

Cash-Flow Computation Role

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Discussion

The Cash-Flow Computation Role identifies responsibility for computing projected or derived FX cash-flow obligations from FX contract state and related transaction information.

This role includes consuming FX Contract State, semantic assertions, calculation context, model references, and applicable transaction information; producing FX Cash-Flow Obligations; and preserving computation provenance.

The Cash-Flow Computation Role participates primarily in the FX Logical [Data Plane](#). It also supports the FX Logical [Audit and Provenance Plane](#) when computation records preserve input references, model version, calculation context, producing [Node](#), timestamp, and [evidence](#) expectations.

Definition

responsible for computing projected or derived FX cash-flow obligations

Source

Specialization of Logical Node Role from [Part 2: Distributed Node-Based Logical Architecture](#), Section 6.4, Logical Assertion from [Part 2: Distributed Node-Based Logical Architecture](#), Section 8.8, and [Interpretation](#) from [Part 1: Conceptual Architecture](#), Section 9.5; generalised from ACTUS cash-flow and analytical computation material in the original FX Demo [Reference Architecture](#).

Note

The Cash-Flow Computation Role defines logical computation responsibility. It does not prescribe the ACTUS library, calculation engine, programming language, model implementation, database, process, service, or container.

Example

The FX Cash-Flow Computation Node performs the Cash-Flow Computation Role by consuming FX Contract State and producing FX Cash-Flow Obligations with provenance for the computation.

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