

12.8 Establish or Update FX Contract State

Go To Phase 0 Interaction Pattern Realization

The Establish or Update FX Contract State pattern realizes Phase 0 contract state determination.

The implementation participant performing the Contract State Management Role consumes validation and semantic interpretation outputs, applies the selected Phase 0 contract-state logic, produces FX Contract State, and publishes it to the contract state DDS Topic.

Table 12-6: Establish or Update FX Contract State implementation realization.

Realization Concern	Phase 0 Implementation Treatment
FX logical interaction pattern	Establish or Update FX Contract State
Primary implementation participant	Contract state implementation participant
Primary Runtime Plane	FX Logical Data Plane
Supporting Runtime Plane	FX Logical Audit and Provenance Plane
Input DDS Topics	Data.FX.ValidationResult; Data.FX.SemanticAssertion; transaction-related Topics as required by Phase 0
Output DDS Topic	Data.FX.ContractState
Primary IDL / generated types	FxValidationResult; FxSemanticAssertion; FxContractState
Expected processing outcome	Implementation publishes applicable FX Contract State, along with prior state, target state, transition context, producing participant, and timestamp, where Phase 0 requires it.
Logging and exception handling	Missing input, unsupported transition, transition failure, publication failure, and retry conditions follow the logging and exception-handling baseline.
Audit and provenance expectation	Contract state records preserve input references, transition rule context, producing participant, timestamp, and state outcome.
Traceability expectation	Interaction traces to FX Contract State Node, Contract State Management Role, FX Contract State Endpoint, FX Contract State, and implementation participant.

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