

RTI Administration Console

Release Notes

Version 5.2.3



Your systems. Working as one.



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Release Notes

1 Supported Platforms

RTI® Administration Console is supported on the platforms in [Table 1.1](#). For details on these platforms, see the *RTI Connex DDS Core Libraries Platform Notes* for this release.

Table 1.1 **Supported Platforms**

Platform	Operating System
Linux	CentOS 5.4, 5.5, 6.0, 6.2 - 6.4, 7.0 Fedora® 12 Red Hat® Enterprise Linux 5.0 - 5.2, 5.4, 5.5, 6.0 - 6.5, 6.7, 7.0 SUSE® Linux Enterprise Server 11 SP2 SUSE Linux Enterprise Server 11 SP2, SP3 Ubuntu® Server 12.04 LTS, Ubuntu Server 14 .04 LTS
Mac OS®	All Mac OS X platforms listed in the <i>RTI Connex DDS Core Libraries Platform Notes</i> for this release. Note: see Section 6.1 .
Windows®	All Windows platforms listed in the <i>RTI Connex DDS Core Libraries Platform Notes</i> for this release.

2 Compatibility

Admin Console is compatible with these components, with the same version number:

- ☐ *RTI Database Integration Service*
- ☐ *RTI Distributed Logger*
- ☐ *RTI Persistence Service*
- ☐ *RTI Queuing Service*
- ☐ *RTI Recording Service* (including its *Replay* and *Record* tools)
- ☐ *RTI Routing Service*

In *RTI Connex™ DDS 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.

Admin Console 5.1.0 and higher also uses the new default value for **message_size_max**. Consequently, *Admin Console* is not out-of-the-box compatible with applications running older versions (5.0 or lower) of *Connex DDS* or *RTI Data Distribution Service*. Please see the *RTI Connex*

DDS Core Libraries Release Notes for instructions on how to resolve this compatibility issue with older *Connex DDS* and *RTI Data Distribution Service* applications.

The types of the remote administration and monitoring topics are not compatible with 5.0.0. Therefore:

- ❑ *Admin Console* 5.0.0 and other 5.0.0 RTI components that perform monitoring/administration are not compatible with *Admin Console* 5.1.0.
- ❑ *Admin Console* 5.1.0 and other 5.1.0 RTI components that perform monitoring/administration are not compatible with *Admin Console* 5.0.0.

2.1 QoS Profiles for Backward Compatibility with Versions Prior to 5.2.0

Admin Console provides four built-in QoS profiles, two of which are aimed at providing backward compatibility with versions prior to 5.2.0. These two profiles are:

- ❑ **AdminConsole::Administration.510TransportCompatibility** can be configured in Settings->Administration if you want to interact with a system that uses the non-standard transport identifiers (all *Connex DDS* versions prior to 5.2.0).
- ❑ **AdminConsole::DataVisualization.510TransportCompatibility** can be used when subscribing to Topics published by an application using the non-standard transport identifiers.

3 What's New in 5.2.3

3.1 New Platforms

This release adds support for CentOS 7.0 and Red Hat Enterprise Linux 6.7 platforms. For details, see the *RTI Connex DDS Core Libraries Platform Notes*.

4 What's Fixed in 5.2.3

4.1 TypeObject Size Always Reported as -1

The TypeObject size seen in the Topic view's Datatypes tab always showed "-1" instead of the actual size. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-415]

4.2 Empty Log Messages Displayed in Console Log

The Console Log sometimes showed empty messages. This problem, which is related to CORE-6980, has been partially addressed in this release.

[RTI Issue ID ADMINCONSOLE-437]

4.3 Null Optional Members Caused NullPointerException

When visualizing data from Topics with null optional members, *Admin Console* printed NullPointerExceptions to the Console Log. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-442]

4.4 Notes Sometimes Missing from Match Analyses View

The Notes field in the Match Analyses view was sometimes missing information about a mismatched QoS field. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-443]

5 Previous Releases

This section includes:

- ☐ [What's New in 5.2.0 \(Section 5.1\)](#)
- ☐ [What's Fixed in 5.2.0 \(Section 5.2\)](#)

5.1 What's New in 5.2.0

5.1.1 New Platforms

This release added support for these platforms:

- ☐ MAC OS X
- ☐ Red Hat Enterprise Linux 7
- ☐ SUSE 11 SP3 (x64)
- ☐ Ubuntu 14
- ☐ Windows 8 and 8.1
- ☐ Windows Server 2012 R2

For details on these platforms, see the *RTI Connex DDS Core Libraries Platform Notes* for this release.

5.1.2 QoS Profiles for Backward Compatibility

Admin Console provides two new built-in QoS profiles for backward-compatibility with versions prior to 5.2.0. See [Section 2.1](#).

5.1.3 Column in DDS Data Type View to Indicate Optionality

A new column in the DDS Data Type View shows the optional status of each field for that data type. Please see the online help system for further details.

5.1.4 Easier Side-by-Side Comparisons by Unlinking/Linking Views to Selection

Now you can unlink views that display data about the currently selected entity from showing updates. You can also create multiple views of the same type. These features make it much easier to compare data from two different sources without having to change the selection. To do this, select the entity of interest and unlink the view from selection updates. Then create a second view of the same type and select the other entity of interest. The information from the two entities can then be compared in the two views.

The views included for this feature are: Match Analyses, Health, DDS Data Type, and DDS Qos.

