

RTI Limited Bandwidth Plugins

Installation Guide

Version 7.3.0



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Chapter 1 Download Instructions

This document provides instructions on how to download and install the *RTI® Limited Bandwidth Plugins*.

Log into the RTI Customer Portal, <https://support.rti.com/>. You will need your username and password, which are included in the letter confirming your purchase. If you do not have this letter, please contact license@rti.com. If you need help with the download process, contact support@rti.com.

Once you have logged into the portal, select the Downloads tab. Choose the appropriate version of *RTI Connex*t and look for the *RTI Limited Bandwidth Plugins* packages. Download a host and a target bundle:

- **rti_limited_bandwidth_plugins-7.3.0-host-<host platform>.rtipkg**

This includes the compiler-independent *Limited Bandwidth Plugins* dependencies (documentation and the libraries used by RTI tools and services) for the host platform.

- **rti_limited_bandwidth_plugins-7.3.0-target-<target architecture>.rtipkg**

This contains the *Limited Bandwidth Plugins* libraries you will link against for your target architecture.

<host platform> names depend on your host (**x64Linux** for Linux® systems and **x64Win64** for Windows® systems).

<target architecture> names are described in the [RTI Connex](#)t Core Libraries Platform Notes.

Chapter 2 Paths Mentioned in Documentation

The documentation refers to:

- **<NDDSHOME>**

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

- macOS® systems:
/Applications/rti_connex_dds-7.3.0
- Linux systems, *non-root* user:
/home/<your user name>/rti_connex_dds-7.3.0
- Linux systems, *root* user:
/opt/rti_connex_dds-7.3.0
- Windows® systems, user without Administrator privileges:
<your home directory>\rti_connex_dds-7.3.0
- Windows systems, user with Administrator privileges:
C:\Program Files\rti_connex_dds-7.3.0

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-7.3.0\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:

- macOS systems: **/Users/<your user name>/rtdi_workspace/7.3.0/examples**
- Linux systems: **/home/<your user name>/rtdi_workspace/7.3.0/examples**
- Windows systems: **<your Windows documents folder>\rtdi_workspace\7.3.0\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 Connex Installation Guide*.

Chapter 3 Installation Instructions

You do not need root/administrator privileges:

1. Install the *Connex* host and target bundles as described in the [RTI Connex Installation Guide](#).
2. Make sure you have a compatible version of *Connex*, as described in the [RTI Limited Bandwidth Plugins Release Notes](#).
3. Install *the Limited Bandwidth Plugin* host and target packages on top of *Connex*:
 - **rti_limited_bandwidth_plugins-7.3.0-host-<host platform>.rtipkg**
 - **rti_limited_bandwidth_plugins-7.3.0-target-<target architecture>.rtipkg**

<host platform> depends on your host (such as **x64Linux** on Linux® systems and **x64Win64** on Windows® systems).

<target architecture> is one of the supported platforms, see the [RTI Limited Bandwidth Plugins Release Notes](#).

After installation, the Limited Bandwidth Plugins libraries will be in **<NDDSHOME>/lib/<target architecture>**. Please see the [RTI Limited Bandwidth Plugins User's Manual](#) for an overview of each plugin's capabilities and configuration instructions. Examples are provided in these directories:

- **<path to examples>/connex_dds/c/limited_bandwidth_plugins:**
 - lbpdiscovery
 - lbrtps
 - zrtps

- **<path to examples>/connext_dds/c++11/limited_bandwidth_plugins:**
 - dil-stacking