



RTI Professional Services

EXPERTISE TO ACCELERATE SUCCESS

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Juanjo Martin

Services Director

Sumeet Shendrikar

Services Director

Your Success is Our Success

You've made an investment in RTI.
We acknowledge this tremendous responsibility.

We appreciate that our technology is sophisticated, which can be daunting for users focused on larger system needs.

We want you to maximize the value from our software.

Professional Services accelerates your success with Connex.

Our Values

- Be passionate about our customer's success
- Build trust to become Trusted Advisors
- Build long term customer relationships
- Take ownership, no excuses
- Do what we say we will do - we commit, then deliver
- Always seek new ways to do better



The Value of Experience



Tapping the valve	\$2
Knowing where to tap	\$9,998
TOTAL	\$10,000

Effort is important but having the experience to know how to apply that effort makes all the difference.

Our Experience

- 350+ years of combined field proven distributed system design experience
- 130+ years of combined DDS experience
- Hundreds of customer projects
- We provide deep expertise
 - Architecture
 - Application development
 - Deploying complex distributed systems

YIELDING 30 PERCENT REDUCTION IN MEMORY CONSUMPTION THROUGH A SIMPLE CODE CHANGE

Challenge
A large Eu

DELIVERING 4X FASTER PERFORMANCE THROUGH QOS TUNING

ACHIEVING 40 PERCENT REDUCTION IN ENDPOINT DISCOVERY TRAFFIC

Challenge
A very large

REMOVING REDUNDANCIES TO IMPROVE PERFORMANCE IN A CLIENT/SERVER ARCHITECTURE

CORRECTING CONFIGURATION ERRORS: SIMPLE CHANGES, RAPID RESULTS

Challenge
A large de
day visit
distributed
The system

DEVELOPING AN AWARD-WINNING ARCHITECTURE

Challenge

A large systems integrator requested RTI assistance in developing a fully data-centric architecture for a multi-year, complex custom project.

How We Operate

- We **accelerate** product adoption and time-to-value
- We help our customers minimize
 - Costly architectural changes
 - Application development redesign
 - System integration re-testing
 - Risk
- We seek to understand
 - Understand, identify, and analyze requirements and trade-offs



