RTI Analyzer

Release Notes

Version 5.1.0

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
			Java Platform, Standard Edition JDK 1.7	i86Linux2.6gcc4.1.2jdk
		x64	gcc 4.1.2	x64Linux2.6gcc4.1.2
			Java Platform, Standard Edition JDK 1.7	x64Linux2.6gcc4.1.2jdk
	CentOS 6.0, 6.2-6.4 (2.6 kernel)	x86	gcc 4.4.5	i86Linux2.6gcc4.4.5
			Java Platform, Standard Edition JDK 1.7	i86Linux2.6gcc4.4.5jdk
		x64	gcc 4.4.5	x64Linux2.6gcc4.4.5
			Java Platform, Standard Edition JDK 1.7	x64Linux2.6gcc4.4.5jdk
	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
			Java Platform, Standard Edition JDK 1.7	i86Linux2.6gcc4.1.1jdk
		x64[1]	gcc 4.1.1	x64Linux2.6gcc4.1.1
			Java Platform, Standard Edition JDK 1.7	x64Linux2.6gcc4.1.1jdk
	Red Hat Enterprise Linux 5.1, 5.2, 5.4, 5.5 (2.6 kernel)	x86	gcc 4.1.2	i86Linux2.6gcc4.1.2
			Java Platform, Standard Edition JDK 1.7	i86Linux2.6gcc4.1.2jdk
		x64	gcc 4.1.2	x64Linux2.6gcc4.1.2
			Java Platform, Standard Edition JDK 1.7	x64Linux2.6gcc4.1.2jdk

Operating System		CPU	Compiler	RTI Architecture Abbreviation
Linux cont'd	Red Hat Enterprise Linux 6.0-6.4 (2.6 kernel)	x86	gcc 4.4.5	i86Linux2.6gcc4.4.5
			Java Platform, Standard Edition JDK 1.7	i86Linux2.6gcc4.4.5jdk
		x64	gcc 4.4.5	x64Linux2.6gcc4.4.5
			Java Platform Standard Edition JDK 1.7	x64Linux2.6gcc4.4.5jdk
	SUSE Linux Enterprise Server 11 SP2 (2.6 kernel)	x64	gcc 4.3.4	x64Linux3gcc4.3.4
			Java Platform Standard Edition JDK 1.7	x64Linux3gcc4.3.4jdk
	SUSE Linux Enterprise Server 11 SP2 (3.x kernel)	x86	gcc 4.3.4	i86Linux3gcc4.3.4
			Java Platform Standard Edition JDK 1.7	i86Linux3gcc4.3.4jdk
	Ubuntu Server 12.04 LTS (3.x kernel)	x86	gcc 4.6.3	i86Linux3.xgcc4.6.3
			Java Platform, Standard Edition JDK 1.7	i86Linux3.xgcc4.6.3jdk
		x64	gcc 4.6.3	x64Linux3.xgcc4.6.3
			Java Platform, Standard Edition JDK 1.7	x64Linux3.xgcc4.6.3jdk
Solaris	Solaris 2.10	Ultra SPARC	gcc3.4.2	sparcSol2.10gcc3.4.2
			Java Platform, Standard Edition JDK 1.7	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 also supported on the platforms listed in Table 1.1; 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 1.1 **Custom Supported Platforms**

Operating System	CPU	Compiler	RTI Architecture Abbreviation
Red Hat Enterprise Linux 5.2 (2.6 kernel)	x86	gcc 4.2.1	i86Linux2.6gcc4.2.1
		Java Platform, Standard Edition JDK 1.7	i86Linux2.6gcc4.2.1jdk

2 Compatibility

Analyzer is designed to connect to target applications developed with *RTI Connext*™ 5.1.0.

In *Connext* 5.1.0, the default **message_size_max** for the UDPv4, UDPv6, TCP, Secure WAN, and shared-memory transports changed to provide better out-of-the-box performance. *Analyzer* 5.1.0 also uses the new default value for **message_size_max**. Consequently, *Analyzer* 5.1.0 is not out-of-the-box compatible with applications running older versions of *Connext* or *RTI Data Distribution Service*. Please see the *RTI Core Libraries and Utiltities Release Notes* for instructions on how to resolve this compatibility issue with older *Connext* and *RTI Data Distribution Service* applications.

