

3.1 Traceability to SIP-RA

Go To Top

SIP-RA supplies the parent architecture discipline for structured information processing systems. This part applies and specialises that discipline for the [Foreign Exchange Domain](#).

The FX Demo Logical Profile preserves the SIP-RA emphasis on structured information, explicit interfaces, separation of concerns, [traceable interpretation](#), governed processing, reviewability, and implementation independence. It applies those concerns by defining FX-specific logical [Nodes](#), logical [Communication Endpoints](#), logical information structures, logical [Runtime Planes](#), logical interaction patterns, logical governance relationships, and logical [Traceability](#) relationships.

Table 3-1: SIP-RA concerns addressed by the FX Demo Logical Profile.

SIP-RA concern	Part 3 FX logical treatment
Structured information processing	Defines FX logical information structures, including FX Transaction Candidate , FX Validation Result , FX Contract State , FX Cash-Flow Obligation , FX Policy Decision , FX Audit Record , and FX Provenance Record .
Explicit interfaces	Defines FX logical Communication Endpoints for intake, validation, interpretation, contract state, cash-flow obligations, policy decisions, release packages, audit, provenance, status, control, and replay.
Separation of concerns	Preserves FX-specific separation among Logical Control Plane , Logical Data Plane , Logical Health and Observability Plane , Logical Policy and Release Plane , and Logical Audit and Provenance Plane .
Traceable interpretation	Defines Traceability from FX input records through validation, semantic interpretation, contract state, cash-flow computation, policy decisions, audit, provenance, and Evidence expectations.
Governed processing across boundaries	Defines FX policy and release interactions before external oversight participants receive released information.
Audit and review	Defines FX audit, provenance, replay, reconstruction, and Evidence expectations at the logical profile level.
Implementation independence	Avoids binding the FX Demo Logical Profile to DDS , IDL , QoS , Python , Kubernetes , K3s , Docker , RTI Connex DDS , Crucible , Protocol Buffers , REST , RPC , or other implementation mechanisms.

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