

C.3.3 Twin Node Requirements

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This section identifies the requirements governing [Twin Nodes](#) used to represent, reproduce, observe, compare, or interact with the behavior of corresponding [Nodes](#) within distributed verification and testing.

Twin Node requirements address the controlled relationship between a Twin Node and the Node, system, service, or behavior it represents, including identity, configuration, state, synchronization, observation, substitution, comparison, and traceability.

The requirements in this section derive from the applicable source documents identified in Annex B. Some requirements derive directly from those sources. Others normalize or decompose source concepts into individually verifiable architectural obligations.

A Twin Node requirement may be represented by an individual leaf requirement or by a non-leaf requirement group containing subordinate independently verifiable obligations.

Requirements

☐ Identify and disposition the Twin Node requirements and their Primary Source Basis before creating the canonical requirement table.

Contents

- [TWIN-001 — Define a Twin Node](#)
 - [TWIN-002 — Associate a Twin Node with a Referent](#)
 - [TWIN-003 — Configure a Twin Node](#)
 - [TWIN-004 — Acquire Twin Node State](#)
 - [TWIN-005 — Synchronize Twin Node State](#)
 - [TWIN-006 — Simulate Twin Node Behavior](#)
 - [TWIN-007 — Compare Twin and Referent State and Behavior](#)
 - [TWIN-008 — Control Twin Node Interaction with the Referent](#)
 - [TWIN-009 — Maintain Twin Node Traceability](#)
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- [TWIN-001 — Establish Twin Identity](#)
 - [TWIN-002 — Associate Twin Realizations](#)
 - [TWIN-003 — Configure a Twin Relationship](#)
 - [TWIN-004 — Select a Twin Realization](#)
 - [TWIN-005 — Access Twin Realization State](#)
 - [TWIN-006 — Synchronize Twin Realization State](#)
 - [TWIN-007 — Simulate Twin Behavior](#)
 - [TWIN-008 — Compare Twin Results](#)
 - [TWIN-009 — Control Twin Interaction](#)
 - [TWIN-010 — Maintain Twin Traceability](#)

☐ Add explicit links to proposed Twin Node requirement pages while the requirement set is being created.

- [TWIN-001 — Establish Twin Identity](#)
- [TWIN-002 — Associate Twin Realizations](#)
- [TWIN-003 — Configure a Twin Relationship](#)
- [TWIN-004 — Select a Twin Realization](#)
- [TWIN-005 — Access Twin Realization State](#)
- [TWIN-006 — Synchronize Twin Realization State](#)
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- [TWIN-008 — Compare Twin Results](#)
- [TWIN-009 — Control Twin Interaction](#)
- [TWIN-010 — Maintain Twin Traceability](#)

Notes for Editors

Twin Node requirements use the TWIN requirement prefix.

The explicit links under Contents remain while the Twin Node requirement pages are being created and reviewed. After all planned requirement pages exist, the explicit links may be removed because the indexmenu automatically discovers them.

Preserve stable requirement identifiers when moving or reorganizing Twin Node requirement pages.

Apply the requirement identification, decomposition, source and derivation, normative-language, quality, status, and page-structure rules defined by Annex C.

Do not allocate Twin Node requirements directly to a particular product or realization within the requirement Statement. Maintain realization relationships through Traceability.

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