

DDS Quality of Service (DDS QoS)

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Discussion

DDS Quality of Service (DDS QoS) refers to middleware-level policies that control data distribution behavior in a Data Distribution Service implementation.

DDS QoS policies govern behavior such as reliability, durability, liveness, history, resource limits, deadlines, latency budgets, ownership, destination order, lifespan, time-based filtering, partitions, and presentation.

In the Financial Systems Archetype document set, DDS QoS falls under implementation- and platform-specific mapping concerns. DDS QoS does not define the Logical Architecture / PIM, logical Nodes, logical Communication Endpoints, logical information structures, or logical Runtime Planes. An implementation profile maps selected logical concerns to DDS QoS policies when DDS serves as the selected communication middleware.

Definition

middleware-level policy set that controls Data Distribution Service data distribution behavior among DDS participants, topics, writers, readers, and related entities

Source

Generalised from the Object Management Group Data Distribution Service specification and its use as an implementation mapping concern in [Part 4: Phase 0 Implementation Profile / PSM](#).

Note

DDS QoS is not Internet QoS, a logical Communication Endpoint, a Runtime Plane, a data structure, a governance rule, or an evidence model.

Example

Part 4 may map an FX Node Status Endpoint to a DDS Topic with reliability, history, deadline, liveness, and durability policies appropriate for the selected implementation profile.

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