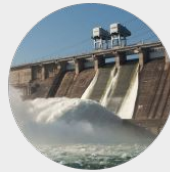




Your systems.
Working as one.



Connex Tools

Ken Brophy
October 18th, 2017
ken@rti.com

Outline

- Ecosystem
- Short description of select products
- Demonstrations
- Wrap up

Questions & Answers throughout (don't wait until the end)
Interactive; I'll be asking questions about product usage

Ecosystem



System Designer



Code Generator



Shapes Demo



Persistence Service



Routing Service



Recording Service



DDS Prototyper



Admin Console



Monitor



Spreadsheet Add-in for Microsoft Excel®



DDS Ping



DDS Spy



Queuing Service



Database Integration



Replay Service



Cloud Discovery Service



Connector



Wireshark



Recording Console

System Designer

Prototype



**System
Designer**

GUI to design data types, configure QoS, and write XML Application Configurations.

Use in conjunction with DDS Prototyper and the Pro library.

This feature is currently in the Prototype stage.



DDS Prototyper



DDS Prototyper

Accelerate application development and scenario testing by providing developers with a quick and easy-to-use mechanism to create scenarios on their own computer systems and networks, and get immediate information on the expected performance, resource usage, and behavior of their system.

This feature is currently in the Experimental stage.



Shapes Demo



Shapes Demo

Graphical application which publishes/subscribes 3 different shape Topics.

Very useful for experimenting with QoS to see how this affects behavior.

Now available in the Google Play Store for Android!

DDS Ping



DDS Ping

Command-line tool for connectivity experiments.

Can be run directly on your target machines.

Great for checking if discovery is not working in your configuration.



DDS Spy



DDS Spy

Command-line tool to see what's running and can print live data.

Can be run directly on your target machines.

Great for smaller systems and relatively low data rates.



©2017 Real-Time Innovations, Inc.

Admin Console



Admin Console

Graphical tool to see what's running, debug, visualize live data, and administer RTI services.



©2017 Real-Time Innovations, Inc.

Monitor



Monitor

Graphical tool to see what's running, tune, do in-depth debugging.

This tool works best when your applications include the Monitoring Library which provides in-depth statistics & complete QoS settings.



rti

©2017 Real-Time Innovations, Inc.

Recording Console



Recording Console

Graphical tool which simplifies launching Recorder and Replay.

Can be customized with your own configuration files.

Wireshark



Wireshark

Graphical tool which displays and dissects protocol-level packets.

Great for exploring what the RTPS packets contain.

Can plot data for doing aggregate-level system analysis.

Essential if you ever need to debug discovery.

Micro Application Generator

NEW

New feature; still in development

XML App Creation file is input

- Specify QoS, Domains, Topics, DomainParticipants, DataWriters, DataReaders, etc.

Generates Micro C code

Interested? Please email niheer@rti.com



DEMO

Ecosystem



System Designer



Code Generator



Shapes Demo



Persistence Service



Routing Service



Recording Service



DDS Prototyper



Admin Console



Monitor



Spreadsheet Add-in for Microsoft Excel®



DDS Ping



DDS Spy



Queuing Service



Database Integration



Replay Service



Cloud Discovery Service



Connector



Wireshark



Recording Console

Ecosystem Demonstrated Today



DDS Ping



DDS Spy



Recording Service



Replay Service



Admin Console



Monitor

Thank you!



Backup Slides



Admin Console



Monitor



Recording Console



Shapes Demo



Replay Service



Database
Integration



DDS Spy



Spreadsheet
Add-in for
Microsoft Excel®



Wireshark



Routing Service



Recording Service



Persistence
Service



DDS Ping



Type Convert



System
Designer



Queuing Service



Code Generator



Record Convert



DDS Prototyper



Cloud Discovery
Service



Connector

Spreadsheet Add-In



Spreadsheet
Add-in for
Microsoft Excel®

Integration with Microsoft Excel which can subscribe to Topics to show live data.

Can also publish data to DDS Topics.



Code Generator

Code Generator

Essential tool to convert type specifications into running code for various languages.

Can convert between type specification formats (IDL, XML, & XSD).