부록: OMG QoS 요약

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| QoS 명칭 | 설명 | RxO[[1]](#footnote-1) | 대상 엔티티[[2]](#footnote-2) |
| **HistoryQosPolicy** | |  | | --- | | Controls how much data to store and how stored data is managed for the DataWriter/Reader | |  | T,R,W |
| **LifespanQosPolicyLifespanQosPolicy** | |  | | --- | | Specifies how long DDS consider data sent by a user application to be valid | |  | T,W |
| **OwnershipQosPolicy** | |  | | --- | | Specifies if a DataReader can receive new samples for an instance of data from multiple DataWriters at the same time | | Yes | T,R,W |
| **OwnershipStrengthQosPolicy** | |  | | --- | | Specifies strength used to arbitrate among multiple Writers of same instance | |  | W |
| **WriterDataLifecycleQosPolicy** | |  | | --- | | Controls how a DataWriter handles the lifecycle of the instances that it is registered to manage | |  | W |
| **ReaderDataLifecycleQosPolicy** | |  | | --- | | Controls how a DataReader manages the lifecycle of the data that it has received | |  | R |
| **PresentationQosPolicy** | |  | | --- | | Controls how DDS presents data received by an application to the DataReaders of the data | | Yes | P,S |
| **TransportPriorityQosPolicy** | |  | | --- | | Specifies on a per-DataWriter basis that the data sent by that DataWriter is of a different priority | |  | T,W |
| **UserDataQosPolicy** | |  | | --- | | Attaches arbitrary application data (a buffer of bytes) to discovery meta-data | |  | R,W |
| **TopicDataQosPolicy** |  | T |
| **GroupDataQosPolicy** |  | P,S |
| **LatencyBudgetQosPolicy** | |  | | --- | | Suggests to the middleware how much time is allowed to deliver data | |  | T,R,W |
| **DeadlineQosPolicy** | |  | | --- | | Maximum time between data samples | | Yes | T,R,W |
| **TimeBasedFilterQosPolicy** | |  | | --- | | Sets minimum time period before new data for an instance is provided to a DataReader. | |  | R |
| **EntityFactoryQosPolicy** | |  | | --- | | Controls Entity behavior as a factory for other entities (i.e., if child entities are created enabled) | |  | F,D,P,S |
| **PartitionQosPolicy** | |  | | --- | | Adds string identifiers for matching DataWriters and DataReaders for the same DDS topic | |  | P,S |
| **ReliabilityQosPolicy** | |  | | --- | | Indicates whether samples lost by the network should be repaired by the middleware | | Yes | T,R,W |
| **LivelinessQosPolicy** | |  | | --- | | Controls mechanism that allows Readers to detect when matching Writers become disconnected/dead | | Yes | T,R,W |
| **DurabilityQosPolicy** | |  | | --- | | Specifies if DDS will store and deliver previously published data to new/late-joining Readers | | Yes | T,R,W |
| **ResourceLimitsQosPolicy** | |  | | --- | | Limits amount of memory allocated for cached data | |  | T,R,W |
| **DurabilityServiceQosPolicy** | |  | | --- | | Configures external Persistence Service for Writers with PERSISTENT or TRANSIENT Durability | |  | T,W |
| **DestinationOrderQosPolicy** | |  | | --- | | Controls how RTI deals with data from multiple DataWriters for the same topic; "by reception timestamp" or "by source timestamp" | | Yes | T,R,W |

1. RxO 가 “Yes”인 경우 publishing측과 subscribing 측은 반듯이 QoS가 호환성이 있어야 함을 의미한다. “No”인 경우 QoS 가 publishing측과 subscribing 양측에 설정은 되어야 하나 그 값은 서로 독립적임을 의미한다. “N/A”인 경우 이 QoS 는 publishing측과 subscribing측 중 어느 한 쪽에만 정의되어 됨을 의미하며 호환성과 관계가 없음을 나타낸다. [↑](#footnote-ref-1)
2. F=DomainParticipantFactory, D=DomainParticipant, T=Topic, P=Publisher, W=DataWriter, S=Subscriber, R=DataReader [↑](#footnote-ref-2)