

OpenSplice DDS Tester datasheet

Version 1.0 - September 11th, 2026



ZETTASCALE TECHNOLOGIES Les Algorithmes 91190, Saint Aubin France

• **Web:** zettascale.tech • **Email:** contact@zettascale.tech • **LinkedIn:** [@zettascaletech](https://www.linkedin.com/company/zettascaletech)



Innovation shapes the vision.

Hard work brings it to life.

Determination turns it into success."

— ZettaScale Technology

About ZettaScale

ZettaScale's mission is to bring to every connected human and machine the unconstrained freedom to communicate, compute and store — anywhere, at any scale, efficiently and securely. We strive for excellence as engineers and humans -- we firmly believe that we can't separate "the engineer" from "the human". As such we embrace and promote the Seven Knightly Virtues of Courage, Justice, Mercy, Generosity, Faith, Nobility and Hope.



Contents

Overview	1
Automated Testing and Debugging	1
Key Features.....	2
Benefits	2
Support/Maintenance	3
References and For More Information	3

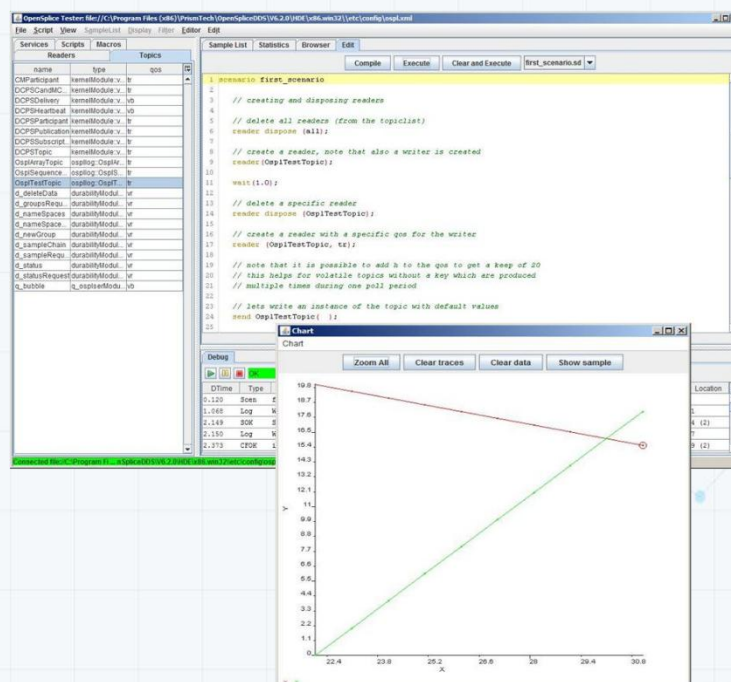


OpenSpliceDDS is part of the ZettaScale DDS offering - it is a fully featured DDS implementation targeted for enterprise platforms and devices. It is fully interoperable with Cyclone DDS, Vortex Link and Vortex Insight products. The OpenSpliceDDS product offering is made of the Core offering and a set of commercially available add-ons and extra features. The OpenSpliceDDS Core is a full implementation of the Object Management Group (OMG) Data Distribution Service for Real-time Systems (henceforth DDS) rev1.4 standard (DCPS profiles) and the OMG-DDSI-RTPS v2.3 interoperable wire-protocol.

Overview

Automated Testing and Debugging

The OpenSpliceDDS Tester is a major leap forward in automated testing and debugging of DDS-based systems. The 100% Java based tool is designed with the systems integrator in mind and offers an intuitive set of features to aid his task, offering both 'local' operation (where the tool is running on a deployed DDS-system) as well as 'remote' operation (where the tool is connect over SOAP to a remotely deployed DDS-system).





Key Features

The key features of OpenSpliceDDS Tester include:

- Automated testing of DDS-based systems
 - Dynamic discovery of DDS entities
 - Domain-Specific scripting Language (DSL) for DDS test scenarios
 - Batch execution of regression tests
- Debugging of distributed DDS system
 - One-click definition of a monitoring-time-line
 - Analysis/comparison of topics/instances & samples
 - Virtual topic-attributes to dramatically ease analysis
 - System-browser of DDS entities (app's/readers/writers)
 - Connectivity and QoS-conflict monitoring/detection
 - Statistics-monitoring of applications and services
- Integrated script development environment
 - Syntax highlighting editor, script-executor and debugger based on the Tester DSL
 - Supports embedding javascript, python or ruby in test scenarios
 - One-click relations between script, logs and timeline
 - Optional integration of message-interfaces with DDS interactions

Benefits

Once started the Tester tool receives all instances of the topics of interest and will display them in the sample list in the order they were produced (using the source time stamp). This makes it very easy to see when topics are produced and in what order. It also provides feedback about unexpected updates.

Other benefits of Tester include:

- Independent of the system under test -- Tester doesn't alter/impact the system's software or configuration data
- Dynamic creation of test readers based on the system under test -- users can analyse and debug a running system
- DDS interactions can be captured as scripts -- users can reproduce (success and fail) test scenarios
- Provides a DDS testing specific scripting language -- >80% reduction in the lines of test code significantly reduces the time to develop automated test scenarios
- Scripts can be assembled into comprehensive test suites (batches) -- facilitates repeatable testing and improved test case coverage
- Supports headless testing -- integrates with development process e.g. nightly regression testing



The OpenSpliceDDS Tester is complementary to the OpenSpliceDDS Tuner in that the Tuner facilitates 'white-box' application monitoring and tuning (you can look 'inside' an application and monitor its behaviour and/or even change its QoS parameters 'on-the-fly') whereas the OpenSpliceDDS Tester provides 'black-box' system testing & debugging of DDS based system (it 'stimulates' a DDS-system by injection of information and can react-on/validate/display/chart the system's responses).

Support/Maintenance

ZettaScale provides world class support, delivering a timely, reliable service to ensure every customer's business success. We offer a wide range of Support and Maintenance Programs for OpenSpliceDDS which can be tailored to customer's best fit requirements. OpenSpliceDDS Tester tool in particular is supported by the Standard and Silver annual support programs.

References and For More Information

For further information regarding OpenSpliceDDS, please e-mail: contact@zettascale.tech or visit: www.zettascale.tech



OpenSpliceDDS

DATA-CENTRIC MIDDLEWARE FOR MISSION-CRITICAL SYSTEMS



contact@zettascale.tech | www.zettascale.tech

Copyright © 2026 ZettaScale Technology. All Rights Reserved.