

OMG: DDS-Time Sensitive Networks (DDS-TSN)

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Table 1: Data sheet for DDS-Time Sensitive Networks (DDS-TSN)

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| Title | DDS-Time Sensitive Networks |
| Acronym | DDS-TSN |
| Version | 1.0 beta2 |
| OMG Document Number | ptc/2020-05-02 |
| Release Date | September 2020 |
| About RFP | https://www.omg.org/techprocess/meetings/schedule/DDS-TSN_RFP.html |
| Document | https://www.omg.org/spec/DDS-JSON/1.0/Beta2/PDF |

Note: The following is an excerpt from the actual document. It is provided here as a convenience and is not authoritative. Refer to the original document as the authoritative reference.

Scope

This [rfp](#) solicits submissions identifying and defining mechanisms to achieve integration between [data_distribution_service_dds](#) infrastructures and [tsn](#) networks. The [goal](#) is to provide all artifacts needed to support the design, deployment and execution of DDS systems over TSN networks.

The DDS-TSN integration specification sought shall realize the following functionality:

- Define mechanisms that provide the information required for TSN-enabled networks to calculate any network schedules needed to deploy a DDS system.
- Identify those parts of the set of the [IEEE](#) TSN standards that are relevant for a [\[DDS-TSN\]](#) integration and indicate how the DDS aspects are mapped onto, or related to, the associated TSN aspects. Examples include TSN standardized information models for calculating system-wide schedules and configuring network equipment.
- Identify and specify necessary extensions to the [\[DDSI-RTPS\]](#) and [\[DDS-SECURITY\]](#) specifications, if any, to allow DDS infrastructures to use TSN enabled networks as their transport while maintaining [interoperability](#) between different DDS implementations.
- Identify and specify necessary extensions to the [DDS](#) and [\[DDS-XML\]](#) specification, if any, to allow declaration of TSN-specific properties or quality of service attributes.

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