

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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