

P1-REQ-13-7-008

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Statement

[Traceability](#) SHALL support impact analysis across conceptual, logical, implementation, deployment, and [Evidence](#) layers.

Source

Part 1, Section 13.7: Traceability Requirements.

Rationale

Impact analysis depends on traceability across architectural layers. A change to a conceptual concern may affect logical elements, implementation artefacts, deployment artefacts, and evidence. A change to evidence, deployment, implementation, or logical material may also affect the interpretation of architectural support.

This requirement supports change control, review, governance, and risk management across the architecture lifecycle.

Applies To

This requirement applies to traceability relationships used for impact analysis.

It applies specifically to impact analysis across:

- Conceptual layers
- Logical layers
- Implementation layers
- Deployment layers
- Evidence layers

Verification

Verification SHALL confirm that Traceability supports impact analysis across conceptual, logical, implementation, deployment, and Evidence layers.

Verification activities include review checks confirming that:

- Traceability identifies affected upstream elements
- Traceability identifies affected downstream elements
- Impact analysis spans the required architectural layers
- Impact analysis distinguishes one-to-one, one-to-many, many-to-one, and many-to-many relationships where applicable

Traceability

Related source section:

- [13.7 Traceability Requirements](#)

Related requirement identifiers:

- [p1-req-13-7-001](#)
- [p1-req-13-7-006](#)
- [p1-req-13-7-007](#)
- [p1-req-13-7-009](#)

Status

Draft

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

