

21.14 Implementation Traceability Requirements

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This section identifies the normative requirements established for Phase 0 implementation traceability. The canonical requirement statements are maintained in [Annex D: Requirements, Part 4, Section 21.14](#).

Table 21-13: Implementation traceability requirements.

Requirement ID	Statement
P4-REQ-21-14-001	The Phase 0 Implementation Profile / PSM SHALL define an Implementation Traceability Model.
P4-REQ-21-14-002	Implementation traceability SHALL preserve the chain from Part 1 conceptual elements, through Part 2 logical elements, through Part 3 FX logical profile elements, to Part 4 implementation artifacts.
P4-REQ-21-14-003	Implementation traceability SHALL support forward review from FX logical elements to Phase 0 implementation artifacts.
P4-REQ-21-14-004	Implementation traceability SHALL support backward review from Phase 0 implementation artifacts to FX logical elements or implementation concerns.
P4-REQ-21-14-005	Node implementation traceability SHALL relate FX logical Nodes and Node Roles to implementation participants and modules.
P4-REQ-21-14-006	Topic implementation traceability SHALL relate FX logical Communication Endpoints to DDS Topics.
P4-REQ-21-14-007	IDL and generated type traceability SHALL relate FX logical information structures to IDL structures and generated types.
P4-REQ-21-14-008	Runtime Plane implementation traceability SHALL relate FX Runtime Planes to DDS topic families, QoS profiles, logging categories, exception-handling behavior, and implementation conventions.
P4-REQ-21-14-009	Script and repository traceability SHALL relate scripts and repository locations to implementation concerns.
P4-REQ-21-14-010	Developer Handbook traceability SHALL relate handbook rules to implementation concerns and Part 4 requirements.
P4-REQ-21-14-011	Implementation traceability SHALL NOT redefine logical traceability.

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Last update: 2026/08/07 14:36

