RTI Limited Bandwidth Plugins

Installation Guide

Version 6.0.1
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Chapter 1 Installing

Make sure you have a compatible version of RTI® Connext® 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 Connext DDS:

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

```bash
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 architecturea). For example, on a UNIX-based system:

```bash
> setenv PATH \
/home/your_name/rti_connext_dds-6.x.y/lib/i86Linux3gcc4.8.2:$PATH
> setenv LD_LIBRARY_PATH \
/home/your_name/rti_connext_dds-6.x.y/lib/i86Linux3gcc4.8.2:${LD_LIBRARY_PATH}
```

If you need help with this process, please see Step 1, Set up the Environment, in the RTI Connext DDS Core Libraries Getting Started Guide.

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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 Windows section of the RTI Connext DDS Core Libraries Platform Notes.

3. After Installation:
   - See the User’s Manual in `<NDDSHOME>/doc/manuals/connext_dds/limited_bandwidth_plugins` 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
     - lbdiscovery
     - lbpdiscov
     - lbrtps
     - zrtps
Chapter 2 Paths Mentioned in Documentation

The documentation refers to:

- `<NDDSHOME>`

  This refers to the installation directory for RTI® Connext® DDS. The default installation paths are:
  
  - macOS® systems:
    `/Applications/rti_connext_dds-6.0.1`
  
  - UNIX-based systems, non-root user:
    `/home/<your user name>/rti_connext_dds-6.0.1`
  
  - UNIX-based systems, root user:
    `/opt/rti_connext_dds-6.0.1`
  
  - Windows® systems, user without Administrator privileges:
    `<your home directory>\rti_connext_dds-6.0.1`
  
  - Windows systems, user with Administrator privileges:
    `C:\Program Files\rti_connext_dds-6.0.1`

  You may also see `SNDDSHOME` 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_connext.dds-6.0.1\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/6.0.1/examples
- UNIX-based systems: /home/<your user name>/rti_workspace/6.0.1/examples
- Windows systems: <your Windows documents folder>\rti_workspace\6.0.1\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.