RTI Analyzer

for

RTI Data Distribution Service

Release Notes

Version 4.5e

The Global Leader in DDS

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Release Notes

1 Supported Platforms

RTI® Analyzer is supported on the following platforms:

Operating System		CPU	Compiler	RTI Architecture Abbreviation
Linux	CentOS 5.4, 5.5 (2.6 kernel)	x86	gcc 4.1.2	i86Linux2.6gcc4.1.2
			Sun Java Platform Standard Edition JDK 1.6	i86Linux2.6gcc4.1.2jdk
		x64	gcc 4.1.2	x64Linux2.6gcc4.1.2
			Sun Java Platform Standard Edition JDK 1.6	x64Linux2.6gcc4.1.2jdk
	Fedora 12 (2.6.32 kernel)	x64	gcc 4.4.4	x64Linux2.6gcc4.4.4
	Red Hat Enterprise Linux 4.0 (2.6 kernel)	x86	gcc 3.4.3	i86Linux2.6gcc3.4.3
			Sun Java Platform Standard Edition JDK 1.5 and 1.6	i86Linux2.6gcc3.4.3jdk
		x64[1]	gcc 3.4.5	x64Linux2.6gcc3.4.5
			Sun Java Platform Standard Edition JDK 1.5 and 1.6	x64Linux2.6gcc3.4.5jdk
	Red Hat Enterprise Linux 5.0 (2.6 kernel)	x86	gcc 4.1.1	i86Linux2.6gcc4.1.1
			Sun Java Platform Standard Edition JDK 1.5 and 1.6	i86Linux2.6gcc4.1.1jdk
		x64[1]	gcc 4.1.1	x64Linux2.6gcc4.1.1
			Sun Java Platform Standard Edition JDK 1.5 and 1.6	x64Linux2.6gcc4.1.1jdk

Operating System		CPU	Compiler	RTI Architecture Abbreviation
Linux (cont'd)	Red Hat Enterprise Linux 5.1, 5.2, 5.4, 5.5 (2.6 kernel)	x86	gcc 4.1.2	i86Linux2.6gcc4.1.2
			Sun Java Platform Standard Edition JDK 1.6	i86Linux2.6gcc4.1.2jdk
		x64	gcc 4.1.2	x64Linux2.6gcc4.1.2
			Sun Java Platform Standard Edition JDK 1.6	x64Linux2.6gcc4.1.2jdk
	Red Hat Enterprise Linux 6.0, 6.1 (2.6 kernel)	x86	gcc 4.4.5	i86Linux2.6gcc4.4.5
			Sun Java Platform Standard Edition JDK 1.6	i86Linux2.6gcc4.4.5jdk
		x64	gcc 4.4.5	x64Linux2.6gcc4.4.5
			Sun Java Platform Standard Edition JDK 1.6	x64Linux2.6gcc4.4.5jdk
	Ubuntu Server 10.04 (2.6 kernel)	x86	gcc 4.4.3	i86Linux2.6gcc4.4.3
			Sun Java Platform Standard Edition JDK 1.5 and 1.6	i86Linux2.6gcc4.4.3jdk
		x64	gcc 4.4.3	x64Linux2.6gcc4.4.3
			Sun Java Platform Standard Edition JDK 1.5 and 1.6	x64Linux2.6gcc4.4.3jdk
Solaris	Solaris 2.10	UltraSPARC	gcc3.4.2	sparcSol2.10gcc3.4.2
			Sun Java Platform Standard Edition JDK 1.5 or 1.6	sparcSol2.10jdk
Windows	All Windows platforms listed in the *RTI Data Distribution Service Release Notes* for 4.5e. Platforms on x86 CPUs run in 32-bit mode.			

1. Runs in 32-bit mode

RTI Analyzer 4.5e is designed to connect to target applications developed with *RTI Data Distribution Service* 4.5e; it is compatible with *RTI Data Distribution Service* 4.2e and higher (up to 4.5e). You do *not* need *RTI Data Distribution Service* or an *RTI Data Distribution Service* application running on the same node to run *RTI Analyzer*.

RTI Analyzer requires GTK 2.2.1 or newer on Linux and Solaris systems.

RTI Analyzer uses the Eclipse Rich Client Platform (RCP) framework™ and requires the Java Run-time Environment (JRE™) version 1.5 or newer. The JRE is included with the *RTI Analyzer* distribution. If you are using your own JRE, make sure that you are using JRE v1.5.

RTI Analyzer is a 'standalone' product—you do not need to have Eclipse installed to use *RTI Analyzer*.

