

12.3 Register FX Logical Node

Go To Phase 0 Interaction Pattern Realization

The Register FX Logical Node pattern realizes implementation participant registration, capability reporting, or configuration-based participation in the Phase 0 implementation baseline.

Phase 0 may realize registration through a DDS-based registration message, repository configuration, startup metadata, a Node status report, or a combination of these mechanisms. The selected mechanism must identify the implementation participant, the FX logical Node or Node Role it realizes, supported DDS Topics, supported generated types, Runtime Plane participation, version context, and compatibility metadata.

Table 12-1: Register FX Logical Node implementation realization.

Realization Concern	Phase 0 Implementation Treatment
FX logical interaction pattern	Register FX Logical Node
Primary implementation participants	Registering implementation participant, registry, or coordination participant, where Phase 0 includes one
Primary Runtime Plane	FX Logical Control Plane
Supporting Runtime Planes	FX Logical Health and Observability Plane; FX Logical Audit and Provenance Plane, where registration supports review or evidence
Primary DDS Topics	Control.FX.ControlCommand; Health.FX.NodeStatus; or a registration Topic where Phase 0 defines one
Primary information	Node identity, Node Roles, supported Topics, supported generated types, version context, compatibility metadata
Expected processing outcome	The implementation baseline records the participant's declared role, capability, and compatibility context.
Logging and exception handling	Implementation participants log startup, registration success, registration warning, registration failure, and compatibility failure as described in the Developer Handbook.
Traceability expectation	Registration traces to the FX logical Node, Node Roles, supported Communication Endpoints, supported information structures, and the Phase 0 implementation participant.

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Last update: 2026/07/25 09:51

