RTI Launcher

Release Notes

Version 6.1.0

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Trademarks

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Chapter 1 Supported Platforms

RTI® Launcher is supported on the platforms listed in Table 1.1 Supported Platforms. For more information, see the *RTI Connext DDS Core Libraries Platform Notes*.

Note: POSIX®-compliant architectures that end with "FACE_GP" are not supported. Custom target platforms are not supported.

Table 1.1 Supported Platforms

Platforms	Description
Linux®	All platforms on x64 CPUs listed in the *RTI Connext DDS Core Libraries Release Notes* for the same version number, except Red Hat® Enterprise Linux 6.x and CentOS™ 6.x.
macOS®	All macOS platforms listed in the *RTI Connext DDS Core Libraries Release Notes* for the same version number.
Windows®	All Windows platforms listed in the *RTI Connext DDS Core Libraries Release Notes* for the same version number.

Chapter 2 Compatibility

For backward compatibility information between 6.1.0 and previous releases, see the *Migration Guide* on the RTI Community Portal (https://community.rti.com/documentation).

Launcher has been tested with OpenJDK JDK 11, which is included in the installation package.

To run *Launcher* on a Linux platform: *Launcher* requires at least GTK™ 3 version 3.20.0 and its dependencies.

Chapter 3 What's New in 6.1.0

3.1 New Platforms

This release adds support for these platforms:

- macOS 10.15
- Red Hat Enterprise Linux 7.6
- Ubuntu 20.04 LTS (x64)

3.2 Removed Platforms

These platforms are no longer supported:

- 32-bit (x86) Linux and Windows platforms
- CentOS 6.x
- macOS 10.12
- Red Hat Enterprise Linux 6.x
- RedHawk™ Linux 6.5 (x86) (custom-supported target platform)
- SUSE Linux Enterprise Server 11
- Ubuntu 12.04 LTS

3.3 Improved Database Integration Service dialog

The Database Integration Service dialog has been updated to add several missing options. It has a new Advanced Options dialog, where you can set options specific to the selected Database Type, such as:

- where to store the log
- verbosity
- support for heap monitoring
- domain ID
- transport used by the data base (UDPv4 or shared memory)

3.4 Improved Services Dialogs with New Advanced Options

Routing Service and Persistence Service now have an Advanced Options dialog. In addition, the Advanced Options dialog for other Services has been improved by adding several more options, such as:

- Heap Snapshot
- Domain ID
- Remote Administration Domain ID
- Verbosity

3.5 Installed Products Table now Shows Version for Each Installed Product

The Installed Products table in the Configuration tab has been updated to show version information for each installed product. If more than one version of a product is installed, the table will show each version, separated by a comma, e.g., "6.1.0, 6.1.1".

3.6 Removed -language C++03 and -legacyPlugin Options from Code Generator Dialog

The "Modern C++ (C++03)" language option has been removed from the Code Generator dialog. The "Use legacy C+03/11 plugin" check box, in the advanced options of the Code Generator dialog, has also been removed.

These changes been made because the **-language C++03** option has been deprecated and the **-legacyPlugin** option has been removed from *Code Generator*. See *What's New*, in the RTI Code Generator Release Notes for more information.

3.7 New "universal" Option in Code Generator Dialog to Generate Code for All Supported Platforms

This release adds a "universal" option to the drop-down list of platforms in the Code Generator dialog. This option will generate compatible publisher/subscriber code for all supported platforms.

3.8 Code Generator Dialog now includes -useStdString Option

The Code Generator dialog has a new advanced option, **-useStdString**, which will use 'std::string' instead of 'char *' when generating code for IDL strings when the language option is C++.

3.9 New Option in Code Generator Dialog to Generate Code with a Custom Publisher and Subscriber Template

A new drop-down list in the Code Generator dialog lists the available example templates in the *Connext DDS* installation. Selecting one of the example templates will add the **-exampleTemplate** option when running Code Generator. This option generates code using a custom publisher and subscriber template saved under **NDDSHOME/resource/app/app_support/rtiddsgen/templates/example/<language>/<templateName>/**.

