

13.6 Health and Observability Plane QoS Profile

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The Health and Observability Plane QoS profile supports operational condition reporting.

Health and Observability Plane communication must allow implementation participants to report lifecycle state, availability, warnings, degradation, failure, recovery, and status reasons. The Phase 0 implementation uses this information to observe Node condition and support later deployment, testability, and [Evidence](#) planning.

Table 13-3: Health and Observability Plane QoS profile.

QoS Concern	Phase 0 Treatment
Runtime Plane	FX Logical Health and Observability Plane
Example DDS Topic	Health.FX.NodeStatus
Communication purpose	Report lifecycle state, health condition, availability, warning, degradation, failure, recovery, timestamp, and status reason
Reliability expectation	Reliable or best-effort delivery as selected by Phase 0 for status reporting; selected choice must be documented
Durability expectation	Sufficient durability to allow status observers to understand current or recent Node condition where Phase 0 requires it
History expectation	Retain recent status reports needed for demonstration, troubleshooting, and review
Ordering expectation	Preserve order of status changes for a reporting Node where lifecycle sequence matters
Liveliness expectation	Support detection of unavailable or silent participants where Phase 0 requires it
Compatibility expectation	Status publishers and status consumers use compatible QoS profiles for Node status Topic
Traceability expectation	QoS profile traces to FX Node Status Communication Endpoint , FX Node Status, and FX Logical Health and Observability Plane

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