

# DDS Real-Time Communication Plugin

The Connex DDS for MagicDraw plugin is an environment for editing [Connex DDS](#) models in a visual way.

## Background

The OMG Data-Distribution Service for Real-Time Systems (DDS) is the first open international middleware standard directly addressing publish-subscribe communications for real-time and embedded systems.

RTI Connex DDS Professional, based on a connectivity databus, offers a robust framework for developing and integrating mission critical systems. It is fully compliant with the OMG DDS for Real-Time Systems standard.

## Advantages

With the Connex DDS for MagicDraw plugin, you can model the DDS-related aspects of your system using UML, extended by a DDS-specific profile. This offers the following advantages:

- The overall system (from requirements to functional applications) will have a unified representation, providing a common view of the system and a single source of truth.
- You can use an already familiar modeling language.
- The DDS entities and their relationships are displayed visually in a graphical notation.

The DDS Real-Time Communication Plugin documentation consists of the following sections:

- [Introduction](#)
- [Installation](#)
- [Getting started](#)
- [Simulation with Simulink](#)
- [Home Control Example](#)
- [Validation Suite](#)