

## MBSE in action using SysML with *Cameo Systems Modeler*

**\*\*Remote\*\* (English) | 8-9 June 2021 / 16-17 June 2021 | €2350**

**-Register for this training session here -**

This detailed practical training will show you how to come up to an MBSE approach, by effectively using the **Cameo Systems Modeler** of **NoMagic / Dassault Systèmes**, through a complete case study.

In particular, you will discover the different levels of abstraction in the specification of a system by modeling in SysML language. The exercises will use all structural and behavioral modeling diagrams, including specific SysML representations, such as parametric diagram, tabular and matrix representations, and how to take into account requirements. We will mainly focus on a pragmatic approach to systems engineering by models, using a modeling tool, through exercises implementing best practices with **CSM<sup>1</sup> (MagicDraw)**.

### Duration

**4 days: 8 half day sessions (3.5h)** divided on two consecutive weeks: **June 8-9 and 16-17**

*Bonus: 1 hour private eCoaching with the trainer to discuss questions coming up after the training!*

### Audience

Project managers, architects, system engineers...

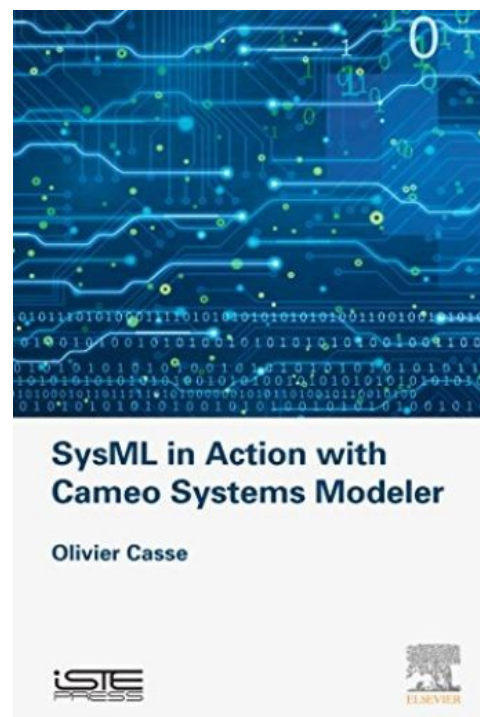
### Prerequisite

Systems engineering, modeling languages usage with any UML tool is an asset.

**CSM** installed and licensed on a PC (laptop preferred) by the trainee or its company.

### Teaching method

Theoretical presentation with examples (40%)  
Case Study done using CSM 2021x (60%)



**Note:** Dual screen is highly recommended

## Program

- **Introduction**
  - System engineering reminders
  - The MBSE
- **Overview of SysML**
  - The 9 diagrams
  - First commented example
  - We need a method !
- **First steps**
  - General presentation of CSM
  - Presentation of the case study
  - Create a project with CSM*
- **Operational analysis (OA)**
  - Presentation of the case study
  - Objectives, concepts and diagrams
  - Trainer # 1 Guided Case Study with CSM*
- **System analysis (SA)**
  - Objectives, concepts and diagrams
  - From OA to SA
  - Trainer Guided Case Study with CSM # 2*
- **Logical architecture (LA)**
  - Objectives, concepts and diagrams
  - From SA to LA
  - Trainer Guided Case Study with CSM # 3*
- **Physical architecture (PA)**
  - Objectives, concepts and diagrams
  - Trainer Guided Case Study with CSM # 4*
- **Complements**
  - Simulation with CSM
  - Documentation generation



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## At a glance

Dates	Venue	Cost	Trainer Details
2021 June 8, 9, 16, and 17	REMOTE	€2 350	Olivier CASSE
9:30 a.m. - 1:00 p.m.		per	+33 6 51 15 03 61
2:00 p.m. - 5:30 p.m.		attendee	<a href="mailto:olivier.casse.consulting@gmail.com">olivier.casse.consulting@gmail.com</a>
<u>CET/GMT+1</u>		(possible discount >2 attendees)	