
all-docs Documentation

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eProsima is focused in **networking middleware and tools for high performance distributed systems** and our products are customer driven. Over the years we have excelled in several areas of expertise: **Low latency, high throughput, small footprint, low bandwidth consumption, optimum protocol, low cpu use, etc.** working under very different scenarios, from high-performance systems with high speed reliable links, to small devices connected over

unreliable radio links.

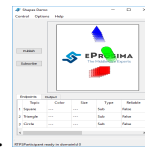


CHAPTER 1

eProxima Fast RTPS

eProxima Fast RTPS is a **high performance publish subscribe framework** to share data in distributed systems using

a decoupled model based on Publishers, Subscribers and Data Topics.



CHAPTER 2

eProxima Shape Demo

Shapes Demo is an application that Publishes and Subscribes to shapes of different colors and sizes moving on a board. Each Shape conforms its own topic: Square, Triangle or Circle. A single instance of the Shapes Demo can publish on



or subscribe to several topics at a time.

CHAPTER 3

eProsima Micro XRCE-DDS

eProsima Micro XRCE-DDS implements **DDS-XRCE protocol** specified in the DDS for *eXtremely Resource Con-*

strained Environments proposal submitted to the **Object Management Group (OMG)** consortium.



eProsimas Integration Services

eProsimas Integration Service is a library based on **Fast RTPS** for creating parameterized communication bridges between different systems, services, and protocols. It is also able to perform transformations over the over the messages

such as customized routing and mapping.



eProsimas RPC over DDS

eProsimas RPC over DDS is a high performance remote procedure call (RPC) framework. It combines a software stack with a code generation engine to build services that work efficiently in several platforms and programming

languages.



CHAPTER 6

eProsima Fast Buffers

eProsima Fast Buffers is an **open source serialization engine optimized for performance**, beating alternatives such



as Apache Thrift and Google Protocol Buffers in both Simple and Complex Structures.

eProsima Non-Intrusive DDS Recorder

eProsima Non-intrusive DDS Recorder is a tool to record all the DDS traffic in your network, using a non-intrusive mechanism allowing you to test, analyze or log your DDS distributed system without adding any new DDS participant



or service, ensuring you are recording the real behavior and timing.

eProsimas Dynamic Fast Buffers

eProsimas Dynamic Fast Buffers is an **open source high-performance serialization library** using a different approach to the traditional serialization frameworks. Data types are defined through a friendly API directly in your application code, and the serialization support is generated at runtime.