

# P2-REQ-16-9-013

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## Statement

Logical [Traceability](#) SHALL NOT require artificial one-to-one correspondence where one-to-many or many-to-one relationships better represent the architecture.

## Source

Part 2, Section 16.9: Logical Traceability Requirements.

## Rationale

Architectural relationships are not always one-to-one. A single conceptual concern may refine into several logical elements, and multiple logical elements may contribute to a common implementation or evidence artefact. Allowing many-to-one and one-to-many relationships ensures that the Traceability Model accurately reflects the architecture rather than forcing artificial mappings that obscure architectural intent.

## Applies To

This requirement applies to the Logical Traceability Model.

It applies specifically to:

- Traceability relationships;
- Conceptual elements;
- Logical elements;
- Domain Logical Profiles; and
- Implementation Profiles.

## Verification

Verification SHALL confirm that the Logical Traceability Model supports the architectural relationships actually present.

Verification activities should include review checks confirming that:

- one-to-many relationships are permitted where appropriate;

- many-to-one relationships are permitted where appropriate;
- artificial mappings are avoided; and
- traceability accurately represents the architecture.

## Traceability

This requirement supports accurate traceability throughout the architecture lifecycle without imposing unnecessary structural constraints.

Related requirement identifiers:

- [p2-req-16-9-010](#)
- [p2-req-16-9-012](#)
- [p2-req-16-10-008](#)

Related source section:

- [16.9 Logical Traceability Requirements](#)

## Status

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Last update: **2026/07/11 12:57**

