

13.8 Audit and Provenance Plane QoS Profile

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The Audit and Provenance Plane QoS profile supports audit records, provenance records, replay requests, replay results, lineage, reconstruction, and [Evidence](#)-supporting information.

Audit and provenance communication must preserve information needed for review, accountability, replay, reconstruction, and later evidence planning. Phase 0 must treat audit and provenance information as more than ordinary logs when the information supports [Traceability](#) or review.

Table 13-5: Audit and Provenance Plane QoS profile.

QoS Concern	Phase 0 Treatment
Runtime Plane	FX Logical Audit and Provenance Plane
Example DDS Topics	Audit.FX.AuditRecord; Audit.FX.ProvenanceRecord; Audit.FX.ReplayRequest; Audit.FX.ReplayResult
Communication purpose	Exchange audit records, provenance records, replay requests, replay results, lineage, reconstruction context, and evidence-supporting information
Reliability expectation	Reliable delivery for audit, provenance, replay, and reconstruction information where Phase 0 requires reviewability
Durability expectation	Sufficient durability to support late-joining audit, provenance, replay, or review participants where Phase 0 requires it
History expectation	Retain enough audit and provenance history to support demonstration review, replay, and reconstruction
Ordering expectation	Preserve ordering where lineage, reconstruction, or audit review depends on event sequence
Liveliness expectation	Support detection of unavailable audit, provenance, or replay participants where Phase 0 requires it
Compatibility expectation	Audit, provenance, replay, and reconstruction participants use compatible QoS profiles for relevant Topics
Traceability expectation	QoS profile traces to audit, provenance, replay, and reconstruction Communication Endpoints and to FX Logical Audit and Provenance Plane

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