

# RESOURCE\_LIMITS QoS Parameter

[return to the Quality of Service \(QoS\) Parameters](#)

The RESOURCE\_LIMITS policy controls the resources that the Service can use in order to meet the requirements imposed by the application and other [QoS](#) settings.

If the DataWriter objects are communicating samples faster than they are ultimately taken by the DataReader objects, the middleware will eventually hit against some of the QoS-imposed resource limits. Note that this may occur when just a single DataReader cannot keep up with its corresponding DataWriter. The behavior in this case depends on the setting for the RELIABILITY QoS. If reliability is BEST\_EFFORT then the Service is allowed to drop samples. If the reliability is RELIABLE, the Service will block the DataWriter or discard the sample at the DataReader in order not to lose existing samples.

The constant LENGTH\_UNLIMITED may be used to indicate the absence of a particular limit. For example setting max\_samples\_per\_instance to LENGTH\_UNLIMITED will cause the middleware to not enforce this particular limit.

The setting of RESOURCE\_LIMITS max\_samples must be consistent with the max\_samples\_per\_instance. For these two values to be consistent they must verify that `max_samples >= max_samples_per_instance`.

The setting of RESOURCE\_LIMITS max\_samples\_per\_instance must be consistent with the HISTORY depth. For these two QoS to be consistent, they must verify that `depth <= max_samples_per_instance`.

An attempt to set this policy to inconsistent values when an entity is created or via a set\_qos operation will cause the operation to fail.

Source: [DDS 1.4 Spec](#)

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