

12.6 Validate FX Transaction Candidate

Go To Phase 0 Interaction Pattern Realization

The Validate FX Transaction Candidate pattern realizes structural validation of candidate FX transaction information.

The implementation participant performing the Structural Validation Role subscribes to the candidate transaction DDS Topic, validates the received generated type instance against Phase 0 validation expectations, produces an FX Validation Result, and publishes that result to the validation result DDS Topic.

Table 12-4: Validate FX Transaction Candidate implementation realization.

Realization Concern	Phase 0 Implementation Treatment
FX logical interaction pattern	Validate FX Transaction Candidate
Primary implementation participant	Validation implementation participant
Primary Runtime Plane	FX Logical Data Plane
Supporting Runtime Plane	FX Logical Audit and Provenance Plane
Input DDS Topic	Data.FX.TransactionCandidate
Output DDS Topic	Data.FX.ValidationResult
Primary IDL / generated types	FxTransactionCandidate; FxValidationResult
Expected processing outcome	Implementation publishes validation status, validation messages, input reference, rule version, producing participant, and timestamp.
Logging and exception handling	Validation errors, validation failures, processing exceptions, publication failures, and retry conditions follow the logging and exception-handling baseline.
Audit and provenance expectation	Validation records preserve input reference, validation rule version, producing participant, timestamp, and validation outcome.
Traceability expectation	Interaction traces to FX Validation Node, Structural Validation Role, FX Validation Result Endpoint, FX Transaction Candidate, FX Validation Result, and implementation participant.

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