eProsima RPC over DDS

Installation Manual

Version 0.1.RC1

Z:\eProsima Admin\tarjetas_visita\logos\logo_eProsima\logoEprosimaBlueRTI.gif

Experts in networking middleware

eProsima © 2012

|  |  |
| --- | --- |
| Z:\eProsima Admin\tarjetas_visita\logos\logo_eProsima\logoEprosimaBlueRTI_conMens.gif | **eProsima**  **Proyectos y Sistemas de Mantenimiento SL**  Ronda del poniente 2 – 1ºG  28760 Tres Cantos Madrid  **Tel**: + 34 91 804 34 48  [info@eProsima.com](mailto:info@eProsima.com) – [www.eProsima.com](http://www.eProsima.com) |

**Trademarks**

eProsima is a trademark of Proyectos y Sistemas SL. All other trademarks used in this document are the property of their respective owners.

**License**

eProsima RPC over DDS is licensed under the terms described in the RPCDDS\_LICENSE file included in this distribution.

**Technical Support**

* Phone: +34 91 804 34 48
* Email: [Support@eProsima.com](mailto:Support@eProsima.com)

Table of Contents

[eProsima RPC over DDS 1](#_Toc343861891)

[1 Basic Requirements 4](#_Toc343861892)

[2 Installation 4](#_Toc343861893)

[2.1 Windows 7 32-bits 5](#_Toc343861894)

[2.1.1 RTI Connext DDS 5.0 installation 5](#_Toc343861895)

[2.1.2 eProsima RPC over DDS installation 5](#_Toc343861896)

[2.1.3 Visual C++ 2010 Redistributable package installation 5](#_Toc343861897)

[2.2 Windows 7 64-bits 7](#_Toc343861898)

[2.2.1 RTI DDS installation 7](#_Toc343861899)

[2.2.2 RPCDDS installation 7](#_Toc343861900)

[2.2.3 Visual C++ 2010 Redistributable package installation 7](#_Toc343861901)

[2.3 Fedora 17 32-bits 8](#_Toc343861902)

[2.3.1 RTI Connext DDS 5.0 installation 8](#_Toc343861903)

[2.3.2 Boost libraries installation 8](#_Toc343861904)

[2.3.3 RPCDDS installation 8](#_Toc343861905)

[2.4 Fedora 17 64-bits 9](#_Toc343861906)

[2.4.1 RTI Connext DDS 5.0 installation 9](#_Toc343861907)

[2.4.2 Boost libraries installation 9](#_Toc343861908)

[2.4.3 RPCDDS installation 9](#_Toc343861909)

# Basic Requirements

* Windows 7 (32/64 Bit)
* Visual Studio 2010
* RTI Connext DDS 5.0

# Installation

This document describes how to install eProsima RPC over DDS in several operating systems. Select your operating system and follow the steps.

## Windows 7 32-bits

### RTI Connext DDS 5.0 installation

* eProsima RPC over DDS uses RTI Connext DDS 5.0 as its communications engine, and its libraries and tools should be installed. Install RTI Connext DDS for Win32 with the corresponding installer.
* The environment variable NDDSHOME needs to be set to the RTI Connext DDS installation folder. An example is shown below:

set NDDSHOME=C:\Program Files (x86)\RTI\ndds.5.0.0

* Also the environment variable PATH has to contain the location of the RTI Connext DDS libraries for platform *i86Win32VS2010*.

set PATH=%PATH%;%NDDSHOME%\lib\i86Win32VS2010

### eProsima RPC over DDS installation

* Download the installation package for your system.

eProsima\_RPCDDS-0.1.rc1-RTIDDS-5.0.0.exe

* Execute the installer and follow the instructions. You should make sure that “i86 libraries” are selected in the *Choose Components* step.
* The environment variable RPCDDSHOME needs to be set to the RPC over DDS installation folder. The installer provides its setting. Make sure that this option is selected in the *Choose Components* step.
* eProsima RPC over DDS libraries have to be accessible for your system. The installer offers the possibility of setting the location of the eProsima RPC over DDS i86 libraries in the environment variable PATH. Make sure that this option is selected in the *Choose Components* step.
* It is convenient also to add the rpcddsgen tool folder to the PATH. The installer also offers the possibility of setting the location of the rpcddsgen tool in the environment variable PATH. Make sure that this option is selected in the *Choose Components* step.