You do *not* need the *Connext Core Libraries and Utilities* or a *Connext* application running on the same node to run *Analyzer*.

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 Runtime Environment (JRE™) version 1.6 or newer. The JRE is included with the *Analyzer* distribution. If you are using your own JRE, make sure that you are using JRE v1.6.

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

3 What's New in 5.1.0

This release adds support for these platforms:

- ❏ CentOS 6.2-6.4 (2.6 kernel)
- ❏ Red Hat Enterprise Linux 6.2-6.4 (2.6 kernel)
- ❏ SUSE Linux Enterprise Server 11 SP2 (3.x kernel)
- ❏ Ubuntu Server 12.04 LTS (3.x kernel)

Analyzer is also available on the platforms in Table 3.2; these are target platforms for which RTI offers custom support. If you are interested in one of these platforms, please contact your local RTI representative or email **sales@rti.com**.

Table 3.1 **Custom Supported Platforms**

Operating System	CPU	Compiler	RTI Architecture Abbreviation
Red Hat Enterprise Linux 5.2 (2.6 kernel)	x86	gcc 4.2.1	i86Linux2.6gcc4.2.1
		Java Platform, Standard Edition JDK 1.7	i86Linux2.6gcc4.2.1jdk

3.1 RTI Analyzer is Deprecated

Analyzer's functionality is now incorporated in *RTI Administration Console*. Please use *RTI Administration Console* moving forward. *Analyzer* will not be available as a separate tool in future releases.

4 What's Fixed in 5.1.0

4.1 License Path not Stored—Solaris Systems Only

On Solaris systems, the path to the license was not stored. This caused the license dialog to appear each time *Analyzer* was launched. This problem has been resolved.

[RTI Issue ID ANALYZER-180]

4.2 Problems with QoS Configuration from XML

When attempting to configure QoS from XML, *Analyzer* did not allow those profiles which are automatically loaded (such as specified from the NDDS_QOS_PROFILES environment variable) to be used in the library/profile fields because *Analyzer* always looked for the associated file. The file specification is now optional, allowing you to use any available QoS library/profile.

[RTI Issue ID ANALYZER-188]

4.3 Participant Property Values Displayed Incorrectly

Participant property values were often shown with an incorrect value. For example, if the value was '14', the display may have shown it as 'value=14.' Other aspects of the property display may also have been affected.

[RTI Issue ID ANALYZER-221]

4.4 Match Analysis Still Used Type Name in Comparison

The match analysis feature in 5.0.0 continued to use type names as a comparison criterion. With the addition of extensible types in 5.0.0, this comparison is no longer useful since types might have different registered names but still be compatible.

[RTI Issue ID ANALYZER-233]

4.5 Match Analysis on Selected Entities with Differing Type Names Failed

If a match analysis was performed on just selected DataReaders and DataWriters, and those entities had differing type names, the match analysis would fail to include them for processing.

[RTI Issue ID ANALYZER-235]

4.6 Analyzer Unresponsive After Multiple Context Menu Requests in Match Analysis View

After making many requests from a context menu (right-click) in the Match Analysis view, Analyzer became unresponsive.

[RTI Issue ID ANALYZER-237]

4.7 DDS Entities not Repopulated in UI Even After Discovery Liveliness Reestablished

The user interface (UI) did not reflect the loss and recovery of a DomainParticipant's discovery liveliness. Instead, the *DomainParticipant*, *Publisher(s)*, *Subscriber(s)*, *DataWriter(s)*, *DataReader(s)* and perhaps the application itself were not repopulated in the UI.

[RTI Issue ID ANALYZER-255]

5 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]
14. On some platforms, the toolbar buttons in the Match Analysis view are not available. The expand and collapse functionality is available through the pulldown menu (this is the one with a downward-facing triangle). When this happens, the filtering functionality is not available. [RTI Issues ID DIABLO-546]