RTI Real-Time WAN Transport

Release Notes

Version 7.0.0
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Release Notes

1 Supported Platforms

RTI® Real-Time WAN Transport is supported on all platforms in the table of Supported Platforms for Compiler-Dependent Products, in the RTI Connext Core Libraries Release Notes.

2 Compatibility

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

3 What's New in 7.0.0

3.1 New Built-in XML Snippets Facilitate UDP Communication over WAN or Third-Party Networks

This release includes two new XML snippets to facilitate UDP communication over WAN or third-party networks:

- Transport.UDP.AvoidIPFragmentation
- Transport.UDP.WAN

For WAN communications, it is not a good idea to rely on IP fragmentation. IP fragmentation causes significant issues in UDP, where there is no integrated support for a path MTU (maximum transmission unit) discovery protocol as there is in TCP.

The Transport.UDP.AvoidIPFragmentation snippet configures a Participant to avoid IP fragmentation when using the builtin UDP transports.

The Transport.UDP.WAN snippet uses Transport.UDP.AvoidIPFragmentation and enables the Real-Time WAN Transport. We recommend this snippet for configurations that require sending data over the WAN.
4 What's Fixed in 7.0.0

4.1 Real-Time WAN Transport did not Work if accept_unknown_peers was 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.

For more information, see *Disabling IP Fragmentation for Real-Time WAN Transport*, in the RTI Connext Core Libraries User's Manual.

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