

10.12 Logical Interaction Pattern Summary

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The Logical Interaction Patterns define reusable platform-independent ways for [Logical Nodes](#) to cooperate.

Table 10-11: Summary of Logical Interaction Patterns

Pattern	Primary logical purpose	Primary Runtime Plane
Register Node	Announce identity, roles, capabilities, endpoints, and compatibility information	Logical Control Plane
Report Node Status	Report lifecycle state, health, availability, degradation, failure, or recovery progress	Logical Health and Observability Plane
Publish Domain Information	Produce domain, analytical, lifecycle, validation, or derived information	Logical Data Plane
Subscribe to Domain Information	Receive domain, analytical, lifecycle, validation, or derived information	Logical Data Plane
Issue Control Command	Request or direct operational action	Logical Control Plane
Acknowledge Control Command	Report command receipt, acceptance, rejection, completion, failure, or outcome	Logical Control Plane
Request Policy Decision	Request governed access, disclosure, safeguarding, release, or handling decision	Logical Policy and Release Plane
Record Audit and Provenance	Preserve lineage, accountability, auditability, reconstruction, and review information	Logical Audit and Provenance Plane
Replay or Reconstruct Information	Reproduce, republish, or reconstruct selected information from preserved records	Logical Audit and Provenance Plane

These patterns do not exhaust all possible logical interactions. They define the core interaction vocabulary for this distributed, node-based Logical Architecture / PIM. Domain profiles specialise these patterns for specific financial Domains.

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