

# **RTI Limited Bandwidth Plugins**

**Installation Guide**

**Version 6.1.2**



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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 Linux systems) or **Path** (on Windows systems) environment variable (replacing `<architecture>` with the appropriate string for your system architecture).

Architecture strings are listed in the *RTI Connex DDS Core Libraries Platform Notes*. See the *RTI Limited Bandwidth Plugins Release Notes* for architectures (platforms) that the *Limited Bandwidth Plugins* supports.

For example, on a Linux system:

```
>export PATH=/home/your name/rti_connex_dds-6.x.y/lib/armv8Linux4gcc7.3.0:$PATH
>export LD_LIBRARY_PATH=/home/your name/rti_connex_dds-
6.x.y/lib/armv8Linux4gcc7.3.0:${LD_LIBRARY_PATH}
```

Or, run the `rtisetenv` script. This script adds the location of the SDK libraries (`<NDDSHOME>/lib/<architecture>`) to your library path, sets the `<NDDSHOME>`

environment variable (see [Chapter 2 Paths Mentioned in Documentation on page 3](#)), and puts the *RTI Code Generator* tool in your path. For example, on a Linux system:

```
$ source <NDDSHOME>/resource/scripts/rtisetenv_armv8Linux4gcc7.3.0.bash
```

For more information, see Set Up Environment Variables (rtisetenv), in "Hands-On 1" of *Introduction to Publish/Subscribe*, in the [RTI Connext DDS Getting Started Guide](#).

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 Windows section of the [RTI Connext DDS Core Libraries Platform Notes](#).

### 3. After Installation:

- See the *User's Manual* in <NDDSHOME>/doc/manuals/addon\_products/limited\_bandwidth\_plugins/users\_manual for an overview of each plug-in's capabilities and configuration instructions.
- See these examples in the <path to examples>/connext\_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:

- macOS® systems:  
**/Applications/rti\_connex\_dds-6.1.2**
- Linux systems, non-*root* user:  
**/home/<your user name>/rti\_connex\_dds-6.1.2**
- Linux systems, *root* user:  
**/opt/rti\_connex\_dds-6.1.2**
- Windows® systems, user without Administrator privileges:  
**<your home directory>\rti\_connex\_dds-6.1.2**
- Windows systems, user with Administrator privileges:  
**C:\Program Files\rti\_connex\_dds-6.1.2**

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\rti_connex_tdds-6.1.2\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:

- macOS systems: **/Users/<your user name>/rti\_workspace/6.1.2/examples**
- Linux systems: **/home/<your user name>/rti\_workspace/6.1.2/examples**
- Windows systems: **<your Windows documents folder>\rti\_workspace\6.1.2\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 **rti\_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 Installation Guide*.