

Unedic, France and Acceleo

### UNEDIC INDUSTRIALIZES ITS DEVELOPMENT PROCESSES AND METHODOLOGY WITH OW2 ACCELEO

#### Key Words:

- MDA
- Code Generation
- Public Sector



#### Organization

Unedic

#### Market

Public Sector

#### Status

Association

#### Mission

Manage and pay unemployment benefits

#### Objective

Decrease projects duration and risks  
Manage sub-contracting issues

#### Country

France

#### OW2 Project

Acceleo

*The Unedic chose Obeo to help them to industrialize their development processes and methodology, in order to achieve the goals of decreasing projects duration and risks as well as managing sub-contracting issues.*

#### The Company: UNEDIC

Founded in 1958, UNEDIC is the central organization managing unemployment benefits for all branches.

Unedic is continuously developing and maintaining its IT system, improving its processes and aligning its systems with new government laws regarding unemployment. Although the company was used to carry out its IT developments in-house, Unedic is now in the process of outsourcing them.

#### The Need to Optimize Outsourcing

From a technical point of view, the UNEDIC needs to make sure that the software developed by different sub-contractors will fit together as a whole from a technical and a functional point of view and that it will run properly with the existing applications.

UNEDIC is using Java EE technologies to develop its business applications, and has developed a set of architecture frameworks and a methodology to ensure those applications meet their business needs. Developing Java EE applications is quite challenging and development at UNEDIC was essentially done without the help of advanced tools.

UNEDIC expectations were the followings:

- Improve productivity and reliability as well as communication between analysis, design and development teams;
- Leverage current design methodology and architecture;
- Minimize investment and optimize ROI.

## How UNEDIC Implemented Acceleo

This project is carried out by a third party company which uses the toolset that was developed before the project started. The toolset was deployed on a UNEDIC large project (>5000 man days).

It is first used by Business Analyst who do high level modelling, and then reused for the design and development phases.



The project was completed in five months, including a one month Proof of Concept phase.

- Study of current methodology and design practices with the Unedic architecture teams;
- Design of 3 Domain Specific Modelers based on the Unedic DSL (Domain Specific Language);
- Design of Acceleo code generator modules automating code generation for the Unedic JEE architecture;
- Knowledge transfer for the generation part to the Unedic architects.

**Key Benefits** In conclusion, the Acceleo toolset proved to be a great asset to:

- Decrease costs on the whole project including technical knowledge transfer between the UNEDIC and the sub-contractor;
- Ensure that functional target is met using a new validation input: design models;
- Ensure those design models are properly aligned with the actual application using Acceleo Pro Traceability features;
- Ensure that technical targets are matched and that technical quality meets the UNEDIC requirements.

### Professional Support

#### OBEO

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### About ACCELEO

- Acceleo is an OW2 project created to provide source code generators.
- Acceleo uses the Eclipse platform and the MDA methodology (Model Driven Architecture).



More information about Acceleo is available at <http://www.acceleo.org>

### OW2

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### About OW2

Founded in January 2007 as a result of the merger of ObjectWeb and OrientWare communities, OW2 is an independent industry consortium dedicated to developing open source code middleware and to fostering a vibrant community and business ecosystem. Building on the legacy of ObjectWeb and OrientWare, OW2 federates more than one hundred organizations and 6000 developers in Europe, Asia and the Americas. OW2 hosts over one hundred technology Projects, including Lombos, Sync4j, eXo Platform, XWiki, SpagoBI and JOnAS. Several of the OW2 projects are combined into market-driven Initiatives, such as the ESB/SOA Initiative and the Business Intelligence Initiative, which facilitate their implementation by systems integrators, OEMs and end-users. A typical global open-source organization, OW2 aims to bring together grassroots communities across all continents through Local Chapters. [More information about OW2 is available at http://www.ow2.org](http://www.ow2.org)