### Visual C++ 2010 Redistributable package installation

* eProsima RPC over DDS requires this package. It can be downloaded from:

[Visual C++ 2010 Redistributable](http://www.microsoft.com/en-us/download/details.aspx?id=8328)

## Windows 7 64-bits

### RTI DDS installation

* eProsima RPC over DDS uses RTI Connext DDS 5.0 as its communications engine, and its libraries and tools should be installed. Install RTI Connext DDS for Win64 with the corresponding installer.
* The environment variable NDDSHOME needs to be set to the RTI Connext DDS installation folder.

set NDDSHOME=C:\Program Files (x86)\RTI\ndds.5.0.0

* Also the environment variable PATH has to contain the location of the RTI DDS libraries for platform *x64Win64VS2010*. An example is shown below:

set PATH=%PATH%;%NDDSHOME%\lib\x64Win64VS2010

### RPCDDS installation

* Download the installation package for your system.

eProsima\_RPCDDS-0.1.rc1-RTIDDS-5.0.0.exe

* Execute the installer and follow the instructions. You should make sure that “x64 libraries” are selected in the *Choose Components* step.
* The environment variable RPCDDSHOME needs to be set to the RPC over DDS installation folder. The installer provides its setting. Make sure that this option is selected in the *Choose Components* step.
* eProsima RPC over DDS libraries have to be accessible for your system. The installer offers the possibility of setting the location of the eProsima RPC over DDS x64 libraries in the environment variable PATH. Make sure that this option is selected in the *Choose Components* step.
* It is convenient also to add the rpcddsgen tool folder to the PATH. The installer also offers the possibility of setting the location of the rpcddsgen tool in the environment variable PATH. Make sure that this option is selected in the *Choose Components* step.

### Visual C++ 2010 Redistributable package installation

* eProsima RPC over DDS requires this package. It can be downloaded from:

[Visual C++ 2010 Redistributable](http://www.microsoft.com/en-us/download/details.aspx?id=13523)

## Fedora 17 32-bits

### RTI Connext DDS 5.0 installation

* eProsima RPC over DDS uses RTI Connext DDS 5.0 as its communications engine, and its libraries and tools should be installed. Install RTI Connext DDS for Linux platform *i86Linux2.6gcc4.4.5* with the corresponding installer.
* The environment variable NDDSHOME needs to be set to the RTI Connext DDS installation folder. An example is shown below:

export NDDSHOME=/opt/RTI/ndds.5.0.0

* Also the environment variable PATH and LD\_LIBRARY\_PATH have to contain the location of the RTI Connext DDS libraries for platform *i86Linux2.6gcc4.4.5*.

export PATH=$PATH:$NDDSHOME/lib/i86Linux2.6gcc4.4.5

export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:$NDDSHOME/lib/i86Linux2.6gcc4.4.5

### Boost libraries installation

* eProsima RPC over DDS uses Boost libraries. Install them using the Fedora package manager.

yum install boost-date-time boost-chrono boost-system boost-thread

### RPCDDS installation

* Download the installation package for your system.

eProsima\_RPCDDS-0.1.rc1-RTIDDS-5.0.0.tar.gz

* Decompress the package in the folder you want.
* The environment variable RPCDDSHOME needs to be set to the RPC over DDS installation folder.

export RPCDDSHOME=/opt/eProsima/rpcdds

* eProsima RPC over DDS libraries have to be accessible for your system. The environment variable PATH and LD\_LIBRARY\_PATH have to contain the location of the eProsima over DDS libraries for platform *i86Linux2.6gcc4.4.5*.

export PATH=$PATH:$RPCDDSHOME/lib/i86Linux2.6gcc4.4.5

export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:$RPCDDSHOME/lib/i86Linux2.6gcc4.4.5

* It is convenient also to add the rpcddsgen tool folder to the PATH.

export PATH=$PATH:$RPCDDSHOME/scripts

## Fedora 17 64-bits

### RTI Connext DDS 5.0 installation

* eProsima RPC over DDS uses RTI Connext DDS 5.0 as its communications engine, and its libraries and tools should be installed. Install RTI Connext DDS for Linux platform *x64Linux2.6gcc4.4.5* with the corresponding installer.
* The environment variable NDDSHOME needs to be set to the RTI Connext DDS installation folder. An example is shown below:

export NDDSHOME=/opt/RTI/ndds.5.0.0

* Also the environment variable PATH and LD\_LIBRARY\_PATH have to contain the location of the RTI Connext DDS libraries for platform *x64Linux2.6gcc4.4.5*.

export PATH=$PATH:$NDDSHOME/lib/x64Linux2.6gcc4.4.5

export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:$NDDSHOME/lib/x64Linux2.6gcc4.4.5

### Boost libraries installation

* eProsima RPC over DDS uses Boost libraries. Install them using the Fedora package manager.

yum install boost-date-time boost-chrono boost-system boost-thread

### RPCDDS installation

* Download the installation package for your system.

eProsima\_RPCDDS-0.1.rc1-RTIDDS-5.0.0.tar.gz

* Decompress the package in the folder you want.
* The environment variable RPCDDSHOME needs to be set to the RPC over DDS installation folder. An example is shown below:

export RPCDDSHOME=/opt/eProsima/rpcdds

* eProsima RPC over DDS libraries have to be accessible for your system. The environment variable PATH and LD\_LIBRARY\_PATH have to contain the location of the eProsima over DDS libraries for platform *x64Linux2.6gcc4.4.5*.

export PATH=$PATH:$RPCDDSHOME/lib/x64Linux2.6gcc4.4.5

export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:$RPCDDSHOME/lib/x64Linux2.6gcc4.4.5

* It is convenient also to add the rpcddsgen tool folder to the PATH.

export PATH=$PATH:$RPCDDSHOME/scripts