

21.9 QoS Profile Requirements

Go To Phase 0 Implementation Requirements

This section identifies the normative requirements established for the Phase 0 QoS Profile Model. The canonical requirement statements are maintained in [Annex D: Requirements, Part 4, Section 21.9](#).

Table 21-8: QoS profile requirements.

Requirement ID	Statement
P4-REQ-21-9-001	The Phase 0 Implementation Profile / PSM SHALL define a Phase 0 QoS Profile Model.
P4-REQ-21-9-002	Each QoS profile mapping SHALL identify the Runtime Plane or Runtime Planes it supports.
P4-REQ-21-9-003	Each QoS profile mapping SHALL identify the DDS Topic or Topic family that uses the profile.
P4-REQ-21-9-004	Each QoS profile mapping SHALL identify the communication purpose of the profile.
P4-REQ-21-9-005	Each QoS profile mapping SHALL identify the expected reliability behavior.
P4-REQ-21-9-006	Each QoS profile mapping SHALL identify the expected durability behavior.
P4-REQ-21-9-007	Each QoS profile mapping SHALL identify the expected history behavior.
P4-REQ-21-9-008	Each QoS profile mapping SHALL identify the expected ordering behavior.
P4-REQ-21-9-009	Each QoS profile mapping SHALL identify the expected liveliness or availability behavior.
P4-REQ-21-9-010	Each QoS profile mapping SHALL identify publisher and subscriber compatibility expectations.
P4-REQ-21-9-011	Each QoS profile mapping SHALL identify the configuration artifact that defines the profile.
P4-REQ-21-9-012	Each QoS profile mapping SHALL preserve traceability to the applicable FX logical Communication Endpoint and Runtime Plane.
P4-REQ-21-9-013	QoS profiles SHALL NOT redefine Runtime Planes, FX logical Communication Endpoints, FX logical information structures, or FX logical interaction patterns.

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