3.10 Ability to Specify OpenSSL Location when Opening a Terminal

When you use the button that opens a new terminal for *Connext DDS Professional* or *Connext DDS Micro*, now you can specify where OpenSSL is located on your system.

3.11 Ability to Select which Target Binary to Run

There is a new drop-down field that is used to select which target binary should be run. This new field has been added to the dialogs for:

- *RTI Routing Service*
- *RTI Recording Service*
- *RTI Persistence Service*
- *RTI DDS Ping*
- *RTI DDS Spy*

If no targets have been installed, the default is:

- x64Linux2.6gcc4.4.5 for Linux systems
- x64Darwin17clang9.0 for macOS systems
- x64Win64VS2012 for Windows systems

To change the default target, either:

- Edit the file **$NDDSHOME/resource/scripts/rticommon_config** to add your selected platform to **connextdds_architecture** (on Linux and macOS systems) or **connextddsArchitecture** (on

Windows systems).

- Or set the **CONNEXTDDS_ARCH** environmental variable to your selected target architecture.

3.12 New Button for Perftest

The Utilities tab has a new button for Perftest. This button redirects to the RTI github repository for Perftest.

3.13 New Button for Python API

The Labs tab has a new button for the Python® API. This button redirects to the RTI github repository, where you can find more information about this experimental API.

3.14 New Option in Web Integration Service Dialog to Enable WebSockets

There is a new option in the Advanced Options dialog for Web Integration Service to enable WebSockets.

3.15 Cloud Discovery Service Moved to Services Tab

Cloud Discovery Service has been moved to the Services Tab and new options have been added to its dialog.

Chapter 4 What's Fixed in 6.1.0

4.1 User-Defined Button to Open Terminal and Run Executable did not Work Properly

Launcher allows you to configure a button that will open a terminal and run an executable from that terminal. For example:

```
<toolexec terminal="true">/path/to/your/executable</toolexec>
```

In the previous release, the button opened the terminal, but it failed to run the executable. This problem has been resolved. Now the button works as expected.

[RTI Issue ID LAUNCHER-432]

4.2 OpenSSL Target not Shown in Installed Products

The OpenSSL target wasn't shown as one of the Installed Products in the Installation tab. The following error was displayed in the log:

```
Product(s) not found for XML tag: openssl_target.
```

This problem has been resolved.

[RTI Issue ID LAUNCHER-440]

4.3 Error when Starting Launcher on Windows systems without Visual C++ Redistributable for Visual Studio 2010

Trying to run *Launcher* on a Windows system without Visual C++ Redistributable for Visual Studio 2010 caused the following error:

```
The code execution cannot proceed because MSVCR100.dll was not found. Reinstalling the
program may fix this problem.
```

This problem has been resolved. The dependency on Visual C++ Redistributable for Visual Studio 2010 has been removed.

[RTI Issue ID LAUNCHER-460]

4.4 Launcher did not Detect that Connext DDS Micro was Installed on Linux and macOS Systems

On Linux and macOS systems, *Launcher* failed to detect that *Connext DDS Micro* was installed. This caused *Launcher* to disable the button for "Copy Connext DDS Micro SDK" in the Utilities tab, and the Code Generator dialog did not show *Connext DDS Micro* in the SDK choices. This problem has been resolved.

[RTI Issue ID LAUNCHER-462]

4.5 Launcher Crashed if rti_version.xml was not Found

Launcher crashed if the **rti_version.xml** file was not found during startup. This problem has been resolved. Now *Launcher* will start even if **rti_version.xml** is not found.

[RTI Issue ID LAUNCHER-466]

4.6 Launcher Propagated Some Environmental Variables on macOS Systems

Launcher propagated some environmental variables, e.g. JREHOME, NDDSHOME, etc, to newly created Terminals window on macOS systems. This problem has been resolved. Now no variables should be leaked by *Launcher*.

