

RTI Real-Time WAN Transport

Release Notes

Version 7.0.0



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Contents

Release Notes

1 Supported Platforms	1
2 Compatibility	1
3 What's New in 7.0.0	1
3.1 New Builtin XML Snippets Facilitate UDP Communication over WAN or Third-Party Networks ..	1
4 What's Fixed in 7.0.0	2
4.1 Real-Time WAN Transport did not Work if accept_unknown_peers was FALSE	2

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 Connex Core Libraries Release Notes](#).

2 Compatibility

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

3 What's New in 7.0.0

3.1 New Builtin 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.

Example:

```
<qos_profile name="DisableIPFragmentationWAN">
  <base_name>
    <element>Transport.UDP.WAN</element>
  </base_name>
</qos_profile>
```

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 Connect Core Libraries User's Manual](#).

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