5.1.5 Data Visualization

Admin Console can now subscribe to and visualize DDS Topics. Several new views have been added, including a Sample Log, Time Chart, and Sample Inspector. These new views are organized under a new "Data Visualization" perspective. The legacy functionality is captured in the

"Administration" perspective. See the help documentation for details and getting started instructions.

5.1.6 Ability to Identify Problematic Use of Standard and Non-Standard Transport IDs

Admin Console can now detect the problematic use of both standard and non-standard transport IDs (see RTI Issue ID CORE-5788 in the *RTI Connex DDS Core Libraries Release Notes* for details about this problem). If this situation occurs, *Admin Console* will transition the DomainParticipants involved to a warning state.

5.1.7 Disconnect Feature Removed

The ability to disconnect/reconnect the UI from/to *Connex DDS* has been removed. This feature was not easy to understand and was problematic for administration activities.

5.2 What's Fixed in 5.2.0

5.2.1 Equivalent IDL View may not have Displayed Dependent Structures

The Equivalent IDL tab in the DDS Data Type View did not show all of the non-primitive dependent structures for types that inherited from other types. This means if a type inherited from a base class which had, for example, a typedef, that typedef was not displayed in the Equivalent IDL tab. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-302]

5.2.2 Type-Consistency Logic did not Match Connex DDS

The algorithm to determine whether two data types were consistent with one another did not exactly match the logic used by the *Connex DDS* library. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-388]

5.2.3 Custom QoS Settings not Restored upon Restart

When custom QoS settings were chosen through the Preferences dialog, they were not restored up a restart of the application. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-457]

5.2.4 Crash upon Restart if Previously Subscribed to More than 8 Topics

If *Admin Console* had subscribed to more than eight Topics during a session and then restarted, it would experience a crash. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-460]

5.2.5 Joining More than ~8 Domains Failed

Admin Console would fail to join more than approximately 8 domains in the previous version. This problem has been resolved.

[RTI Issue ID ADMINCONSOLE-464]

5.2.6 Inconsistent Sample Displayed in Sample Inspector that was selected from the Sample Log

When selecting a sample (row) from the Sample Log with it either paused or with an active filter, the resulting sample displayed in the Sample Inspector may be different than expected. This issue has been resolved.

[RTI Issue ID ADMINCONSOLE-465]

5.2.7 DestinationOrder's source_timestamp_tolerance Field in QoS View was Incorrect

The DestinationOrder QoS policy's **source_timestamp_tolerance** field is not currently propagated through discovery (related to RTI Issue ID CORE-6225). Because of this, the value of **source_timestamp_tolerance** seen in the QoS view did not reflect the actual setting for the remote entity.

This problem has been resolved. Now **source_timestamp_tolerance** is hidden when inspecting QoS values from remote *DataReaders* and *DataWriters*.

[RTI Issue ID ADMINCONSOLE-466]

6 Known Issues

6.1 Limited to Single Instance of Admin Console on Mac OS X Platforms

On Mac OS X platforms, only one instance of *Admin Console* can be run at a time. This limitation is not present on other platforms.

[RTI Issue ID ADMINCONSOLE-403]

6.2 Limited Support for Keyed, Unbounded Sequences

There is limited support when using a data type that contains a field that is an unbounded sequence and that field participates in the key. The limitation is that only a subset of the total possible (2,147,483,647) sequence elements can be used. This limitation protects against high memory and CPU consumption by the application.

The limited number of fields chosen to represent the key can be seen in the Topic Data tab and when selecting data instances for the Time Chart.

[RTI Issue ID ADMINCONSOLE-399]

6.3 Additional Library Needed on Fedora 12 64-bit Systems

On Fedora 12 64-bit systems, before starting *Admin Console*, follow these steps:

1. Login as super user
2. Enter this command:

```
yum install libsoup
```

6.4 Interaction between Admin Console and RTI Recording Console

This issue only applies if you are using *Admin Console* and *Recording Console* at the same time, and you have configured *Admin Console* to join domain ID 99. In this scenario, do not use *Admin Console* to pause or disable any *Recording Console* services (their names begin with "RTI-Recorder-" or "RTI-Replay-"). Doing so may cause an error in *Recording Console*.

[RTI Issue ID RECORD-253]

6.5 Admin Console Incompatible with RTI Routing Service Configurations that use DomainParticipant Name QoS

Admin Console will not correctly display or administer instances of *RTI Routing Service* that have overridden the default DomainParticipant QoS participant_name. These names are used to identify the process as *RTI Routing Service*. You may see error messages in *Admin Console*'s log such as:

```

expecting process model : RoutingService : corresponding to instance handle : {X} : to be a Routing Service instance when it is not
cannot add monitoring capabilities for the RoutingService since the model was not found for instance handle : {X}
unable to find a DomainRoute named : {Domain Route name} : associated with RoutingService : {Routing Service name}
unable to find a Session named : {Session name} : associated with RoutingService : {Routing Service name} : and DomainRoute : {Domain Route name}
unable to find an AutoRoute named : {Auto Route name} : associated with RoutingService : {Routing Service name} : and DomainRoute : {Domain Route name} : and Session : {Session name}
unable to find a Route named : {Route name} : associated with RoutingService : {Routing Service name} : and DomainRoute : {Domain Route name} : and Session : {Session name}

```

[RTI Issue ID ADMINCONSOLE-270]

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