2 What's New in 4.5e

- ❑ *RTI Analyzer* 4.5e is designed to connect to target applications developed with *RTI Data Distribution Service* 4.5e.
- ❑ The version numbering scheme has changed to match that of *RTI Data Distribution Service*.
- ❑ Red Hat Enterprise Linux 3.0 platforms are no longer supported.

3 What's Fixed in 4.5e

3.1 Type Conflicts not Detected in Some Cases

RTI Analyzer failed to detect type conflicts for endpoints that shared the same Topic. The failure occurred only during certain circumstances and with some type structures. This problem has been resolved.

[RTI Bug # 13971]

3.2 New Default Transport Settings to Ignore Loopback Interface

The default UDPv4 and UDPv6 transport settings for **ignore_loopback_interface** have been changed from automatic (-1) to enabled (0). This allows the *DomainParticipants* that have disabled the shared-memory transport and are running on the same host as *RTI Analyzer* to be discovered.

[RTI Bug # 14102]

3.3 Keyed Data Types for RTI Monitoring Library Entities Reported as Unkeyed

In the previous release, *RTI Analyzer* did not correctly show which entities had keyed data types. This problem only occurred for entities created by RTI products such as *RTI Monitoring Library;* entities created by user applications were not affected. For example, the *RTI Monitoring Library* entities use keys but this was not reflected in the display.

[RTI Bug # 14142]

4 Known Issues

1. Stopping the agent after a lot of discovery activity may take some time, causing *RTI Analyzer* to be locked up in the duration.
2. The Welcome screen may be blank if the system's Web browser is not found. In this case, close the blank Welcome screen (by selecting the 'x' next to the Welcome screen title), then select **Window, Open Perspective, Other..., RTI Analyzer**.
3. If the system's Web browser is not found, the following message will appear when **Help, Help Contents** is selected:

   ```
   Could not open a Web browser because there are not configured.
   Check the Web Browser preferences.
   ```

   You can use the **Window, Preferences, General, Web Browser** preference in *RTI Analyzer* to configure a Web browser to be used for viewing *RTI Analyzer's* online documentation.
4. Snapshots created using previous versions of *RTI Analyzer* are not supported. They cannot be loaded or used in snapshot comparisons.
5. Workspaces created by previous versions of *RTI Analyzer* are not supported.
6. When a snapshot comparison is done with the "System being analyzed was not restarted between snapshots" option selected, entities in the two snapshots or snapshot and live data are identified by their GUID. This ensures that the same entities are compared against each other. If the option is not selected, the results are currently based on a logical comparison between entities. As a result, it is possible for entities which only exist in one snapshot or only in live data to be incorrectly reported as being in both snapshots or in both the snapshot and live data.
7. Some or all of the colors in the color legends may not be available on some systems. To change the colors in the legend colors, select the color to be changed. Select a color from color palette and select OK.
8. The menu item to save a snapshot is enabled even when the Spy Agent is not running. Using it to save a snapshot when the Spy Agent is not running will create an empty snapshot.
9. The number of entities shown in the Status tab in the Entity Info View are not grouped based on their state (active or inactive).

10. The number of entities shown in the Snapshot Comparison View's Differences tab includes disposed entities even when the option to exclude disposed entities is selected.
11. If *RTI Data Distribution Service* displays an error such as a content-filter compile error, the error will be displayed in the command window used to launch *RTI Analyzer* on a Windows system. This window can be minimized but not closed. Closing the command window will terminate *RTI Analyzer*.
12. *RTI Analyzer* can only display TopicDataQos from one DataReader or DataWriter per topic. Therefore, if you have several DataWriters or DataReaders on a given topic and they do not have the same TopicDataQos, it is undefined which instance of the TopicDataQos will be displayed in *RTI Analyzer*.

5 Custom Supported Platforms

RTI Analyzer is also supported on the platforms listed in Table 5.1; these are target platforms for which RTI offers custom support. If you are interested in these platforms, please contact your local RTI representative or email **sales@rti.com.**

Table 5.1 **Custom Supported Platforms**

Operating System		CPU	Compiler	RTI Architecture Abbreviation
Linux	Red Hat Enterprise Linux 5.2 (2.6 kernel)	Pentium class	gcc 4.2.1	i86Linux2.6gcc4.2.1
			Sun Java Platform Standard Edition JDK 1.6	i86Linux2.6gcc4.2.1jdk
	RedHawk Linux 5.4 (2.6 kernel)	Pentium class	gcc 4.2.1	i86RedHawk5.4gcc4.2.1
			Sun Java Platform Standard Edition JDK 1.6	i86RedHawk5.4gcc4.2.1jdk