



# Training M2Doc and AQL

## Course Goals

- Learn how to generate MS Word™ documents from M2Doc templates.
- Learn how to request an EMF model with AQL language
- Learn how to write M2Doc templates, possibly including Sirius diagrams

### Our added-value

The course has been designed by the creators of the M2Doc Project. Many hands-on exercises (50%)

**Duration:** 14 hours (4 half days)

**Audience:** Architects, developers

**Prerequisites:** Basic knowledge of Eclipse IDE, Java development, modeling and MS Word™.

## 1 - M2Doc overview

- The problematic of document generation
- The M2Doc solution: what it does, what it doesn't do
- Overview on M2Doc architecture

**Duration:** 1h

## 2 - Generate a document with M2Doc (end-user)

- Configure a generation
- Launch a generation
- Manage text entered manually

### Exercises

- Use M2Doc on a concrete example

**Duration:** 1h

## 3 - Introduction to meta-modeling with EMF

- Basic concepts of EMF
- The Ecore metamodel
- Links between meta-models

### Exercises

- Using Ecore Tools to discover an existing metamodel

**Duration:** 2.5h

## 4 - Navigation with AQL

- Overview
- AQL syntax
- Tuning of queries

### Exercises

- Navigation and advanced queries by using system services

**Duration:** 3.5h

## 5 - Write M2Doc templates

- M2Doc syntax
- Standard services
- Sirius services
- Declaration of metamodels, variables, etc.
- Edition of docx files
- Validation and tuning of the generator

### Exercises

- Write M2Doc templates from a sample metamodel

**Duration:** 3.5h

## 6 - Write services for M2Doc

- Specific return types
- Extension points

### Exercises

- Create a service and use it in the example

**Duration:** 2,5h

## Options

This training program can be adapted in these situations:

- For people who already master EMF and AQL

**Duration:** 7 hours (2 half days)

- For people who need to use M2Doc with Capella

**Duration :** 17,5 hours (5 half days)