

13.3 QoS Profile Mapping Principles

Go To Phase 0 QoS Profile Model

The Phase 0 Implementation Profile applies the following principles when mapping [DDS](#) Topics to QoS profiles.

Each QoS profile mapping identifies:

- [Runtime Plane](#) or Runtime Planes it supports;
- DDS Topic or Topic family that uses the profile;
- Communication purpose of the profile;
- Expected reliability behavior;
- Expected durability behavior;
- Expected history behavior;
- Expected ordering behavior;
- Expected liveliness or availability behavior;
- Compatibility expectations for publishers and subscribers;
- Configuration artifact that defines the profile; and
- [Traceability](#) relationship to FX logical [Communication Endpoint](#) and Runtime Plane.

The QoS profile mapping does not require production-grade QoS maturity in Phase 0. It defines the selected communication behavior needed for the Phase 0 demonstration baseline.

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