

F.21 Writer Data Lifecycle

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The `WRITER_DATA_LIFECYCLE` [policy](#) controls the behavior of the `DataWriter` with regards to the lifecycle of the data-[instances](#) it manages, that is, the data-instances that have been either explicitly registered with the `DataWriter` using the register operations or implicitly by directly writing the data.

The `autodispose_unregistered_instances` flag controls the behavior when the `DataWriter` unregisters an instance by means of the `unregister` operations:

- The setting `autodispose_unregistered_instances = TRUE` causes the `DataWriter` to dispose the instance each time it is unregistered. The behavior is identical to explicitly calling one of the `dispose` operations on the instance prior to calling the `unregister` operation.
- The setting `autodispose_unregistered_instances = FALSE` will not cause this automatic disposition upon unregistering. The [application](#) can still call one of the `dispose` operations prior to unregistering the instance and accomplish the same effect. There are consequences of disposing and unregistering instances.

Note:

The deletion of a `DataWriter` automatically unregisters all data-instances it manages. Therefore the setting of the `autodispose_unregistered_instances` flag will determine whether instances are ultimately disposed when the `DataWriter` is deleted either directly by means of the `Publisher::delete_datawriter` operation or indirectly as a consequence of calling `delete_contained_entities` on the [Publisher](#) or the `DomainParticipant` that contains the `DataWriter`.

Source: [DDS 1.4 Spec](#)

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Last update: **2021/10/04 13:40**