[RTI Issue ID LAUNCHER-512]

Chapter 5 Known Issues

5.1 Error when Updating GTK2 Libraries on Linux Platforms

If you update the GTK2 libraries on a Linux system and click on the textbox, *Launcher* will crash and show this error:

```
java: cairo-misc.c:380: _cairo_operator_bounded_by_source: Assertion `NOT_REACHED'
failed.
./rti_connext_dds-5.2.0/bin/rtilauncher: line 48: 17317 Aborted (core dumped)
"$JREHOME/bin/java" -jar "$rti_launcher.jar"
```

To resolve this problem, modify the *Launcher* script (**<NDDSHOME>/bin/rtilauncher**). Add the following to the java call in the **rtilauncher** script:

```
-Dorg.eclipse.swt.internal.gtk.cairoGraphics=false
```

When you are done, it should look like this:

```
"$JREHOME/bin/java" -Dorg.eclipse.swt.internal.gtk.cairoGraphics=false -jar "$rti_
launcher_jar"
```

[RTI Issue ID LAUNCHER-151]

5.2 Command History Window cannot be Resized on Red Hat Enterprise Linux 7.0 Platforms

The command history window cannot be resized on Red Hat Enterprise Linux 7.0 platforms.

[RTI Issue ID LAUNCHER-162]

5.3 Launcher Fails to Copy License from Network Location into an Administrator Owner Directory

Launcher fails to copy the license from a network location into an administrator owner directory. This is because *Launcher* tries to copy the license using a command prompt with administration privileges, which cannot access the shared folder because it is running in a different user context.

[RTI Issue ID LAUNCHER-181]

5.4 GLib Warnings when Opening Dialogs

On certain Linux platforms, you may see the following warning when opening a dialog:

```
(RTI Launcher:2680): GLib-CRITICAL **: .... Source ID 1968 was not found when attempting to
remove it
```

This warning is harmless. It happens because **g_source_remove()** is called to disconnect a source that was already disconnected. (*Launcher* doesn't call that function, but does call some of its dependent libraries.)

[RTI Issue ID LAUNCHER-382]

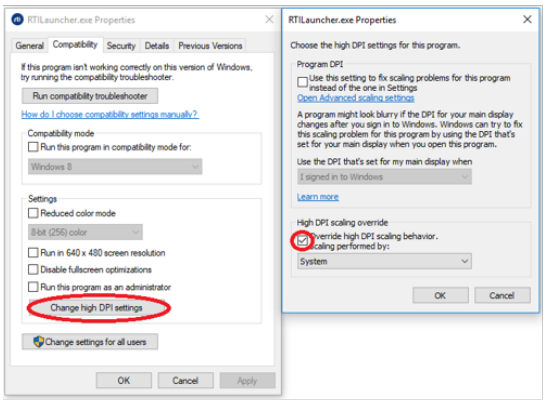
5.5 Launcher not Scaled Properly for Intermediate Factors on High-DPI Displays on Windows Platforms

SWT (the library used to build *Launcher*) automatically scales images on high-DPI monitors based on the resolution of the monitor; however, this scaling works only with integer scaling factors (100%, 200%, etc.) by default. Therefore, *Launcher* is not scaled properly when using intermediate scaling factors (125%, 150%, etc.) on high-DPI displays on Windows platforms.

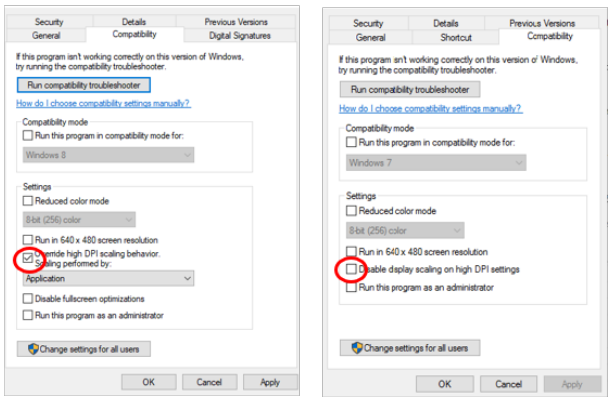
The workaround is to change the scaling behavior from **Application** to **System**. For example, on Windows 10 platforms:

1. Right click the **RTILauncher.exe** executable and select Properties.
2. Navigate to the Compatibility tab and choose the "Change high DPI settings" button.
3. Select the "Override high DPI scaling behavior" check box and change **Application** to **System** in the drop-down menu.