Working with Services

Educational Services

Increasing your team's development and test efficiency

Systems Architecture Guidance & Best Practices

Risk mitigation and driving project success

Mentoring & Onsite Expertise

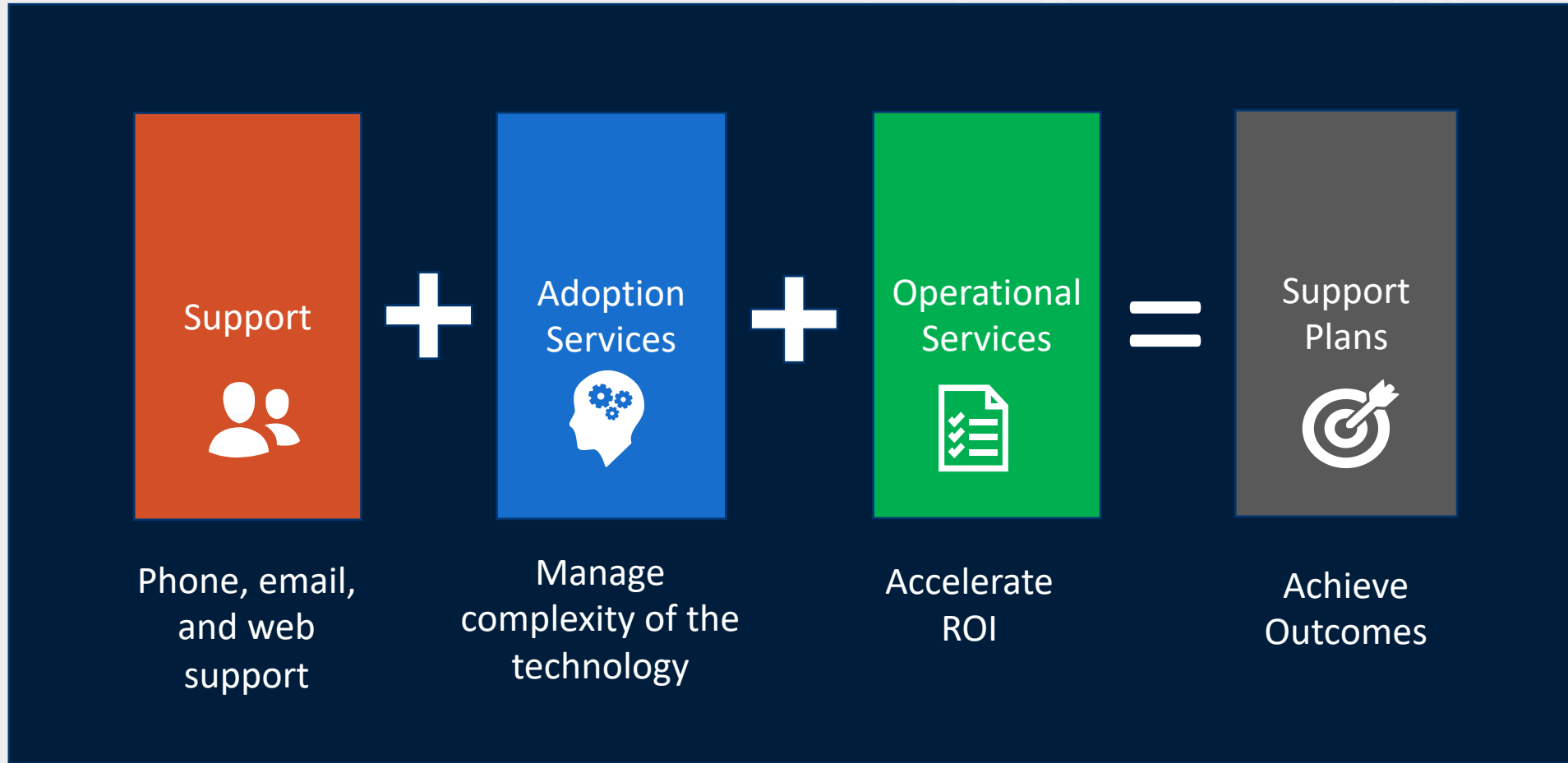
Personalized onsite/remote guidance, review and debugging

Solution Services

Extending product capabilities, and bespoke projects



Support Plans – Accelerating Outcomes



Where in the World is the Services Team?



Today's Virtual World



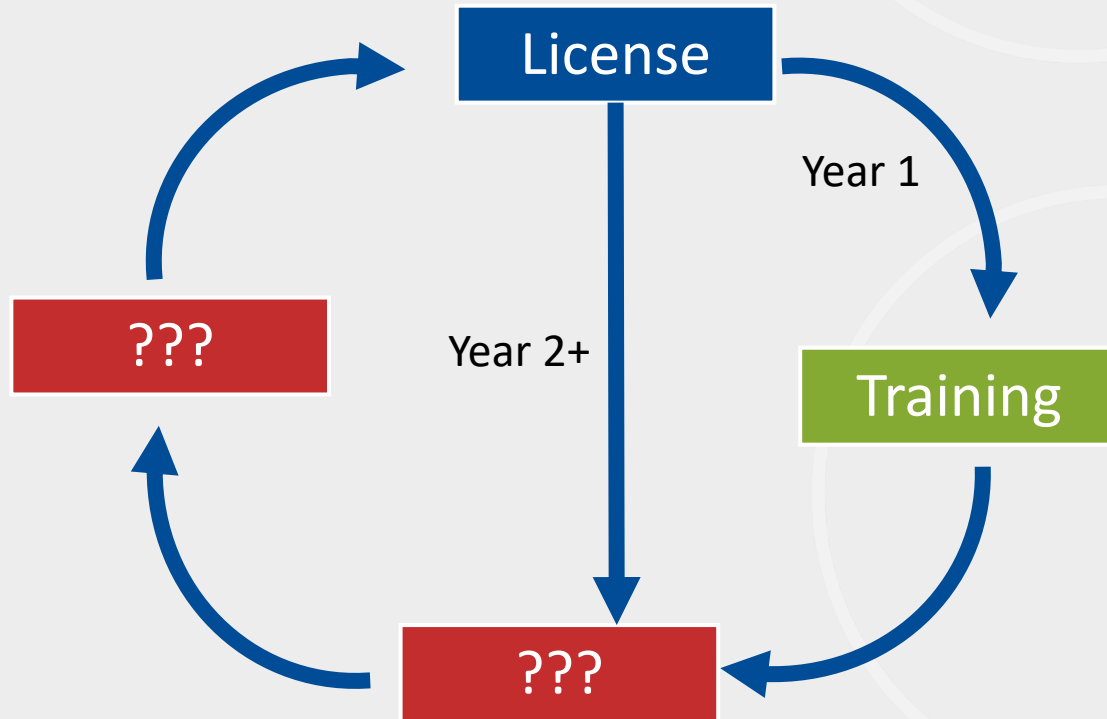
- Virtual Instructor Led Training (VILT)
 - Connex DDS Pro, Secure, or Micro
- Mentoring, Best Practices
- Solutions Architecture
- Prototypes, Proofs of Concept

