

P3-REQ-17-11-005

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Statement

FX Node Traceability SHALL relate an FX logical Node to inherited logical sources, conceptual sources, Node Roles, responsibilities, endpoints, Runtime Plane participation, interactions, governance relationships, and evidence expectations.

Source

Part 3, Section 17.11: FX Logical Traceability Requirements.

Rationale

Node Traceability establishes the complete architectural lineage of every FX logical Node. By relating Nodes to their conceptual origins, inherited logical sources, responsibilities, communication endpoints, Runtime Plane participation, governance relationships, interactions, and evidence expectations, reviewers can understand how each Node contributes to the overall logical architecture.

Maintaining these relationships supports architectural governance, impact analysis, interoperability, and conformance while remaining independent of implementation technologies.

Applies To

This requirement applies to all FX logical Nodes within the FX Demo Logical Profile.

It applies specifically to:

- logical Nodes;
- Node Roles;
- Runtime Plane participation;
- governance relationships;
- evidence expectations; and
- derived Implementation Profiles.

Verification

Verification SHALL confirm that each FX logical Node maintains the required traceability relationships.

Verification activities should include review checks confirming that:

- conceptual and logical source relationships are identified;
- Node Roles and responsibilities are traceable;
- endpoint, interaction, and Runtime Plane relationships are identified; and
- governance and evidence expectations are represented.

Traceability

This requirement establishes traceability for FX logical Nodes.

Related requirement identifiers:

- [P3-REQ-17-11-004](#)
- [P3-REQ-17-11-006](#)
- [P3-REQ-17-11-009](#)

Related source section:

- [17.11 FX Logical Traceability Requirements](#)

Status

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