin Realization Identifier.

- 2. Two distinct Twin Realizations do not have the same Twin Realization Identifier within the applicable identity scope.
- 3. Multiple Twin Realizations associated with one Twin Identity remain individually distinguishable.
- 4. The Twin Realization Identifier remains distinguishable from the Twin Identifier.
- 5. A change to an implementation-specific resource identifier does not, by itself, change the Twin Realization Identifier.

Verification includes inspection of a Twin Identity associated with multiple Twin Realizations.

Traceability

Plugin Backlinks: Nothing was found.

ConOps Relationship

This requirement supports registration, Configuration, selection, observation, and comparison of individual Twin Realizations associated with a Twin Identity.

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-001-establish-twin-identity:twin-001c-identify-a-twin-realization#Statement&noheader&nofooter&noeditbtn}}
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Last update: 2026/08/20 11:23

