

# 12.8 Compute FX Cash-Flow Obligations

## Go To FX Demo Logical Interaction Patterns

The Compute FX Cash-Flow Obligations pattern produces projected or derived monetary obligations from the [FX Contract State](#) and related context.

The [FX Cash-Flow Computation Node](#) consumes [FX Contract State](#), [FX Semantic Assertions](#), applicable transaction information, model references, and calculation context. It produces [FX Cash-Flow Obligations](#) and records the provenance of computations.

The interaction belongs primarily to the [Logical Data Plane](#). It also supports the [Logical Audit and Provenance Plane](#) because computed obligations require [Traceability](#) to input contract state, semantic assertions, model references, calculation context, producing [Node](#), timestamp, and [Evidence](#) expectations.

**Table 12-7:** Compute FX Cash-Flow Obligations interaction pattern.

| Element                  | FX logical treatment                                                                                                                                                                                    |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Primary Runtime Plane    | <a href="#">Logical Data Plane</a>                                                                                                                                                                      |
| Producing FX Node Role   | <a href="#">Cash-Flow Computation Role</a>                                                                                                                                                              |
| Consuming FX Node Role   | <a href="#">Policy Evaluation Role</a> , <a href="#">Release Control Role</a> , <a href="#">Audit Recording Role</a> , <a href="#">Provenance Recording Role</a>                                        |
| Primary endpoint         | <a href="#">FX Cash-Flow Obligation Endpoint</a>                                                                                                                                                        |
| Primary information      | <a href="#">FX Cash-Flow Obligation</a>                                                                                                                                                                 |
| Supporting information   | Contract state reference, semantic assertion reference, model reference, calculation context, producing <a href="#">Node</a> , timestamp                                                                |
| Traceability expectation | <a href="#">FX Cash-Flow Obligation</a> traces to <a href="#">FX Contract State</a> , semantic assertion, calculation context, model version, producing <a href="#">Node</a> , and provenance reference |
| Evidence expectation     | Computation records support review of obligation derivation and reproducibility                                                                                                                         |

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