

8.12 FX Registry and Coordination Node Mapping

Go To Mapping from FX Logical Nodes to Implementation Artifacts

The FX Registry and Coordination [Node](#) maps to the Phase 0 implementation artifact that supports registration, capability advertisement, compatibility awareness, and command coordination.

The implementation artifact performs the Registry and Coordination [Role](#). It receives or records Node identity, supported roles, supported Topics, supported information-structure versions, lifecycle state, compatibility metadata, and selected Control Plane commands or acknowledgements.

Table 8-10: FX Registry and Coordination Node implementation mapping.

Mapping Concern	Phase 0 Implementation Treatment
FX logical Node	FX Registry and Coordination Node
Primary Node Role	Registry and Coordination Role
Primary Runtime Plane	FX Logical Control Plane
Supporting Runtime Planes	FX Logical Health and Observability Plane; FX Logical Audit and Provenance Plane
Primary implementation responsibility	Support registration, capability advertisement, compatibility awareness, and command coordination.
Primary DDS interactions	Use DDS Topics that realize the FX Control Command Endpoint, the FX Node Status Endpoint, or other registry-related communication artifacts where Phase 0 requires them.
Primary data artifacts	IDL and generated types representing the FX Control Command, the FX Command Acknowledgement, and FX Node Status.
Supporting artifacts	Registry helper module, coordination helper module, configuration artifacts, logging helper, and traceability metadata.
Traceability expectation	Implementation artifact traces to the FX Registry and Coordination Node, Registry and Coordination Role, FX Control Command Endpoint, FX Node Status Endpoint, FX Control Command, FX Command Acknowledgement, and FX Node Status.

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