RTI Real-Time WAN Transport

Release Notes

Version 6.1.2

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Trademarks

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1 Supported Platforms

RTI® Real-Time WAN Transport is supported on all platforms listed in the *RTI Connext DDS Core Libraries Release Notes*, including custom-supported platforms except AIX platforms and POSIX®-compliant architectures that end with "FACE_GP".

2 Compatibility

RTI Real-Time WAN Transport is an optional product for use with *Connext DDS* with the same version number.

3 What's New in 6.1.2

See "What's New in 6.1.2" in the RTI Connext DDS Core Libraries What's New document for a list of new platforms.

4 What's Fixed in 6.1.2

4.1 Real-Time WAN Transport did not work if accept_unknown_peers was set to FALSE

With *Real-Time WAN Transport*, an internal participant should be able to communicate with an external participant regardless of the **discovery.accept_unknown_peers** setting, as long as the internal participant sets its initial peer to the public IP address and port of the external participant. For example:

```
udpv4_wan://34.45.6.1:3456
```

But communication with **discovery.accept_unknown_peers** set to FALSE on the internal participant was not possible.

This problem has been resolved.

[RTI Issue ID COREPLG-628]

5 Previous Releases

5.1 What's New in 6.1.1

5.1.1 Ability to prioritize data flow using new support for differentiated services field (Linux platforms only)

This release allows you to set the differentiated services field value in the IP packets sent by the *Real-Time WAN Transport*.

To do so, use the **DataWriterQos.transport_priority** and **DataReaderQos.transport_priority** for user *Topics,* and the **DomainParticipantQos.discovery.metatraffic_transport_priority** for non-user *Topics* (e.g., discovery *Topics*).

This feature is only supported on Linux® platforms.

5.1.2 New platforms

This release adds support for the following new platforms.

Table 1 Added Platforms

Operating System	CPU	Compiler	RTI Architecture Abbreviation
AIX® 7.2 *Custom-supported target platform. Contact your RTI sales representative or sales@rti.com for more information.*	POWER9™	xlclang 16.1	64p9AIX7.2xlclang16.1
macOS® 11	Arm® v8	clang 12.0	arm64Darwin20clang12.0
QNX® Neutrino® 7.1	Arm v8	qcc 8.3.0	armv8QNX7.1qcc_gpp8.3.0

5.2 What's Fixed in 6.1.1

5.2.1 Source code bundle was missing critical piece of code related to UDP multicast support

In 6.1.0, the source code bundle was missing a critical piece of code related to UDP multicast. This issue has been resolved. The source code bundle is no longer missing code for UDP multicast support.

[RTI Issue ID CORE-11590]

5.3 What's New in 6.1.0

Real-Time WAN Transport is a new builtin *Connext DDS* transport plugin in this release that enables communication over wide area networks (WANs) using UDP as the underlying IP transport-layer protocol.

Real-Time WAN Transport is recommended for all new applications connecting over wide area networks. Legacy applications can continue to use the *RTI Secure WAN Transport* included in this release and/or upgrade to *Real-Time WAN Transport*. RTI is not committed to continuing support for the legacy *Secure WAN Transport* in future versions of *Connext DDS*.

Real-Time WAN Transport is not installed as part of a *Connext DDS* package; it must be downloaded and installed separately as described in the *Real-Time WAN Transport Installation Guide*.

See the "Real-Time WAN Transport" part of the *RTI Connext DDS Core Libraries User's Manual* for more information.