

10.7 Acknowledge Control Command

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The Acknowledge Control Command pattern allows a [Logical Node](#) to report receipt, acceptance, rejection, completion, failure, or outcome of a [Logical Command](#).

A command-consuming [Logical Node](#) produces a Logical Acknowledgement. The acknowledgement identifies the original command, the acknowledging [Logical Node](#), the acknowledgement status, timestamp, reason, resulting lifecycle state, and provenance or [Evidence](#) reference.

The interaction belongs primarily to the [Logical Control Plane](#). It also supports the [Logical Health and Observability Plane](#) when the acknowledgement reports operational state, and the [Logical Audit and Provenance Plane](#) when the architecture records command outcome.

Table 10-6: Acknowledge Control Command logical interaction pattern

Element	Logical treatment
Primary Runtime Plane	Logical Control Plane
Producing Logical Node Role	Command Consumer , Managed Node, Worker Node, or Controlled Node
Consuming Logical Node Role	Command Producer , Control Node, Coordinator, or Operator-facing Node
Primary information	Logical Acknowledgement
Supporting information	Command identifier, acknowledgement status, reason, timestamp, resulting lifecycle state
Traceability expectation	Acknowledgement traces to the original command, acknowledging Logical Node , outcome, and related lifecycle state.
Evidence expectation	Acknowledgement record supports review of command handling and operational accountability.

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