

18.10 Implementation Traceability Summary

[Go To Phase 0 Implementation Traceability Model](#)

The Phase 0 Implementation [Traceability](#) Model preserves the connection between FX logical architecture and Phase 0 implementation artifacts.

Table 18-3: Summary of Phase 0 implementation traceability relationships

Traceability relationship	Connects	Supports
Part 3 FX logical element to Part 4 implementation artifact	FX logical elements to implementation artifacts	Forward review from logical design to implementation realization
Implementation artifact to Part 3 FX logical element	Implementation artifacts to FX logical sources or implementation concerns	Backward review from implementation artifact to architectural justification
Node implementation traceability	FX logical Nodes and Node Roles to implementation participants and modules	Responsibility review and implementation mapping
Topic implementation traceability	FX logical Communication Endpoints to DDS Topics	Communication mapping and endpoint review
IDL and generated type traceability	FX logical information structures to IDL structures and generated types	Data representation review and generation repeatability
Runtime Plane implementation traceability	FX Runtime Planes to DDS topic families, QoS profiles, logging categories, and implementation conventions	Runtime Plane discipline and separation of concerns
Script and repository traceability	Scripts and repository locations to implementation concerns	Workflow review, automation control, and repository governance
Developer Handbook traceability	Handbook rules to implementation concerns and Part 4 requirements	Developer discipline, review consistency, and baseline control

The implementation traceability relationships in Table 18-3 prepare Part 5 to deploy, test, observe, operate, and evidence the Phase 0 implementation artifacts while preserving traceability back to Parts 1, 2, and 3.

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