12.2 Register FX Logical Node

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The Register FX Logical Node pattern allows an FX logical Node to announce its identity, roles, capabilities, supported endpoints, supported FX information definitions, supported Runtime Planes, lifecycle state, version context, and compatibility metadata.

The registering FX logical Node provides its FX logical Node identity, FX logical Node Roles, supported FX logical Communication Endpoints, supported FX logical information-structure versions, lifecycle state, and governance or compatibility metadata.

The registration interaction belongs primarily to the Logical Control Plane. It also supports the Logical Health and Observability Plane when registration includes operational state, and it supports the Logical Audit and Provenance Plane when the FX Demo records registration for review or Evidence.

Table 12-1: Register FX Logical Node interaction pattern.

Element	FX logical treatment
Primary Runtime Plane	Logical Control Plane
Producing FX Node Role	Registry participant or registering FX logical Node
Consuming FX Node Role	Registry and Coordination Role
Primary information	FX Node registration information
Supporting information	FX logical Node identity, Node Roles, supported endpoints, supported information definitions, lifecycle state, version metadata
Traceability expectation	Registration traces to FX logical Node identity, FX Node Roles, supported endpoints, supported information definitions, and compatibility metadata
Evidence expectation	Registration records support review of FX Node participation, capability advertisement, and compatibility context

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Last update: **2026/07/15 16:53**