

9.14 FX Control Command Topic Mapping

Go To Mapping from FX Logical Communication Endpoints to DDS Topics

The FX Control Command [Endpoint](#) maps to the [DDS](#) Topic that carries the Phase 0 implementation representation of FX Control Command and FX Command Acknowledgement information.

Phase 0 may use separate command and acknowledgement DDS Topics when the Implementation Profile requires clearer directionality, simpler filtering, or cleaner audit/provenance recording. When Phase 0 uses separate Topics, both Topics realize the FX Control Command Endpoint because the logical endpoint covers command exchange and acknowledgement exchange.

Table 9-11: FX Control Command Endpoint to DDS Topic mapping.

Mapping Concern	Phase 0 Implementation Treatment
FX logical Communication Endpoint	FX Control Command Endpoint
DDS Topic	Control.FX.ControlCommand
Optional acknowledgement DDS Topic	Control.FX.CommandAcknowledgement
Primary information structures	FX Control Command; FX Command Acknowledgement
IDL structures / generated types	Phase 0 representations of the FX Control Command and the FX Command Acknowledgement
Producing Node Roles	Registry and Coordination Role; authorized command-producing roles
Consuming Node Roles	Command-consuming implementation participants; Registry and Coordination Role; Audit Recording Role
Primary Runtime Plane	FX Logical Control Plane
Supporting Runtime Planes	FX Logical Health and Observability Plane; FX Logical Audit and Provenance Plane
QoS profile family	Control Plane QoS profile
Traceability expectation	DDS Topic traces to the FX Control Command Endpoint, the FX Control Command, and the FX Command Acknowledgement.

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