



Implementing Architecture Frameworks in Enterprise Architect

This one-day workshop covers the fundamentals of implementing your own Architecture Framework (AF) in Sparx Systems' Enterprise Architect (EA) modelling tool using their profile-based 'MDG Technology'. It covers: defining your own elements and connectors; defining your own diagram types; defining tailored toolboxes for each of your diagram types; configuring the Quicklinker entries for your MDG Technology.

Duration: 1 day

Introduction

- The basic elements that are needed to implement a framework in EA
- The limitations of EA's MDG Profile technology.

This introductory module outlines the elements that are needed and the basic process that is followed to turn the definition of a framework into an implementation that EA can understand, known as an MDG Profile.

Although EA's MDG Profile technology is very powerful, there are limits to what can be achieved. These limitations are discussed in order to bound delegates' expectations of what can be done.

Defining Elements and Connectors

- Defining elements
- Defining connectors
- Adding tags to elements and connectors
- A brief discussion of shape scripts

This module shows how to define the stereotyped elements and connectors that will be available in the framework, along with a short discussion on how to use shape scripts to change their graphical shape.

Defining Toolboxes

- Define element toolboxes
- Define connector toolboxes
- Nested toolboxes
- Common toolboxes

This module shows how to define the various toolboxes that EA will display when a particular type of diagram from a framework is created. In addition, delegates are shown how to create nested toolboxes (toolboxes that present additional elements or connectors from a single toolbox item) and common toolboxes (toolboxes that are defined once, but that are displayed for all diagrams).





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Defining Diagrams

- Defining new diagrams
- Associating toolboxes with diagrams

This module shows how new types of diagrams are defined, and how specific toolboxes are linked to a new diagram type.

Configuring the Quicklinker

- Defining Quicklinker entries
- Ensuring the Quicklinker does not show all the underlying UML options when used on the framework diagrams

This module shows how the Quicklinker can be configured, allowing a framework implementer to restrict the possible links and elements that can be created via the Quicklinker.

Building the Framework Profile

- Building the MDG profile
- Going beyond diagrams: adding searches, wizards & document templates

This final module shows how the definitions of elements and connectors, toolboxes and diagrams are put together to build an MDG Profile that implements the framework. Additional items, such as searches, package creation wizards and document templates can also be added to an MDG Profile, and examples are given showing how this is done.

Target Audience

This workshop is aimed at system and software engineers that have a good working knowledge of both the Sparx' Enterprise Architect (EA) tool & the SysML, and who want to define their own Architecture Framework in EA.

Benefits

The benefits of this course are as follows:

- Understanding the principles behind EA's MDG Profile technology
- Understanding the major limitations of the technology
- Understanding how to implement a framework in EA using its MDG Profile technology
- Understanding the additional items, beyond used-defined diagram types and their associated toolboxes, that can be included in a framework

Prerequisites

This workshop assumes a detailed understanding of both SysML and the Sparx' EA tool.



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Material

Delegates receive an electronic (PDF) version of the course material, together with a reference model containing the implementation of the framework used in throughout the course.

More Information

For more information on this course, or any of our other offerings, please contact Scarecrow Consultants Limited using the details above.