RTI Launcher

Release Notes

Version 6.0.1

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Trademarks

Copy and Use Restrictions

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Contents

Chapter 1 Supported Platforms

RTI® Launcher is supported on the platforms listed in Table 1.1 Supported Platforms.

No custom target platforms are supported.

Table 1.1 Supported Platforms

Platforms	Description
Linux®	All platforms on x86/x64 CPUs listed in the *RTI Connext DDS Core Libraries Release Notes* for the same version number, except SUSE Linux Enterprise Server 11 and Wind River® Linux platforms.
macOS®	All macOS platforms listed in the *RTI Connext DDS Core Libraries Release Notes* for the same version number.
Windows®	All Windows platforms in the *RTI Connext DDS Core Libraries Release Notes* for the same version number.

For more information, see the *RTI Connext DDS Core Libraries Platform Notes*.

Chapter 2 Compatibility

For backward compatibility information between 6.0.1 and previous releases, see the *Migration Guide* on the RTI Community Portal (https://community.rti.com/documentation).

Launcher has been tested with Oracle JRE version 8, which is included in the installation package. No other versions of Java are supported.

To run *Launcher* in Linux, *Launcher* requires at least GTK+ 2 version 2.24.0 and its dependencies. As a result, *Launcher* might not be able to run in some operating systems, such as SuSE 11 SP2 (which has an older version of GTK+ 2).

Chapter 3 What's New in 6.0.1

3.1 New platforms

This release adds support for these platforms:

- macOS 10.14 (x64)
- Red Hat Enterprise Linux 8 (x64)
- Windows 10 (x86, x64) with Visual Studio® 2019
- Windows Server 2016 (x86, x64) with Visual Studio 2019

3.2 Removed platforms

These platforms are no longer supported:

- macOS 10.11
- Windows 7
- Windows Server 2008 R2

3.3 Added Heap Analyzer button on Labs tab

The Labs tab has a new button, **Heap Analyzer**. This button redirects to the RTI Labs website, where you can find more information about this experimental product.

3.4 RTI Connector moved to Utilities tab

Connector has been moved from the Labs tab to two new buttons in the Utilities tab, **Connector for Python** and **Connector for JavaScript**. These two buttons will redirect to the Python and JavaScript API reference.

Chapter 4 What's Fixed in 6.0.1

This section describes bugs fixed in 6.0.1. These fixes have been made since 6.0.0 was released.

4.1 Launcher didn't automatically update the content of each tab

Launcher didn't automatically update the content of each tab when a change happened in the installation directory. For example, removing a binary file should have resulted in the graying out of a button.

This problem has been resolved. Now the elements of each tab are updated if any change happens in the installation directory.

[RTI Issue ID LAUNCHER-402]

4.2 Edit button in Code Generator dialog did not work on macOS systems

The **Edit** button in the Code Generator dialog did not work on macOS systems. This problem has been resolved. Now clicking on **Edit** will open the Input file.

[RTI Issue ID LAUNCHER-405]

4.3 Code Generator dialog failed to generate code for Connext DDS Micro

The Code Generator dialog failed to generate code for *RTI Connext DDS Micro* and gave the following error:

```
Error: Unable to access jarfile C:\Program Files\rti_connext_dds-
6.0.0\bin\\..\class\rtiddsgen2.jar
```

This problem has been resolved.

[RTI Issue ID LAUNCHER-412]

4.4 Right-clicking on Copy Micro SDK did not open context menu

Right-clicking on the **Copy Micro SDK** button didn't open its context menu. This problem has been resolved.

[RTI Issue ID LAUNCHER-414]

4.5 Invalid dependency for RTI Launcher executable on Windows 64-bit systems

On a 64-bit Windows system, the *RTI Launcher* executable mistakenly had a dependency on the 32-bit Visual C++ 2010 runtime. This problem has been resolved. Now when installing a 64-bit host bundle for Windows systems, the *RTI Launcher* executable correctly depends on the 64-bit Visual C++ 2010 runtime.

[RTI Issue ID LAUNCHER-416]

4.6 Connext Pro Terminal and Connext Micro Terminal buttons did not set binaries in the path

The buttons on the Utilities tab to open a Connext Pro Terminal and Connext Micro Terminal did not set the user's path to include the binaries in **$NDDSHOME/bin**. This problem has been resolved.

[RTI Issue ID LAUNCHER-418]

Chapter 5 Previous Releases

5.1 What's New in 6.0.0

This section highlights new platforms and improvements in 6.0.0. These enhancements have been made since 5.3.1 was released.

