RTI Analyzer

Release Notes

Version 5.0.0

Your systems. Working as one.

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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 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 Core Libraries and Utilities Release Notes*. Platforms on x86 CPUs run in 32-bit mode.			

1. Runs in 32-bit mode.

Analyzer is designed to connect to target applications developed with *RTI Connext*™ (formerly *RTI Data Distribution Service*); it is compatible with *Connext* 4.5f and higher, as well as *RTI Data Distribution Service* 4.2e and higher. You do *not* need the *Connext Core Libraries and Utilities* or a *Connext* application running on the same node to run *Analyzer*.

Note: *Analyzer* is not compatible with applications built with *RTI Data Distribution Service* 4.5e and earlier releases when communicating over shared memory. For more information, please see the Transport Compatibility section in the *RTI Core Libraries and Utilities Release Notes*.

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

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 *Analyzer* distribution. If you are using your own JRE, make sure that you are using JRE v1.5.

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

2 What's New in 5.0.0

2.1 Support for Extensible Types

Analyzer includes partial support for the *"Extensible and Dynamic Topic Types for DDS"* specification from the Object Management Group (OMG). See Section 5.5.1 in the *Analyzer Getting Started Guide* for details.

3 What's Fixed in 5.0.0

3.1 Complex IDL Sometimes Displayed Incorrectly

Certain IDL constructs such as complex unions and bit fields were not displayed correctly in the Data Type view. This problem has been resolved.

[RTI Issue ID ANALYZER-158 and ANALYZER-191; Bug # 12954 and 14013]

3.2 Some Log Messages Missing from Message Log

If DomainParticipant creation failed, the log messages describing the failure would not appear in the Message Log under certain conditions. This issue has now been fixed.

[RTI Issue ID ANALYZER-196; Bug # 14174]

3.3 Coherent Access QoS Setting Incorrectly Displayed in Match Analysis Dialog

The PresentationQosPolicy's **coherent_access** field was always incorrectly displayed as 'false' in the Match Analysis dialog. Other views showed its correct value. This problem has been resolved.

[RTI Issue ID ANALYZER-212]

4 Known Issues

1. Stopping the agent after a lot of discovery activity may take some time, causing *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 *Analyzer* to configure a Web browser to be used for viewing *Analyzer's* on-line documentation.
4. Snapshots created using previous versions of *Analyzer* are not supported. They cannot be loaded or used in snapshot comparisons.
5. Workspaces created by previous versions of *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 *Analyzer* displays an error such as a content-filter compile error, the error will be displayed in the command window used to launch *Analyzer* on a Windows system. This window can be minimized but not closed. Closing the command window will terminate *Analyzer*.
12. *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 *Analyzer*.
13. *Analyzer's* 'Welcome' panel may appear blank on Solaris 10 systems. If this occurs, close the panel using the small 'x' in the upper-right hand corner of the panel and then use the product as normal. [RTI Bug # 14342]

5 Custom Supported Platforms

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
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