

8.10 FX Audit and Provenance Node Mapping

Go To Mapping from FX Logical Nodes to Implementation Artifacts

The FX Audit and Provenance [Node](#) maps to the Phase 0 implementation artifact that records auditable information and provenance relationships for selected Phase 0 interactions.

The implementation artifact performs the Audit Recording [Role](#) and the Provenance Recording Role. It consumes selected implementation events, messages, records, or [traceability](#) information, produces implementation representations of an FX Audit Record and an FX Provenance Record, and publishes or stores those records through the selected Phase 0 implementation mechanism.

Table 8-8: FX Audit and Provenance Node implementation mapping.

Mapping Concern	Phase 0 Implementation Treatment
FX logical Node	FX Audit and Provenance Node
Primary Node Roles	Audit Recording Role; Provenance Recording Role
Primary Runtime Plane	FX Logical Audit and Provenance Plane
Supporting Runtime Planes	All Runtime Planes where audit or provenance records describe interactions.
Primary implementation responsibility	Record auditable information and provenance relationships for selected Phase 0 interactions.
Primary DDS interactions	Publish or consume through DDS Topics that realize the FX Audit Record Endpoint and the FX Provenance Record Endpoint, where Phase 0 uses DDS for audit and provenance.
Primary data artifacts	IDL and generated types representing the FX Audit Record and the FX Provenance Record.
Supporting artifacts	Audit helper module, provenance helper module, logging helper, traceability metadata, and persistence support where included in Phase 0.
Traceability expectation	Implementation artifact traces to the FX Audit and Provenance Node, Audit Recording Role, Provenance Recording Role, FX Audit Record Endpoint, FX Provenance Record Endpoint, FX Audit Record, and FX Provenance Record.

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