

21.5 Communication Endpoint Mapping Requirements

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This section identifies the normative requirements established for mapping FX logical Communication Endpoints to Phase 0 DDS Topics. The canonical requirement statements are maintained in [Annex D: Requirements, Part 4, Section 21.5](#).

Table 21-4: Communication endpoint mapping requirements.

Requirement ID	Statement
P4-REQ-21-5-001	The Phase 0 Implementation Profile / PSM SHALL map selected FX logical Communication Endpoints to DDS Topics.
P4-REQ-21-5-002	Each DDS Topic mapping SHALL identify the FX logical Communication Endpoint it realises.
P4-REQ-21-5-003	Each DDS Topic mapping SHALL identify the FX logical information structure carried by the endpoint.
P4-REQ-21-5-004	Each DDS Topic mapping SHALL identify the IDL structure and generated type used for Phase 0 exchange.
P4-REQ-21-5-005	Each DDS Topic mapping SHALL identify the producing FX logical Node or Node Role.
P4-REQ-21-5-006	Each DDS Topic mapping SHALL identify the consuming FX logical Node or Node Role.
P4-REQ-21-5-007	Each DDS Topic mapping SHALL identify the Runtime Plane or Runtime Planes associated with the exchange.
P4-REQ-21-5-008	Each DDS Topic mapping SHALL identify the QoS profile or QoS profile family used for the topic.
P4-REQ-21-5-009	Each DDS Topic mapping SHALL identify the applicable governance, versioning, and compatibility expectations.
P4-REQ-21-5-010	Each DDS Topic mapping SHALL preserve traceability to the Part 3 FX logical Communication Endpoint.
P4-REQ-21-5-011	DDS Topics SHALL NOT redefine FX logical Communication Endpoints.

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