

12.9 Compute FX Cash-Flow Obligations

Go To Phase 0 Interaction Pattern Realization

The Compute FX Cash-Flow Obligations pattern realizes Phase 0 computation of projected or derived FX cash-flow obligations.

The implementation participant performing the Cash-Flow Computation Role consumes FX Contract State and related context, applies the selected Phase 0 calculation approach, produces FX Cash-Flow Obligation, and publishes it to the cash-flow obligation DDS Topic.

Table 12-7: Compute FX Cash-Flow Obligations implementation realization.

Realization Concern	Phase 0 Implementation Treatment
FX logical interaction pattern	Compute FX Cash-Flow Obligations
Primary implementation participant	Cash-flow computation implementation participant
Primary Runtime Plane	FX Logical Data Plane
Supporting Runtime Plane	FX Logical Audit and Provenance Plane
Input DDS Topics	Data.FX.ContractState; semantic or transaction-related Topics as required by Phase 0
Output DDS Topic	Data.FX.CashFlowObligation
Primary IDL / generated types	FxContractState; FxCashFlowObligation
Expected processing outcome	Implementation publishes projected or derived cash-flow obligation information with input reference, calculation context, model reference where applicable, producing participant, and timestamp.
Logging and exception handling	Missing input, unsupported contract state, calculation error, publication failure, and retry conditions follow the logging and exception-handling baseline.
Audit and provenance expectation	Computation records preserve input references, calculation context, model or rule version, producing participant, timestamp, and output reference.
Traceability expectation	Interaction traces to FX Cash-Flow Computation Node, Cash-Flow Computation Role, FX Cash-Flow Obligation Endpoint, FX Cash-Flow Obligation, and implementation participant.

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