

RTI Limited Bandwidth Plugins

Installation Guide

Version 6.0.0



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The security features of this product include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

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Chapter 1 Installing

Make sure you have a compatible version of *RTI® Connex® DDS*, as described in the *RTI Limited Bandwidth Plugins Release Notes*.

Notes:

- These instructions use forward slashes (/) in directory paths. If you are on a Windows® machine, use backwards slashes instead (\).
- NDDSHOME is described in [Chapter 2 Paths Mentioned in Documentation on page 3](#).
- You do not need root/administrator privileges.

1. Install *RTI Limited Bandwidth Plugins* on top of *RTI Connex DDS*:

Use the `<NDDSHOME>/bin/rtipkginstall` batch file to install *Limited Bandwidth Plugins*:

```
cd <NDDSHOME>
bin/rtipkginstall <path to file>
```

2. Add `<NDDSHOME>/lib/<architecture>` to your **PATH** and **LD_LIBRARY_PATH** (on UNIX-based systems) or **Path** (on Windows systems) environment variable (replacing `<architecture>` with the appropriate string for your system architecture^a). For example, on a UNIX-based system:

```
> setenv PATH \
    /home/your name/rti_connex_dds-6.x.y/lib/i86Linux3gcc4.8.2:$PATH
> setenv LD_LIBRARY_PATH \
    /home/your name/rti_connex_dds-6.x.y/lib/i86Linux3gcc4.8.2:${LD_LIBRARY_PATH}
```

If you need help with this process, please see the *RTI Connex DDS Core Libraries Getting Started Guide*.

^aArchitecture strings are listed in the *RTI Limited Bandwidth Plugins Release Notes*.

If you are using Visual Studio®:

You must have an appropriate version of Visual Studio Redistributable Package installed on the machine where you are *running* an application built with the dynamic libraries. For details, see the *RTI Connex DDS Core Libraries Platform Notes*.

3. After Installation:

- See the *User's Manual* in <NDDSHOME>/doc/manuals/connex_dds/limited_bandwidth_plugins for an overview of each plug-in's capabilities and configuration instructions.
- See these examples in the <path to examples>/connex_dds/c/limited_bandwidth_plugins directory:
 - dil-stacking
 - lbediscovery
 - lbpdiscovery
 - lbrtps
 - zrtps

Chapter 2 Paths Mentioned in Documentation

The documentation refers to:

- **<NDDSHOME>**

This refers to the installation directory for *RTI® Connex® DDS*. The default installation paths are:

- Mac® OS X® systems:
/Applications/rti_connex_dds-6.0.0
- UNIX-based systems, non-*root* user:
/home/<your user name>/rti_connex_dds-6.0.0
- UNIX-based systems, *root* user:
/opt/rti_connex_dds-6.0.0
- Windows® systems, user without Administrator privileges:
<your home directory>\rti_connex_dds-6.0.0
- Windows systems, user with Administrator privileges:
C:\Program Files\rti_connex_dds-6.0.0

You may also see \$NDDSHOME or %NDDSHOME%, which refers to an environment variable set to the installation path.

Wherever you see <NDDSHOME> used in a path, replace it with your installation path.

Note for Windows Users: When using a command prompt to enter a command that includes the path **C:\Program Files** (or any directory name that has a space), enclose the path in quotation marks. For example:

```
"C:\Program Files\rtdi_connext_dds-6.0.0\bin\rtiddsgen"
```

Or if you have defined the `NDDSHOME` environment variable:

```
"%NDDSHOME%\bin\rtiddsgen"
```

- **<path to examples>**

By default, examples are copied into your home directory the first time you run *RTI Launcher* or any script in `<NDDSHOME>/bin`. This document refers to the location of the copied examples as `<path to examples>`.

Wherever you see `<path to examples>`, replace it with the appropriate path.

Default path to the examples:

- Mac OS X systems: `/Users/<your user name>/rtdi_workspace/6.0.0/examples`
- UNIX-based systems: `/home/<your user name>/rtdi_workspace/6.0.0/examples`
- Windows systems: `<your Windows documents folder>\rtdi_workspace\6.0.0\examples`

Where 'your Windows documents folder' depends on your version of Windows. For example, on Windows 10, the folder is `C:\Users\<your user name>\Documents`.

Note: You can specify a different location for `rtdi_workspace`. You can also specify that you do not want the examples copied to the workspace. For details, see *Controlling Location for RTI Workspace and Copying of Examples* in the *RTI Connext DDS Core Libraries Getting Started Guide*.