

13.5 Data Plane QoS Profile

Go To Phase 0 QoS Profile Model

The Data Plane QoS profile supports FX transaction, validation, semantic, contract state, and cash-flow information exchange.

Data Plane communication must support structured FX information flow among implementation participants. It must provide enough reliability and ordering to demonstrate the Phase 0 happy path and enough [Traceability](#) to support audit, provenance, replay, and later [Evidence](#) planning.

Table 13-2: Data Plane QoS profile.

QoS Concern	Phase 0 Treatment
Runtime Plane	FX Logical Data Plane
Example DDS Topics	Data.FX.TransactionCandidate; Data.FX.ValidationResult; Data.FX.SemanticAssertion; Data.FX.ContractState; Data.FX.CashFlowObligation
Communication purpose	Exchange FX transaction, validation, semantic interpretation, contract state, and cash-flow obligation information
Reliability expectation	Reliable delivery for information that drives downstream processing in Phase 0
Durability expectation	Sufficient durability to support late-joining subscribers or replay-oriented review where Phase 0 requires it
History expectation	Retain enough samples to support expected downstream consumption and Phase 0 demonstration review
Ordering expectation	Preserve ordering where transaction lifecycle progression or downstream processing depends on sequence
Liveliness expectation	Support detection of unavailable publishers or subscribers where Phase 0 requires it
Compatibility expectation	Publishers and subscribers use compatible QoS profiles for each Data Plane Topic
Traceability expectation	QoS profile traces to corresponding FX logical Communication Endpoint , FX logical information structure, and FX Logical Data Plane

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