

# Durability

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**Durability** is responsible for maintaining historical data between services and providing historical data to late joining applications. Specifies if [Samples](#) should outlive their [Data Writers](#) for late joiners. The longer a sample lives the greater the overhead passed to the [Data Distribution Service \(DDS\)](#) becomes as it moves from dropping samples, to keeping them in shared memory, and to writing them to hard disk. Provided variants include:

- **Volatile**  
No need to keep Samples for late joining [Data Reader](#).
- **Transient Local**  
Data [instance](#) availability for late joining data reader is tied to the DataWriter availability.
- **Transient**  
Data sample [availability](#) outlives the data writer.
- **Persistent**  
Data sample availability outlives system restarts.

Source: [OpenSplice Glossary](#)

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