RTI Limited Bandwidth
Plugins

Release Notes

Version 6.0.1
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The security features of this product include software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

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Release Notes

1 Supported Platforms

The RTI® Limited Bandwidth Plugins distribution includes:

- Limited Bandwidth Endpoint Discovery Plugin (LBED)
- Limited Bandwidth Participant Discovery Plugin (LBPD)
- Limited Bandwidth Real-Time Publish Subscribe Plugin (LBRTPS)
- Compression Real-Time Publish Subscribe Plugin (ZRTPS)

Table 2.1 Supported Platforms lists the platforms supported by these plugins. No custom platforms are supported.

Table 2.1 Supported Platforms

<table>
<thead>
<tr>
<th>Operating System</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Linux (Intel® CPU)</td>
<td>All platforms on x86/x64 CPUs listed in the RTI Connext® DDS Core Libraries Release Notes for the same version number, except SUSE® Linux Enterprise Server, Ubuntu® 12.04 LTS, and Wind River® Linux 7 platforms.</td>
</tr>
<tr>
<td>QNX®</td>
<td>QNX Neutrino® 6.4.1 (For LBED Plugin only)</td>
</tr>
<tr>
<td>Windows®</td>
<td>All Windows platforms listed in the RTI Connext DDS Core Libraries Release Notes.</td>
</tr>
</tbody>
</table>

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

1.1 Requirements when Using Microsoft Visual Studio

You must have the appropriate Microsoft® Visual Studio® Redistributable Package installed on the machine where you are running an application linked with dynamic libraries. For details, see the RTI Connext DDS Core Libraries Platform Notes.
2 Compatibility

Limited Bandwidth Plugins is an optional product for use with Connext DDS with the same version number.

The plugins are known not to work with riddspy, RTI Recording Service, RTI Shapes Demo, RTI Persistence Service, or RTI Database Integration Service.

When using the LBPD plugin with RTI Routing Service, either the 'key' or 'participant_name' property may be used. If the 'participant_name' property is used, it must match the participant name generated by Routing Service, which uses this format for naming participants: "RTI Routing Service: <service name>.-<domain_route name>#{1,2}".

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).

3 What's New in 6.0.1

3.1 Added platforms

This release adds support for these platforms:

- 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:

- Windows 7
- Windows Server 2008 R2

4 Previous Releases

4.1 What's New in 6.0.0

4.1.1 New platforms

This release added support for the Ubuntu 18.04 LTS platform.

4.1.2 Limited Bandwidth Simulation Plugin (LBS) available upon request

The Limited Bandwidth Simulation Plugin (LBS), comprised of the Limited Bandwidth Simulation Transport (LBST) and the Limited Bandwidth Simulation Manager (LBSM), is not shipped with Connext
4.2 What's Fixed in 6.0.0

4.2.1 ZRTPS Plugin's zlib compression did not work

The ZRTPS Plugin's zlib compression did not work as expected. In particular, the resulting compressed RTPS messages incorrectly had a size greater than the expected size.

This problem is now resolved. ZRTPS Plugin's zlib compression now generates compressed RTPS messages with the correct size.

[RTI Issue ID COREPLG-454]

5 Known Issues

5.1 Transport-Related Limitations for ZRTPS

The following are known transport-interaction limitations when using the ZRTPS transport plugin:

- Neither Shared Memory (SHMEM) nor UDPv6 may be used as sub-transports.
- The UDPv4 transport may not be used simultaneously as a transport and a ZRTPS sub-transport.

5.2 Some QoS not Supported by LBED Discovery Plugin

The following QoS (introduced in Connext DDS 5.0) are not currently supported in the LBED Plugin configuration file:

- AvailabilityQosPolicy
- TypeConsistencyEnforcementQosPolicy

5.3 Some Features not Supported by LBPD Discovery Plugin

The following features are not currently supported by the LBPD Plugin:

- Security
- TopicQueries
- The locator_reachability_lease_duration in the DiscoveryConfigQosPolicy
- Propagation of properties in the PropertyQosPolicy during discovery

[RTI Issue ID COREPLG-418]
6 Available Documentation

The following documentation is provided with Limited Bandwidth Plug-ins:

- **Installation Guide:**
  
  `<NDDSHOME>/doc/manuals/connext_dds/limited_bandwidth_plugins/
  RTI_LimitedBandwidthPlugins_InstallationGuide.pdf`

- **User’s Manual:**
  
  `<NDDSHOME>/doc/manuals/connext_dds/limited_bandwidth_plugins/

- **Example code**

  For UNIX-based systems:
  
  `/home/your user name/rti_workspace/version/examples/connext_dds/c/limited_bandwidth_` `plugins`

  For Windows systems:
  
  `C:\Users\your user name\Documents\rti_workspace\version\examples\connext_dds\c\limited_bandwidth_plugins`