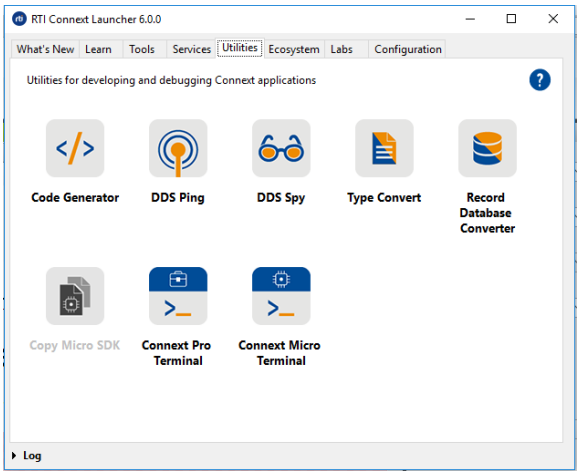
5.1.1 New platforms

This release adds support for these platforms:

- SUSE Linux Enterprise Server 12 (x64Linux2.6gcc4.3.4)
- Ubuntu 18.04 LTS (x64Linux4gcc7.3.0)

5.1.2 New buttons in Utilities Tab to open terminal window for Connext DDS Micro and Connext DDS Professional

There are two new buttons in the Utilities tab to open a terminal window for configuring the environment variables necessary for building *Connext DDS Micro* and *Connext DDS Professional*.



5.1.3 Launcher runs a Service if there is at least one valid configuration

Previously, the default behavior in *Launcher* was to allow running a Service only if all the configuration files were valid. This behavior has changed; now *Launcher* allows running a Service if there is at least one valid configuration.

5.1.4 Splash screen

Launcher will now show a splash screen on start-up while it is loading its resources.

5.1.5 Improved validation process for each Launcher dialog

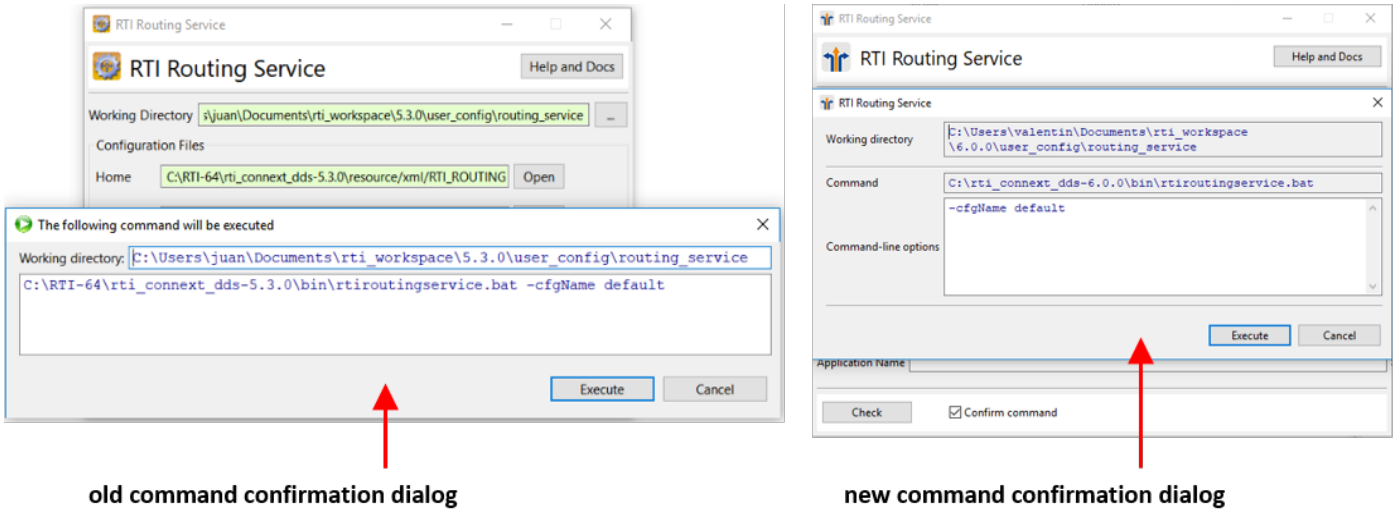
For each dialog (such as the Code Generator dialog), *Launcher* now validates each input a second time when you click the Run button. (Previously for example, if you had kept *Launcher* open and deleted a file that was already selected in the Input file field, the file path was still shown as valid even though the file had been deleted and even when you closed and reopened the dialog.) Now if the dialog has invalid entries, the Run button will be disabled and the command will not be executed. Additionally, the input field will highlight in red with a message showing that the input is not valid (for example, that the file is not present).

5.1.6 Support for new Recording Service in Launcher

- *Launcher* now calls the new *Recording Service* when using the *Recording* and *Replay* Services, and the *Record Database Converter* utility.
- *Launcher* has added new advance options for *Recording Service* and *Replay Service*.
- *Record Convert* has been renamed *Record Database Converter* and only accepts XML files to convert the databases that are generated by *Recording Service*.