RTI Xcelerators™



Challenges Consuming a Support Plan

- Don't know how Services can help
- Don't know how to explain to stakeholders
- Thought of as insurance
- Don't know how to reach out



Leads to project delays, sub-optimal system behavior, fragile architecture, ...

RTI Xcelerators

When You Need It

Deliver what you need
when you need it



Targeted Results

Designed to help you
achieve a targeted result
on RTI infrastructure

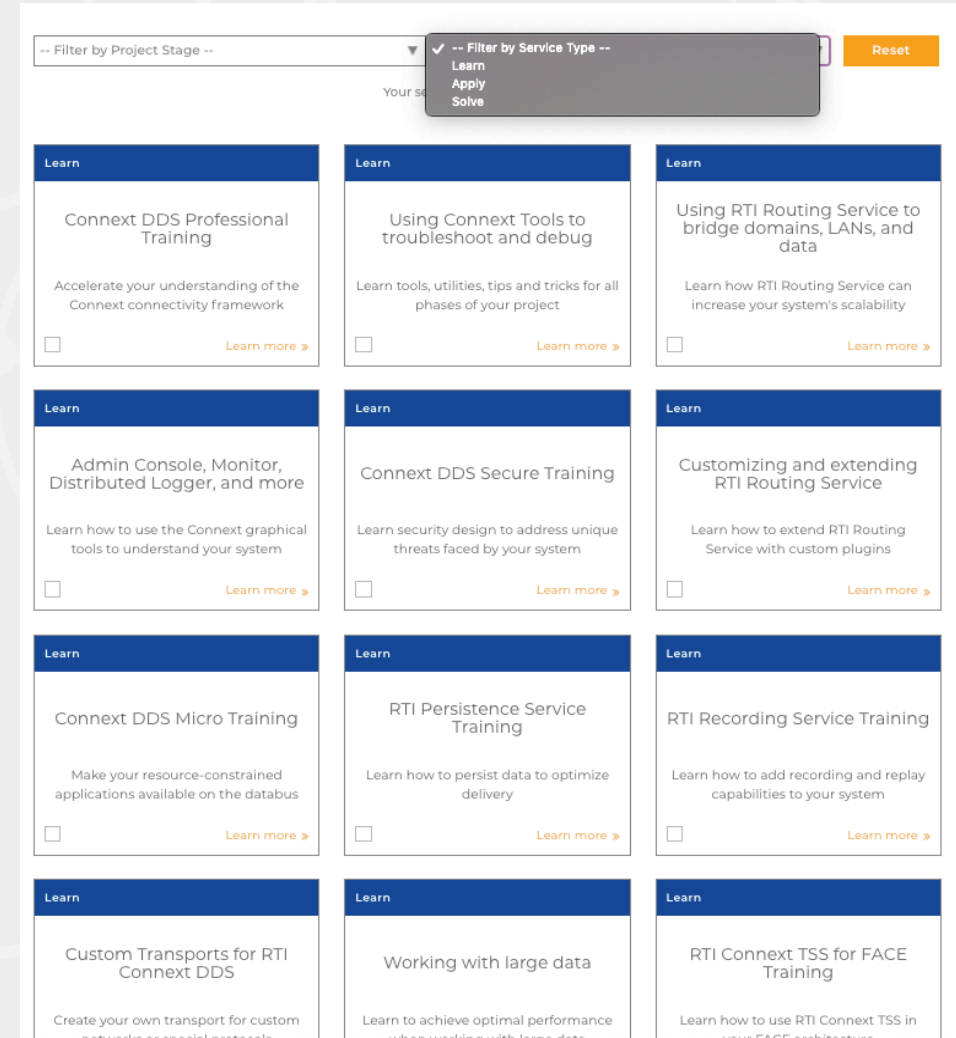
Fast & Flexible

Drive productivity and
expedite use cases in a
fast, flexible service

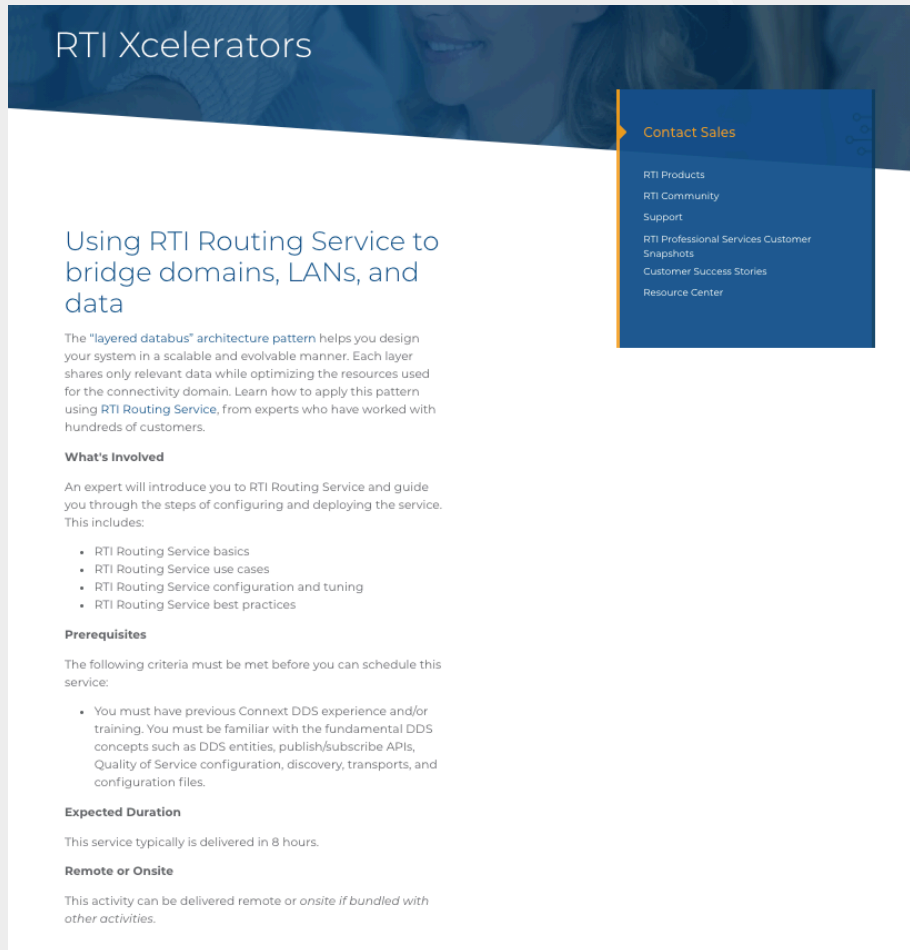
RTI Xcelerators

www.rti.com/services

- Now live on our website
- You can filter by project phase
- You can filter by Xcelerator type
 - Learn
 - Apply
 - Solve



RTI Xcelerators Description



The screenshot shows the RTI Xcelerators website. The header is dark blue with the text 'RTI Xcelerators' in white. Below the header, there's a navigation menu with 'Contact Sales' highlighted in orange. The main content area is white and features the title 'Using RTI Routing Service to bridge domains, LANs, and data'. Below the title, there's a paragraph of text, followed by a section titled 'What's Involved' with a bulleted list. Below that is a section titled 'Prerequisites' with a paragraph and a bulleted list. The final section is 'Expected Duration' with a paragraph, followed by 'Remote or Onsite' with a paragraph.

RTI Xcelerators

Contact Sales

RTI Products
RTI Community
Support
RTI Professional Services Customer
Snapshots
Customer Success Stories
Resource Center

Using RTI Routing Service to bridge domains, LANs, and data

The "layered databus" architecture pattern helps you design your system in a scalable and evolvable manner. Each layer shares only relevant data while optimizing the resources used for the connectivity domain. Learn how to apply this pattern using RTI Routing Service, from experts who have worked with hundreds of customers.

