

8.11 FX Health and Observability Node Mapping

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The FX Health and Observability [Node](#) maps to the Phase 0 implementation artifact that observes and reports the implementation Node condition.

The implementation artifact performs or supports the Health Reporting [Role](#). It receives or collects implementation representations of FX Node Status, observes lifecycle-state reports, records warnings or degraded conditions, and supports Control Plane or audit/provenance interaction when Phase 0 requires those relationships.

Table 8-9: FX Health and Observability Node implementation mapping.

Mapping Concern	Phase 0 Implementation Treatment
FX logical Node	FX Health and Observability Node
Primary Node Role	Health Reporting Role
Primary Runtime Plane	FX Logical Health and Observability Plane
Supporting Runtime Planes	FX Logical Control Plane; FX Logical Audit and Provenance Plane
Primary implementation responsibility	Observe and report the implementation Node condition.
Primary DDS interactions	Subscribe to or publish through the DDS Topic that realizes the FX Node Status Endpoint.
Primary data artifact	IDL and a generated type representing FX Node Status.
Supporting artifacts	Health helper module, logging helper, lifecycle-state conventions, and traceability metadata.
Traceability expectation	Implementation artifact traces to the FX Health and Observability Node, Health Reporting Role, FX Node Status Endpoint, and FX Node Status.

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