



Press Release

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New Technologies: Softmaint extends its FAST solution to the conversion of Cool:Gen to Java

This solution, based on process automation and the use of software allows companies to quickly move their proprietary Cool:Gen applications to more modern environments such as Java/J2EE.

FAST, automated architecture modernization

SOFTMAINT is the specialist provider of automated legacy modernization solutions, focusing on platform and data migration, and architecture transformation.

In the case of architecture modernization, F.A.S.T. -Future Architecture System Transformation- automates the entire process, from retro-modeling an existing application to generating the massive final program code in the chosen technology.

F.A.S.T. is based on a methodology and a software platform designed to perform the conversion processing towards Java or DotNet faster and with a high level of security. This approach offers a number of advantages, in particular the ability to preserve the richness and functionalities of existing applications while converting them to more sustainable or less costly technical environments.

FAST was already capable of processing languages such as NSDK, NatStar, and NatWeb Omnis. This capability now includes Cool:Gen and is currently in use for a conversion project at a large account in the banking sector.

Cool:Gen to Java: three steps

FAST provides a 3-step approach:

- **Analysis of Cool:Gen source code**

The existing Cool:Gen application platform is mapped and analyzed in order to populate the Cool:Gen metamodel. This step is completely automated, thus avoiding the risk of processing errors and significantly accelerating the analysis.

- **Conversion of the client-server model to a n-tier architecture model**

The Client-server model is then automatically migrated to the n-tier architecture target model.

The model generated XMI uses 100% of the information contained in the original Cool:Gen repository (controls, procedures, step, screen sequencing...). Thanks to this approach, a Cool:Gen event becomes a Java class usable in the new J2EE environment. In addition, development teams can capitalize on the reusability of their business processes.



- **J2EE Code generation and application testing**

A UML model is automatically generated from the n-tier architecture model and used to industrialize the generation of J2EE code. Thus, up to 80% of the J2EE application code can be generated automatically.

This generation is based on the MDA - Model Driven Architecture – approach, which enables business modeling and code generation to be mutually independent. Thus, in case of a subsequent technical change (e.g. a change to the persistence framework), the adoption of the MDA development process facilitates changes and reduces associated maintenance costs.

All business rules (algorithmic) and application ergonomics (JSP, CSS, Java Scripts) are also addressed during this phase.

Once the components have been generated, they are assembled to build the target J2EE application. The project then goes through a testing phase to control the largest possible number of features and ensure non-regression of the transformed application. Moreover, test cases can be re-executed after any technical adjustment.

Software solutions throughout the process

The process implemented by FAST is based on using two programs, developed by Mia-Software, a subsidiary of Sodifrance:

- *Essor*, a mapping and software asset analysis application. *Essor* is used for Phase 1 of the Cool:Gen source code analysis
- *Mia*, an automated development application, based on standard MDA (Model Driven Architecture). *Mia* is composed of three modules: *Mia-Transformation*, used for converting the client-server model to a UML model, *Mia-Generation*, used for J2EE code generation, and *Mia-Documentation*.

Advantages in cost and maintenance

FAST brings many advantages and meets growing challenges of CIOs to:

- Ensure a rapid and secure evolution of Information Systems
- Break away from the Cool:Gen AGL, including licenses and version upgrades required for the sustainability of the applications,
- Standardize and rationalize the application platform
- Unify application development and maintenance methods.

With this new FAST for Cool:Gen solution, SOFTMAINT continues to strengthen its offering in automated architecture transformation.

About SOFTMAINT

SOFTMAINT is Europe's leading provider of automated legacy modernization solutions. For over 15 years, SOFTMAINT Legacy modernization expertise and solutions have been dedicated to helping numerous large companies efficiently modernize their IT systems. Our expertise and automated solutions include:



- Architecture evolution to .Net, Java, Flex: our FAST - Future Architecture System Transformation - solutions
- Platform migration, database and language conversion
- Reverse documentation and technical urbanization

With over 150 projects successfully delivered and longstanding experience, SOFTMAINT provides the most comprehensive modernization approach combining solutions, methodology, industrial delivery and quality engagements through CMMI2.

SOFTMAINT is a wholly-owned subsidiary of SODIFRANCE Group, an IT services company with 15 offices in France, Belgium and Tunisia, listed on the Euronext Stock Market (Mnemonic code : SOA).

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