5.1.7 Modified command confirmation dialog to allow adding new options to execution

The command confirmation dialog has been modified to allow adding more options to the execution. To make this process easier, the dialog's design has also changed: now the Command and its Options are separated. (See information about the "Confirm command" checkbox in the *RTI Launcher User's Manual*.)



old command confirmation dialog **new command confirmation dialog**

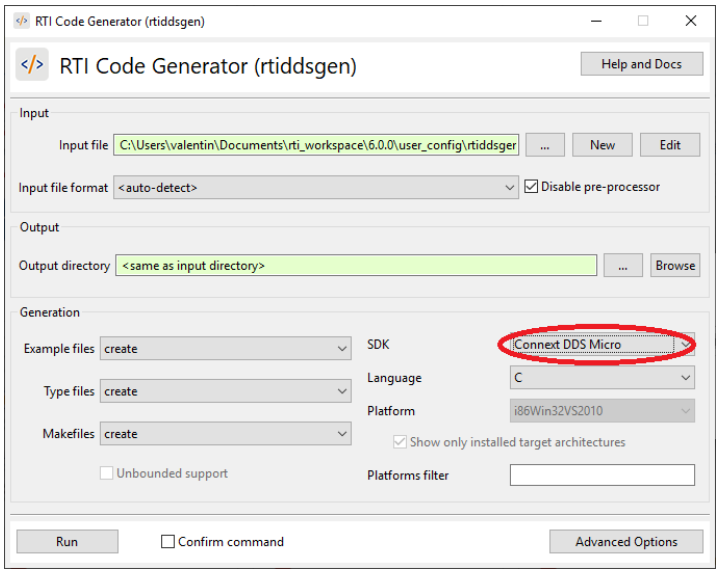
5.1.8 Updated how Launcher creates and configures tabs

Tabs in the *Launcher* graphical user interface (GUI) are not defined inside an XML file. Instead, each tab is defined by a folder inside the panels directory located in **<NDDSHOME>/resource/app/app_support/launcher/panels**. (The **labs** and the **user** tabs are located in **rti_workspace/6.0.1/user_config/launcher/panels**.) Inside each tab folder, there is an XML file for each button and a configuration file, which specifies the order of the buttons and adds a description to the tab.

Because of this change, *Launcher* is not compatible with older XML files. For further details, see the *Migration Guide* on the RTI Community Portal (https://community.rti.com/documentation) or check "Configuring Launcher" in the *RTI Launcher User's Manual*.

5.1.9 New option in Code Generator dialog to generate code for Connext DDS Micro

There is a new option in the Code Generator dialog to generate code for *Connext DDS Micro*. When using this option, the Code Generator dialog is updated to disable elements that are not supported when generating code for *Connext DDS Micro*.



5.1.10 Updated Code Generator dialog with removed options

Since *Code Generator* no longer supports the **-notypecode** option, the "Generate typecode" check box has been removed from the Code Generator dialog.

The "Use C++ STL types" check box has also been removed from the Code Generator dialog. It has been replaced with a "Use legacy C++03/11 plugin" check box in the advanced options for Code Generator.

For more information on these changes, see the *RTI Code Generator Release Notes* (What's New in 3.0.0).

5.1.11 Added button, Copy Micro SDK, to Utilities tab

There is a new button, **Copy Micro SDK**, in the Utilities Tab. This button copies the *Connext DDS* Micro SDK (source code + code generator) to a specified directory.

5.1.12 Removed databases from Database Integration Service dialog

The following databases have been removed from the *RTI Database Integration Service* dialog, since they are no longer supported:

- Oracle® TimesTen
- Oracle Database

Chapter 6 Known Issues

6.1 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]

6.2 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]

6.3 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]

6.4 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]

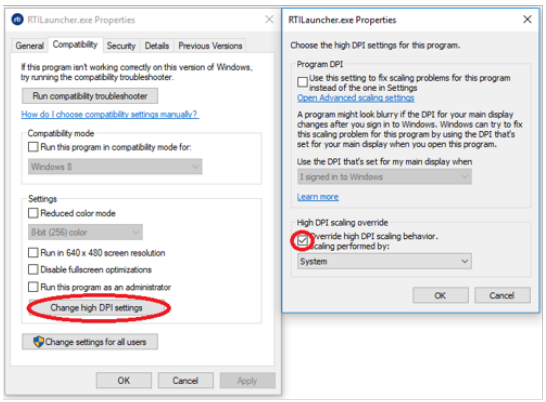
6.5 Launcher not scaled properly for intermediate factors on high-DPI displays on Windows platforms

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.

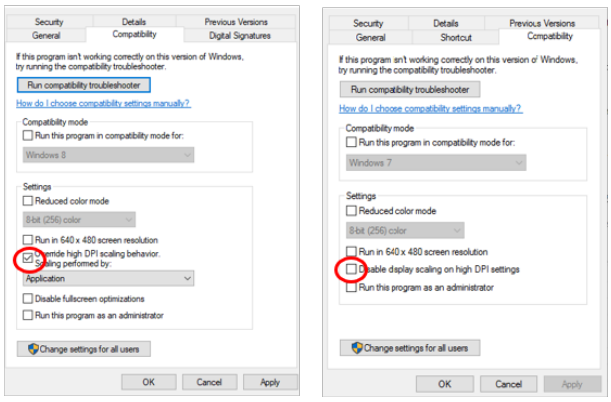
The workaround is to change the scaling behavior from **Application** to **System**. For example, on Windows 10 platforms:

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]