RTI Limited Bandwidth Endpoint Discovery Plugin

Installation Guide

Version 6.1.1
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Chapter 1 Installing

This document provides instructions on how to install the RTI® Limited Bandwidth Endpoint Discovery (LBED) Plugin.

After installation, please see the RTI Limited Bandwidth Endpoint Discovery Plugin User’s Manual for an overview of the plugin’s capabilities and configuration instructions.

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 Endpoint Discovery Plugin on top of RTI Connext® DDS:

   Make sure you have a compatible version of RTI Connext DDS, as described in the RTI Limited Bandwidth Endpoint Discovery Plugin Release Notes.

   Use the `<NDDSHOME>/bin/rtipkginstall` batch file to install RTI Limited Bandwidth Endpoint Discovery Plugin:

   ```
   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 Limited Bandwidth Endpoint Discovery Plugin Release Notes.

   For example, on a Linux system:
>export PATH=/home/your name/rti_connext.dds-6.x.y/lib/armv8Linux4gcc7.3.0:$PATH
>export LD_LIBRARY_PATH=/home/your name/rti_connext.dds-6.x.y/lib/armv8Linux4gcc7.3.0:$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 the 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.
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-6.1.1`
  
  - Linux systems, non-root user:
    `/home/<your user name>/rti_connext_dds-6.1.1`
  
  - Linux systems, root user:
    `/opt/rti_connext_dds-6.1.1`
  
  - Windows® systems, user without Administrator privileges:
    `<your home directory>\rti_connext_dds-6.1.1`
  
  - Windows systems, user with Administrator privileges:
    `C:\Program Files\rti_connext_dds-6.1.1`

  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_connexion.dds-6.1.1\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/6.1.1/examples
- Linux systems: /home/\your user name>/rti_workspace/6.1.1/examples
- Windows systems: \your Windows documents folder>/rti_workspace/6.1.1/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.