ACCELEO TRAINING

Course Goals
• To be able to efficiently use Acceleo 3 with the MDE approach
• To be able to develop Acceleo 3 generation modules

Our added-value
• Training created by Eclipse committers and real EMF experts
• Many practical exercises (50%)

Duration: 3 days

Audience: Architects, Developers

Pre-requisites: Good knowledge of Java.
Basic knowledge of Eclipse and UML.

1 - Acceleo 3 presentation
• MDE Approach and the meta models
• Structure of the Eclipse Modeling Project
• Acceleo 3 and Mof-to-Text Language

Exercises
• Setting up Acceleo
• Discovery of the web site and available documents

Duration: 1.5h

2 - Acceleo from a user point of view
• Launching Acceleo modules
• MAVEN build
• Module parameterization
• User code management – incremental generation

Exercises
• Introduction to UML meta-model
• Practice on a sample module: Java generation from a UML model

Duration: 3.5h

3 - Creation of generators
• Acceleo syntax and its templates editor
• Model query instructions
• OCL and Acceleo extensions
• The Result view
• Services
• Indenting templates and generated code

Exercises
• Creation of a XHTML generator
• Advanced navigation and queries with system services
• Creation of Java classes generators
• Generation on other diagrams (activity, use-cases, …)

Duration: 10h

4 - Advanced concepts
• Refactoring utilities
• Existing modules extension and templates inheritance, the Overrides view
• The Generation Patterns view
• Advanced usage of profiler
• Packaging and deployment

Exercises
• Templates generalization and reuse
• Deploying an Acceleo generator as a plug-in
• Launching a generation via the generated Java code

Duration: 6h

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