



OpenDDS®

OpenDDS is the leading Open Source, native C++ implementation of the OMG (Object Management Group) Data Distribution Service (DDS) for Real-Time Systems specification.

## WHY OPENDDS?

OpenDDS users will enjoy all the major benefits of DDS without the high price of licensing fees. With real-time communications for embedded systems and the new implementation of the security feature, clients have maximum user control with none of the cost.

### FEATURES

- Broad platform support, including real-time and non-real time operating systems on a variety of hardware platforms.
- Operating systems include Linux, Windows™, Mac OS™, VxWorks™, LynxOS™, and others
- Hardware platforms include the Intel Core. Processor Family, ARM, Raspberry Pi, and others.
- Complies with the OMG DCPS layer of the Data Distribution Service for Real-Time Systems (DDS) specification.
- A Pluggable Transport Layer that allows data transmission across a variety of transport protocols. OpenDDS currently implements simple TCP, UDP, reliable multicast, and unreliable multicast transports. In addition, application developers may implement their own custom transport protocols and plug them into OpenDDS.
- Interoperability with other DDS implementations through the RTPS transport.
- Support for Java bindings through JNI and the option of inclusion with JBoss (ESB) frameworks by means of a JMS wrapper.

### BENEFITS

- OpenDDS is free Open Source software (FOSS), which means no vendor lock-in and maximum user control. There are no license fees whatsoever.
- Full source code available (also at no cost).
- The OpenDDS Modeling Software Development Kit (SDK), built on top of the Eclipse Modeling Framework, simplifies the use of OpenDDS, leaving the developer free to devote more time to application issues rather than the details of internal middleware plumbing.
- Efficient marshaling and demarshaling of user-defined data types.
- Robust federated information repository that allows publishers and subscribers to discover one another, to support registration of participants and creation of topics, and to support publication of built-in topics for meta-data propagation.
- Scalable, multi-threaded architecture.
- Includes an easy-to-use run-time configuration framework that supports configuration via a combination of files, options, and application programming interfaces.



## WHY WORK WITH OBJECT COMPUTING?

Working with Object Computing gives you direct access to the team of architects and engineers who created OpenDDS and have spent their careers maturing the technology.

### ACCESS THE EXPERTS

Whether you're looking for assistance getting a complex project off the ground or you need to enhance your team's bandwidth during crunch time, our team offers the highest level of OpenDDS expertise, anywhere.

### ROADMAP ACCESS

Stay ahead of the curve with access to the latest features and functionality of OpenDDS, as well as increased visibility into where the technology is headed.

### HANDS-ON TRAINING

Our team is uniquely positioned to provide targeted training, bolstered by their deep expertise with OpenDDS. Equip your team with the confidence and advanced skills to maximize productivity and accelerate time to market.

### TECHNICAL VERSATILITY

In addition to advanced experience with OpenDDS, We are highly proficient in related and supporting technologies, including VxWorks.

### FLEXIBLE ENGAGEMENT MODELS

- Engaging our team of subject matter experts enables you to accelerate your time to market and unblock development or resourcing limitations.
- We can support whole project outsourcing, ad-hoc support requests, as well as private training for your team.
- We offer a wide range of services suitable for all budgets, without sacrificing excellent code quality, throughput, and delivery.