

# **RTI Monitor**

**Release Notes**

**Version 6.0.1**



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## **Technical Support**

Real-Time Innovations, Inc.

232 E. Java Drive

Sunnyvale, CA 94089

Phone: (408) 990-7444

Email: [support@rti.com](mailto:support@rti.com)

Website: <https://support.rti.com/>

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# 1 Supported Platforms

*RTI® Monitor* is supported on the platforms in [Table 1.1 Supported Platforms](#).

**Table 1.1 Supported Platforms**

Operating System	Version
Linux®	All Linux platforms on x86/x64 CPUs listed in the <i>RTI Connexx® DDS Core Libraries Release Notes</i> for the same version number, except Wind River® Linux 7 platforms.
macOS®	All macOS platforms listed in the <i>RTI Connexx DDS Core Libraries Release Notes</i> for the same version number.
Windows®	All Windows platforms listed in the <i>RTI Connexx DDS Core Libraries Release Notes</i> for the same version number.

For details on these platforms, see the *RTI Connexx DDS Core Libraries Platform Notes*.

*Monitor* is also supported on the platforms in [Table 1.2 Custom Supported Platforms](#); 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](mailto:sales@rti.com).

**Table 1.2 Custom Supported Platforms**

Operating System	Version
Linux	RedHawk™ Linux 6.5 on x86 and x64 CPUs Red Hat® Enterprise Linux 5.2 on x86 CPU with gcc 4.2.1

To use *Monitor*, you will also need:

- *RTI Connexx DDS* with the same version number (already included in the bundle).
- Oracle JRE 8 (already included in the bundle).

- For Windows systems: the appropriate Microsoft® Visual Studio® Redistributable libraries (already included in the Windows bundle).

## 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>).

*Monitor* can be used to monitor applications built with *Connex DDS* that also use *Monitoring Library* (part of *Connex DDS*). Use the same version number for *Monitor* and *Connex DDS*.

*Monitor* is built on top of *Connex DDS*. Therefore, you should refer to the Compatibility section of the *RTI Connex DDS Core Libraries Release Notes* for other compatibility information.

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

# 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

## 4 What's Fixed in 6.0.1

### 4.1 Host repeated for each process

*RTI Monitor* erroneously repeated the same host entity in the Physical View. This issue has been fixed.

[RTI Issue ID MONITOR-250]



# 5 Previous Releases

## 5.1 What's New in 6.0.0

### 5.1.1 New platforms

This release added support for these platforms:

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

### 5.1.2 Removed platforms

This release removed support for the following platforms:

- CentOS 5.x
- Red Hat Enterprise Linux 5.x (except 5.2 on x86 with gcc 4.2.1, which is available as a custom target platform, i86Linux2.6gcc4.2.1)
- OS X 10.10

### 5.1.3 Determining Host Name and Process ID

*Monitor* receives Discovery information about DomainParticipants, DataReaders, and DataWriters. Part of the DomainParticipant information includes system properties that provide *Monitor* with the host name and process ID. However, these properties can be disabled through QoS configuration. In this case, *Monitor* tries to fill in the missing information.

In previous releases in this situation, *Monitor* used the DomainParticipant's identity (GUID) to determine the host IP address and process ID. The host IP address was then used to try to determine a host name (in a process similar to an nslookup ). This method was not always accurate and may have resulted in an unexpected host name shown in the user interface.

Starting with this release, if the necessary information isn't provided in the system properties, *Monitor* will use 127.0.0.1 for the IP address (and lookup the name from that address) and zero for the process ID. If you see either of these values in the user interface, please reconfigure your QoS settings to allow the system properties to reach *Monitor*.

### **5.1.4 Sequence number field replaced with message ID field**

In the Distributed Logger Panel, the Sequence Number field has been replaced with a new Message ID field. This field is set on the source of the log messages and enables the identification of message loss on the distributed logger side.

## **5.2 What's Fixed in 6.0.0**

### **5.2.1 System Types Table always indicated presence of a key**

The System Types Table always indicated "yes" for the "Keyed" column if monitoring data was available for that type. This happened even if the type did not use a key. This problem has been resolved.

[RTI Issue ID MONITOR-240]

### **5.2.2 Possible segmentation fault when using Monitoring Library**

There was a rare race condition when using Monitoring Libraries that may have led to a segmentation fault. This issue was more likely to occur if the DDS application using the monitoring libraries created and deleted entities often. This problem has been fixed.

[RTI Issue ID MONITOR-246]

## 6 Known Issues

- *Monitor* will show monitoring information for an application properly only if all the monitoring Description topics are published and not filtered (this is the default setting).

The **\*Description** topics are needed to properly place objects in the tree views. The per-matched and per-locator topics are needed for the System Overview panel's Matches option to work properly.

- The aggregation capability will not work correctly with applications that publish monitoring data at a rate that is different than the aggregation rate used in *Monitor*.
- *Monitor* does not support DomainParticipants that use WireProtocolQosPolicyAutoKind RTPS\_AUTO\_ID\_FROM\_MAC.
- The internal DomainParticipant (1) and DataWriters (13) created by *Monitor* are incorrectly included in the counts for remote participants or remote writers in the Status panel, even though the monitoring library has been configured to exclude internally created entities in the count.
- When running the **rtimonitor** script in a terminal on a macOS system, you may see the following warning:

```
WARNING: GL pipe is running in software mode (Renderer ID=0x1020400)
```

This does not affect *Monitor's* functionality and will be addressed in a future release. [RTI ISSUE ID MONITOR-242]

# 7 Third-Party Licenses

Portions of *RTI Monitor* were developed using:

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Additional information about Third-Party Content contained in the RTI product suite can be found in **RTI\_ConnextDDS\_3rdPartySoftware\_Tools\_Services.pdf**.

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