

13.4 Control Plane QoS Profile

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The Control Plane QoS profile supports operational coordination, commands, acknowledgments, registration, retry, recovery, and status-request interactions.

Control Plane communication must prioritize clear delivery semantics and command accountability. A command-producing participant must know whether a command was received, accepted, rejected, completed, failed, or timed out according to the Phase 0 command and acknowledgment conventions.

Table 13-1: Control Plane QoS profile.

QoS Concern	Phase 0 Treatment
Runtime Plane	FX Logical Control Plane
Example DDS Topics	Control.FX.ControlCommand; Control.FX.CommandAcknowledgement
Communication purpose	Operational coordination, command exchange, acknowledgment, retry, pause, resume, stop, restart, status request, and recovery coordination
Reliability expectation	Reliable delivery where Phase 0 requires command accountability
Durability expectation	Sufficient durability to support late-joining participants where Phase 0 requires command or acknowledgment review
History expectation	Retain enough command and acknowledgment history to support Phase 0 review and troubleshooting
Ordering expectation	Preserve command order where command sequence affects Node behavior
Liveliness expectation	Support detection of unavailable command-producing or command-consuming participants where Phase 0 requires it
Compatibility expectation	Command producers and consumers use compatible QoS profiles for relevant command and acknowledgment Topics
Traceability expectation	QoS profile traces to FX Control Command Endpoint, FX Control Command, FX Command Acknowledgement, and FX Logical Control Plane

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