Software migration of 4.5 million lines of code

OBEO

Customer Profile:
- major French administrative bodies
- 21'000 internal users
- 2'600 accounting officers
- 170'000 budgets processed per year

DIRECTION GÉNÉRALE DES
FINANCES PUBLIQUES

Sector: Public finances

Software Application: Hélios
Budget, accounting and financial management for the local public sector

The Need

Just as the core business application of Hélios was in the process of being rolled out in France, SUN announced the shutdown of the UDS-Forte platform, on which the Hélios business layer was based.

The French Public Finances General Directorate (DGFIP) was therefore seeking a solution to migrate its application to Java technology, without this affecting the 2,600 accounting items and 21,000 users concerned.

Requirements:
- 100% isofunctional migration
- Cohabitation of applications during the migration process
- Equivalent performance levels
- Very short delivery times
- No development freeze during the migration

To these requirements can be added major constraints in terms of architecture and the complexity of a technical code, which includes a proprietary persistence layer.

The Solution

Atos (consulting company) and Obeo jointly proposed a solution to modernize UDS-Forté towards Java and won the migration bid.

Obeo and Atos teams have therefore worked together closely to develop a migration factory, making full use of the various capabilities offered by the Obeo Agility solution:
- Reverse Modeling
- Analysis of the existing code
- Traceability
- Anomaly tagging
- Flexible configuration

In addition to the technical aspects, Obeo has proved its credentials as a genuine partner of Atos, bringing its expertise as an application migration specialist, reflected, in particular, through its rigorous control of the modernization methodologies implemented.

The Result

Obeo committed itself to a fixed fee and its responsiveness and receptiveness played a major part in ensuring the project's success. This success has further strengthened the relationship of trust that has been built up between the two parties, based on expertise and commitment.

All the delivery milestones and quality requirements have been met: the Java code generated fully meets the target architecture for optimum maintenance, and the number of manual adjustments made was less than 4.10-4 (fewer than 4 per 10,000 lines of code).

Obeo has demonstrated both its technological and methodological capacity to adjust to complex architectures, thereby delivering a highly-technical service of impeccable quality.s

A few figures
- 4.5 million lines of code migrated
- 4-year project
- Fewer than 4 per 10,000 lines of code adjusted ex-factory

"When the project was launched, we asked Obeo to prepare and industrialize the migration from the Forté application to Java using its Obeo Agility workbench. The quality of Obeo's work, along with its professionalism and its commitment to this major Conversion project deserve to be highlighted."
Pascal S. - Technical Director, DGFiP, Bureau SI1G