

# Data Distribution Service for Real-Time Systems (DDS) using Enterprise Architect

One Day Course Syllabus

## Introduction to Enterprise Architect

### User Interface

- Desktop layout
- Portals window
- Visual styles
- Commonly used Views
- Workspace Layouts, Menu Sets, and Perspectives

### Managing Projects

- Creating and opening Projects
- Creating Root Nodes, Views and Packages
- Adding Models using the Wizard
- Organizing Models with Views and Packages

### Managing Diagrams

- Toolbox
- Creation techniques
- Menu options, properties and toolbar
- Navigation between diagrams
- Floating diagrams
- Copy/paste across diagrams

### Creating Diagram Elements

- Creation techniques
- Properties
- Drag and drop

### Managing Diagram Elements

- Appearance, layering, and feature visibility
- Alignment, resizing, automatic layout
- Info view

### Deleting Model Elements

- Diagram level deletions
- Repository level deletions

### Managing Connectors

- Creation (toolbox and Quick Linker)
- Redirection
- Advanced options
- Line bends and styles
- Virtualizing Connector ends

### Managing Package Content

- Package Navigator
- Package Browser/List View

## Tool Configuration

### Defining People

- Defining general types
- Personal configuration options

COURSE LEADER

## Frank Truyen

is a principal consultant and trainer, with 20+ years of experience in the IT industry as a developer, architect, consultant and manager.

Strong expertise in different modeling notations such as UML<sup>®</sup>, SoaML<sup>™</sup>, DDS<sup>™</sup>, UPDM<sup>™</sup>, ArchiMate<sup>®</sup> and BPMN<sup>™</sup>, allied with his extensive experience in using the Enterprise Architect modeling tool, allows Frank to successfully provide training and consulting services to a broad variety of customers across many industries.

## Data Distribution Service (DDS)

Introduction

Data-Centric Publish-Subscribe (DCPS)

Publisher

DataWriter

Subscriber

DataReader

Topic

Domain

DomainParticipant

Modeling in EA

QoS Policies

Data Local Reconstruction Layer (DLRL)

Overview

DCPS to DLRL Mapping Rules

Mapping DLRL Classes

Creating a Cache

Application Model

Configuring DDS

Validating the Model

Generating a PSM and Code

Exercise

## Traceability and Navigation

Overview

The Relationships window

The Relationship Matrix

The Gap Analysis Matrix

The Traceability window

Other traceability features

## Core Tool Features

### Documentation Generation

- Template driven RTF generator
- Diagram and Package options
- Linking into Microsoft Word
- Model documents
- Master documents
- Generating to an Artifact
- HTML generator

### Document Artifacts

- Creating
- Linked Documents
- External document links

### Model Searches

- Initiating
- Configuring
- Viewing results
- Custom searches
- Other features

### Managing Baselines and comparing models

- Creating baselines
- Administering baselines
- Package comparisons
- Diagram comparisons