

10.2 Register Node

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The Register Node pattern allows a [Logical Node](#) to announce its presence, identity, roles, capabilities, supported endpoints, supported Runtime Planes, and compatibility information.

A registering [Logical Node](#) provides its [Logical Node Identity](#), logical [Node Roles](#), supported [Logical Communication Endpoints](#), supported [Logical Data Structure Definitions](#), lifecycle state, version information, 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 system records registration as [Evidence](#) of participation.

Table 10-1: Register Node logical interaction pattern

Element	Logical treatment
Primary Runtime Plane	Logical Control Plane
Producing Logical Node Role	Registering Node
Consuming Logical Node Role	Registry, Directory, Control, or Coordination Node
Primary information	Node registration record
Supporting information	Logical Node Identity , Logical Node Roles , supported endpoints, lifecycle state, version metadata
Traceability expectation	Registration traces to Logical Node Identity , Node Roles , supported endpoints, and compatibility metadata.
Evidence expectation	Registration record supports later review of Node participation and capability advertisement.

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