Introduction to MBSE with Arcadia Method and Capella Tool

Systems engineers have been making use of modeling techniques for a long time. Based on both Functional Analysis and the SysML language, **Arcadia** (Architecture Analysis and Design Integrated Approach) is a Model Based Systems Engineering method aimed at defining and validating the architecture of complex systems. After having tested the method internally, and developed an accompanying workbench, Thales has decided to make it public, through the open-source **Capella** tool (inside the Eclipse community).

This introductory training will enable you to discover the ins and outs of the **Arcadia** method and its specific modeling language. We will also focus on the benefits of a workbench adapted to the method, through examples and demonstrations of the associated **Capella** tool. A language, an approach, a tool: these are the three pillars needed for the success of the Model Based Systems Engineering (**MBSE**).

Duration: 1 day

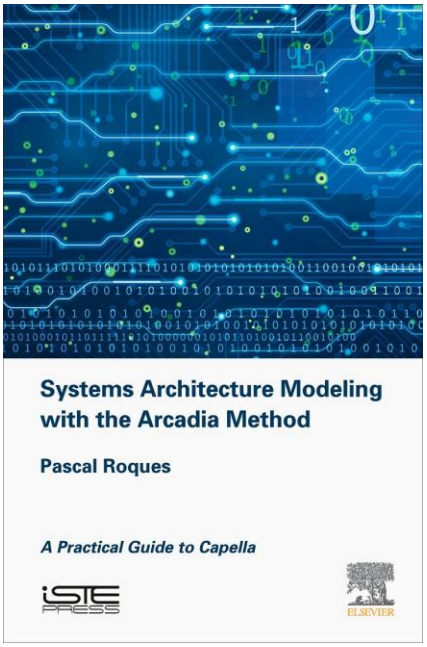
Audience:
Project managers, architects, system engineers, wishing to discover Model Based Systems Engineering through the Arcadia method and the Capella tool

Prerequisite: none

Teaching Method:

Theoretical presentation with examples

Capella tool demonstrations



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Pascal Roques Formation & Conseil

Pedagogical Program

Introduction

- System and SE
- What is a Model?
- MBSE

Arcadia Principles

- Overview
- Operational Analysis
- System Analysis
- Logical Architecture
- Physical Architecture
- Complements

ARCADIA

Capella by Example

- Tool Features
- Operational Analysis
- *Capella Demo*
- System Analysis
- *Capella Demo*
- Logical Architecture
- *Capella Demo*
- Physical Architecture
- Viewpoints
- *Capella Demo*

Conclusion

- Arcadia Summary
- Capella Highlights
- Capella Ecosystem

Capella

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