

Appendix A: DDS Family of Standards

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About the Family of Standards

The [data_distribution_service_dds](#) Family of Standards covers a wide range of different aspects of DDS usage. The core set of standards considered essential to the use of DDS are referred to as *Core*. It is possible to use DDS without using a standard Application Programming Interface ([API](#)) but the API Standards allow for the [portability](#) of the code written using different vendors' software. For example, if the Java 5 API is used to develop software with a particular vendor, the software should move with only minor modifications to use another vendors product.

DDS Standards

- [Core DDS Standards](#)
 - [OMG: Data Distribution Service \(DDS\)](#)
 - [OMG: DDS Data Local Reconstruction Layer \(DDS-DLRL\)](#)
 - [OMG: DDS Interoperability Wire Protocol \(DDSI-RTPS\)](#)
 - [OMG: Extensible and Dynamic Topic Types for DDS \(DDS-XTypes\)](#)
 - [OMG: DDS Security \(DDS-SECURITY\)](#)
 - [OMG: Interface Definition Language \(IDL\)](#)
- 2. [APIs for DDS](#)
 - [OMG: ISO/IEC C++ 2003 Language DDS PSM \(DDS-PSM-Cxx\)](#)
 - [OMG: Java 5 Language PSM for DDS \(DDS-Java\)](#)
 - [Other language APIs](#)
- 3. [Extensions for DDS](#)
 - [OMG: RPC Over DDS \(DDS-RPC\)](#)
 - [OMG: DDS Consolidated XML Syntax \(DDS-XML\)](#)
- 4. [Gateways for DDS](#)
 - [OMG: Web-Enabled DDS \(DDS-WEB\)](#)
 - [OMG: OPC-UA/DDS Gateway \(DDS-OPCUA\)](#)
 - [OMG: DDS For Extremely Resource Constrained Environments \(DDS-XRCE\)](#)
- 5. [Work-in-Progress \(WiP\) for DDS](#)
 - [OMG: DDS-Time Sensitive Networks \(DDS-TSN\)](#)
 - [OMG: DDS Consolidated JSON Syntax \(DDS-JSON\)](#)
 - [OMG: RTPS TCP/IP PSM for DDS Interoperability](#)
 - [OMG: IDL4 to Java Language Mapping](#)
 - [OMG: IDL4 to C# Language Mapping](#)

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