What's Involved

An expert will introduce you to RTI Routing Service and guide you through the steps of configuring and deploying the service. This includes:

- RTI Routing Service basics
- RTI Routing Service use cases
- RTI Routing Service configuration and tuning
- RTI Routing Service best practices

Prerequisites

The following criteria must be met before you can schedule this service:

- You must have previous Connex DDS experience and/or training. You must be familiar with the fundamental DDS concepts such as DDS entities, publish/subscribe APIs, Quality of Service configuration, discovery, transports, and configuration files.

Expected Duration

This service typically is delivered in 8 hours.

Remote or Onsite

This activity can be delivered remote or onsite if bundled with other activities.

- Summary
- What's Involved
- Prerequisites
- Delivery options
- Typical Duration
 - May require scoping

RTI Academy™



Training Options Available Today

**Connext DDS
Pro**
Onsite or VILT

**Connext DDS
Micro**
Onsite or VILT

**Connext DDS
Secure**
Onsite or VILT

**Structured
Training**

**Connext
Tools**

**RTI
Routing
Service**

**RTI
Connector**

**RTI
Recording
Service**

**Large
Data**

...

**RTI
Xcelerators
(Learn)**

**Custom
Training**

**Customized
Training**



Learning is Not a One-Time Event

What if your requirements change?

What if you have new members on your team?

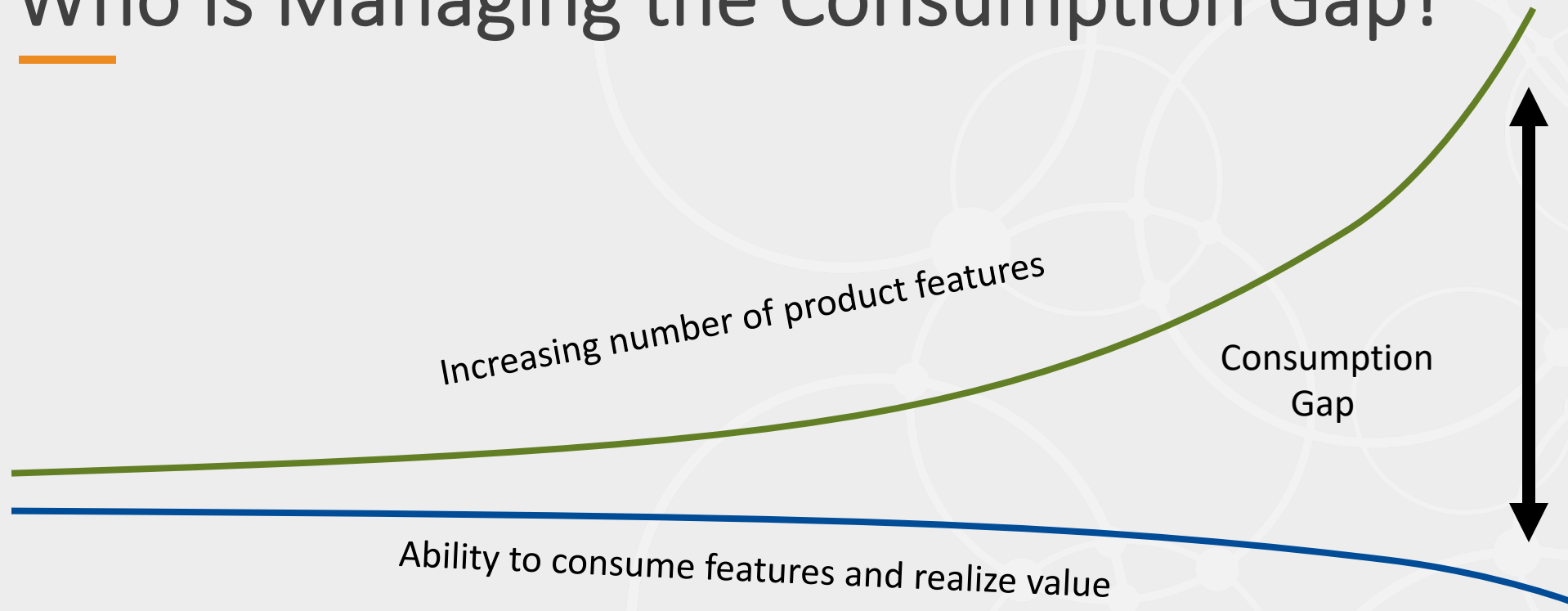
What if you need to refresh your knowledge?