   Note: The "Override high DPI scaling behavior" is located in different places on older Windows 10 versions:
   - The "Override high DPI scaling behavior" check box may be located in the Compatibility tab.
   - The check box may be called "Disable display scaling on high DPI settings" located in the Compatibility tab.



Windows 10



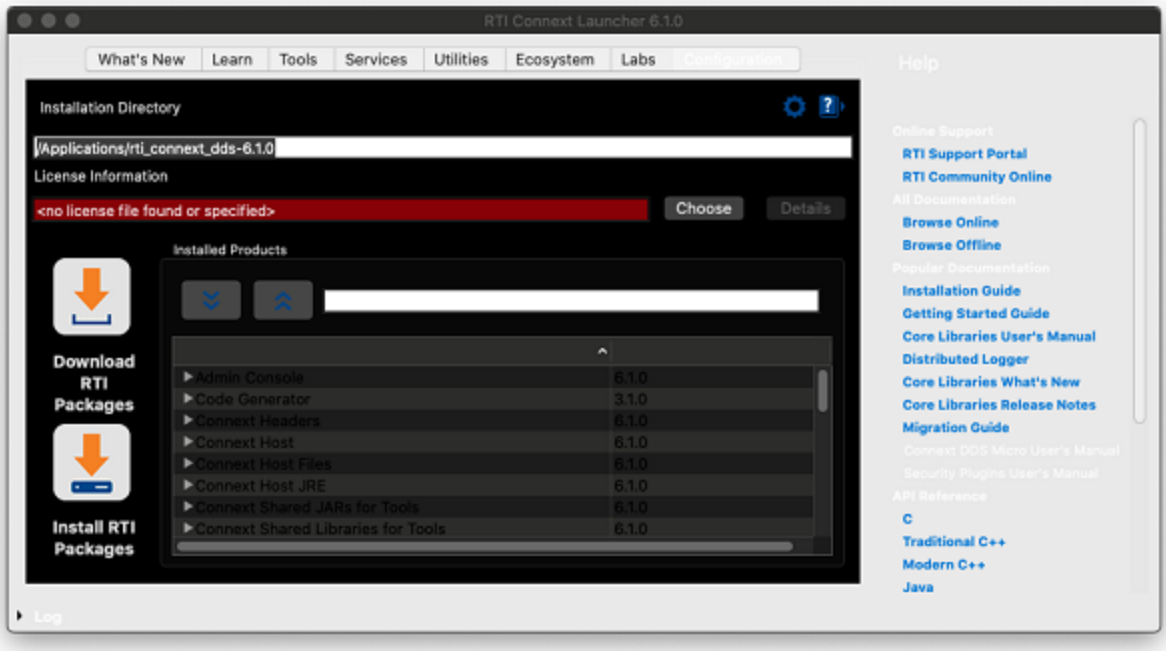
Older Windows 10 versions

[RTI Issue ID LAUNCHER-387]

5.6 Appearance Issues on macOS 10.15 Platforms (Catalina)

Launcher shows some appearance issues on macOS 10.15 platforms (Catalina):

- If the appearance mode is set to Auto, *Launcher* will mix the Light and Dark appearances.
- Changing the appearance mode from Light to Dark, or vice versa, will also mix the Light and Dark appearances of *Launcher*.



In both cases, changing the appearance mode to Light or Dark and reopening *Launcher* will fix the appearance issue.

[RTI Issue ID LAUNCHER-510]