

13.2 QoS Profile Purpose

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Phase 0 uses QoS profiles to make communication behavior explicit.

A QoS profile identifies the communication behavior expected for a selected [Runtime Plane](#) or Topic family. It allows implementation participants to use consistent settings for reliability, durability, history, ordering, liveliness, deadlines, resource limits, and related [DDS](#) concerns where Phase 0 requires those concerns.

The QoS Profile Model supports:

- Consistent DDS behavior across implementation participants;
- [Traceability](#) from Runtime Plane purpose to communication behavior;
- Review of Topic compatibility between publishers and subscribers;
- Repeatable configuration of DDS participants, publishers, subscribers, writers, and readers;
- Later deployment and testability planning; and
- [Evidence](#) planning for communication behavior.

The Phase 0 QoS Profile Model defines only the QoS discipline needed for the Phase 0 implementation baseline. Later development phases may extend, refine, supersede, or replace these profiles.

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