What if you want to stay current on the latest features?

What if you can't block multiple days/weeks for training?

What if we can't travel to you?

Who is Managing the Consumption Gap?



Consumption Gap: The difference between the value a product **could** provide to the customer and the value it **actually does** provide.



RTI's Learning Management System

- Start designing your system by learning the fundamentals of RTI Connex DDS
- Master topics that will be important for your project
- Stay updated on features and other technologies related to RTI Connex DDS
- You can use your browser or mobile app, with offline learning


Learning Plans

Welcome to RTI Academy™ – RTI Connex Virtual Learning Platform

Fundamentals of RTI Connex

5 courses


20%

→  **Learning Plan Progress**
2h 43m | 0h 0m

RESUME WHERE YOU LEFT OFF

About this Learning Plan


Learn the fundamentals of RTI Connex and the basic concepts you need to get up and running building your system.



DDS Introduction

This course provides a very brief introduction to DDS concepts.


E-Learning



Basic Data Modeling

Learn the basic concepts of Data Modeling to properly design your DDS system.


E-Learning



Publishing and Subscribing

Learn the basics about Publishing and Subscribing to the data.


E-Learning



QoS and Application Configuration

Learn the basics about Quality of Service and how to configure your applications.

E-Learning



Connectivity

Learn the basics about how to connect your applications in your DDS system.

E-Learning

Inside a Course

Welcome to RTI Academy™ – RTI Connext Virtual Learning Platform

Components may use different programming languages

DDS X-Types and IDL4 Specifications

The diagram illustrates how components in different programming languages interact with a central Data Model (Datatype). On the left, two components are shown: 'C/C++ Component X₁' and '.Net/C# Component X_N'. On the right, two components are shown: 'Java Component Y₁' and 'Lua Component Y_M'. In the center is a box labeled 'Data Model (Datatype)' containing the following IDL4 specification:

```
struct ShapeType {  
    @key string<128> color;  
    long x;  
    long y;  
    double shapesize;  
};
```

 Arrows point from each component to the Data Model box. Above the C/C++ component is a small code snippet:

```
struct {  
    :  
}
```

 Above the .Net/C# component is a small code snippet:

```
public class {  
    :  
}
```

 Above the Java component is a small code snippet:

```
public class {  
    :  
}
```

 Above the Lua component is a small code snippet:

```
DynamicData
```

 Below the Data Model box, a text box states: 'Native type representation generated for the target programming language and they'd be asked to manipulate them in memory.'

Proprietary and not for public release

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Basic Data Modeling
ID: E-602WVX

2 / 9 lessons completed

PREVIOUS

NEXT

Why do we need a Data Model?

DDS Data Types in a nutshell

- Datatypes supported by DDS: Consts, Typedefs, Modules
- Datatypes supported by DDS: Primitives, Strings, Enums
- Datatypes supported by DDS: Arrays, Sequences
- Datatypes supported by DDS: Unions, Structs

Learning Plan
Fundamentals of RTI Connext

20% progress

2h 46m / 0h 0m

rti

RTI Academy - Launch

Early Beta – Q4 2020

General Access – Q1 2021

Will be available to all supported users

Contact your Sales Representative to learn more



Wrapping Up

The Million Dollar Mistake

“I would like to take this opportunity to appreciate your Services engineer's effort on providing his expertise in DDS to our architecture. He did a great job in reviewing our requirements and existing architecture and providing his feedback on areas of concern. He then worked with us to find solutions that minimize risk and at the same time make progress on the safety certification tasks.

It was a pleasure to have him work with our team.”

- RTI Customer

Expertise to Accelerate Your Success



Training on your schedule



Targeted, flexible Xcelerators



Proven Experience



Trusted Advisors



Accelerating your success



Your Systems. Working as One.

Try a full version of Connex DDS for 30 days

TRY CONNEXT AT
[RTI.COM/DOWNLOADS](https://rti.com/downloads)

Includes resources to get
you up and running fast



Stay Connected



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Free trial of Connex DDS



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