

12.14 Interaction Pattern Realization Summary

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The Phase 0 Implementation Profile realizes selected FX logical interaction patterns through implementation participants, DDS Topics, IDL structures, generated types, scripts, logging conventions, exception-handling conventions, audit/provenance conventions, and traceability records.

Table 12-12: Summary of Phase 0 interaction pattern realizations.

FX Logical Interaction Pattern	Primary DDS Topic or Topics	Primary Implementation Purpose
Register FX Logical Node	Control.FX.ControlCommand; Health.FX.NodeStatus; registration Topic where defined	Declare implementation participant identity, capability, version, and compatibility context.
Report FX Node Status	Health.FX.NodeStatus	Report implementation participant lifecycle state and operational condition.
Intake FX Transaction Candidate	Data.FX.TransactionCandidate	Publish candidate FX transaction information.
Validate FX Transaction Candidate	Data.FX.TransactionCandidate; Data.FX.ValidationResult	Validate candidate transaction information and publish validation outcome.
Interpret FX Transaction Semantics	Data.FX.ValidationResult; Data.FX.SemanticAssertion	Apply semantic context and publish a semantic assertion.
Establish or Update FX Contract State	Data.FX.SemanticAssertion; Data.FX.ContractState	Determine and publish contract state.
Compute FX Cash-Flow Obligations	Data.FX.ContractState; Data.FX.CashFlowObligation	Compute and publish cash-flow obligations.
Request FX Policy Decision	Policy.FX.PolicyDecision; selected data Topics	Evaluate policy constraints and publish policy decisions.
Release FX Information to Oversight Participant	Policy.FX.PolicyDecision; Policy.FX.ReleasePackage	Prepare and publish an authorized release package.
Record FX Audit and Provenance	Audit.FX.AuditRecord; Audit.FX.ProvenanceRecord	Record auditable information and lineage relationships.
Replay or Reconstruct FX Information	Audit.FX.ReplayRequest; Audit.FX.ReplayResult	Reconstruct or replay selected FX information.

The summary records Phase 0 interaction realizations only. Later development phases may extend, refine, supersede, or replace these realizations while preserving traceability to the applicable FX logical interaction patterns and implementation artifacts.

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