NEWSLETTER

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1 Model-Driven Development and Product Lines: Synergies and Experiences – Conference 19-20 October 2006

Model-Driven Development and Product Lines: Synergies and Experiences

Model-driven software development (MDSD), system families and product lines are still new methods in software engineering. What can these new development methods do for you? What is the current status, and what experiences have others already made?

Internationally recognized experts present and discuss the complete spectrum of model-driven software development and software product lines. They provide orientation guidelines for decision makers on a range of topics, including:

- Impact on the organization's IT of the introduction of MDSD and software product lines.

- Advantages of the conversion or introduction.

- Availably and maturity of the corresponding methods and tools.

- Required organizational changes and management tasks.

- Size of the necessary investment and the duration of the return on investment.

Presentations will cover proven methods, approaches, tools and tool chains, along with real-world experience on the use of the technologies and the related organizational measures.

Rüdiger Schilling, Founder and Chief Technology Officer at Delta Software Technology will report on the opportunities and risks associated with the development of project-specific generators and will lead the discussion for the Management theme.

OBJEKTspektrum: Conference Preview

In anticipation of the upcoming event, the German specialist magazine for software engineering and management OBJEKTspektrum asked some of the contributing experts for their assessments. The answers to the different aspects help with decisions on whether and how model-driven development methods and software sys-

tem families should be introduced.

Read more in the "bit-fabrik" section on pages 80 to 87 of the July/August 2006 edition of OBJEKTspektrum.

> *"I can imagine that Model-Driven Development and Product Lines can bring a quantum leap in innovation similar to that we achieved for our platform-independent product development using Delta ADSplus and SCORE."*
> **Oswald Klackl Software Engineering Manager, B+S Banksysteme**

What, When and Where?

Model-Driven Development and Product Lines: Synergies and Experiences

19 - 20 October 2006 in Leipzig, Germany

The conference is being organized by the Institute for Industrial Software Techniques e.V. in cooperation with the Institute for Information Systems at the University of Leipzig. It is particularly aimed at the senior technical level and middle management from small to medium sized software development companies, as well as at the software development departments of larger organizations.

Note: The majority of the conference sessions will be held in the German language.

Book Your Place Now!

You will find further information on the conference programme and the registration details on the conference Web site: http://www.software-families.org.

Note: The conference Web site is currently only available in the German language.

Free Article on "Model-Driven Generator Development"

Learn some more about this topic in advance. Cord Giese and Rüdiger Schilling explain in their article "Model-Driven Generator Development" the requirements for the development and use of code generators. The concepts presented offer a practical approach for the automation of software development. Download this free article now – no registration required:

Free Newsletter

Our regular newsletter delivers information on upcoming events, current projects, case studies, new product announcements and general news that we think will be of interest to you. Subscribe to our free newsletter today.

Further Information

If you would like to know more about how Delta can help you to improve the efficiency of your software development using automation, then please get in touch with us.

2 **MINT: Model-Driven Integration of Information Systems – "Software Engineering 2006" Decides Once Again for Delta's Generators**

"Software Engineering 2006" Decides Once Again for Delta's Generators

With the research initiative "Software Engineering 2006" the German Federal Ministry for Education and Research (BMBF) aims to strengthen Germany's leading position in software technology. Around one year ago we reported on our participation in the second selection round.

The "Model-Driven Integration of Information Systems" (MINT) project has now started with a kick-off meeting held in Schmallenberg, the location of Delta Software Technology's head office.

The Project

Up until now the focus of model-driven software development has been on new development. However, the integration of existing heterogeneous systems from different development cultures and "epochs" is much more problematic and critical for the enterprise as this involves the production applications.

The goal of the MINT project is the creation of an innovative model-driven software development techniques that support the integration of existing (heterogeneous) commercial software systems. By using model-driven development concepts and advanced generator technology the project aims to increase the adaptability of the software so that it is better able to thrive in a world of continuously changing business processes (for example in the e-Commerce area). In addition, organizations that develop software should also be able to increase the flexibility and efficiency of their software development process, thereby improving their competitive advantage.

Further, different techniques are to be evaluated and criteria developed to support real-world decision making

The Participants

The MINT project is being lead by the renowned "Oldenburger Research and Development Institute for Information Tools and Systems" (OFFIS).

The projects participants are:

- andrena objects AG

- BTC AG

- Oldenburg University

- Delta Software Technology GmbH

Generator Technology from Delta

Delta Software Technology will play a central role in the "Model-Driven Integration of Information Systems" (MINT) project, delivering the necessary generator technologies and tools.

The following will be used:

- **SCORE Adaptive Bridges** will be used to make existing applications and their data objects available as flexible services in new environments.

DELTA
software
technology

SCORE Adaptive Bridges offers a non-invasive integration technique that allows the use of existing data objects and application components without requiring that any changes be made to these objects. The complete integration code is automatically generated.

- **HyperSenses technology** will be used for the development of project-specific generators. Delta has already delivered the generator technology and tools for the successful PESOA project (Process Family Engineering in Service-Oriented Applications) that was a part of the first research initiative round. PESOA started in 2003 and is now in the final stages of being completed.

Next Steps?

In the phase that is just beginning the immediate next step is the definition of a platform-independent template as the basis for the automatic integration of existing data objects.

Further Information

About the project:
- Research initiative "Software Engineering 2006"
- MINT
- PESOA

About the products:
- SCORE Adaptive Bridges
- HyperSenses

Integration tasks are found in virtually every IT project. We are more than work with you to discuss the opportunites that generative technologies can offer for your project. Please get in touch with us. You

can get a first impression from our white paper "Faster ROI Through Automatic Integration of the Back-End Systems" (french: "ROI rapide à travers

> **SCORE Adaptive Bridges - Faster ROI Through Automatic Integration of the Back-End Systems** Irrespective of the proven benefits, many organisations are holding back from enterprise portal projects due to the many apparent hurdles. SCORE Adaptive Bridges from Delta Software Technology increases the cost effectiveness of portal projects through the quick and easy integration of the back-end systems. This white paper presents the key challenges that arise with enterprise portal projects and shows how SCORE Adaptive Bridges solves these problems.

l'Intégration Automatique des Systèmes Back-End"). You will find further information on our core technologies, as well as on Delta's activities in the area "Research and Development", on our Emerging

3 SCOUT² Development Platform: New Version Simplifies Information Exchange

Technologies Website.

Small Helpers Simplify Projects

An improved version of the SCOUT² Development Platform is now available with immediate effect. The new functions simplify project organization and day-to-day development work. They have already proven this in a large customer project.

Collections Bring Order and Clarity

It is commonly accepted that grouping together the elements that are required for a task makes work easier to perform. Our customers use the Collections feature of SCOUT² to group together objects of any type so that they can subsequently be worked on

Working with Collections is now even easier:

- Collections can be created by simply marking the associated elements, or by using custom search expressions and filters.
- Modules can be simply moved using drag & drop.
- The new "Pack" function helps when you are working in a mobile or offline environment. This new function creates so-called Collection Archives that not only contain the files, but also the corresponding logical information (Metadata for the modules). Just as with a suitcase, you take the things you need with you, and then bring them back again. You can consistently combine the modules when you return to the project environment. There are lots of potential uses for this new feature.
- Clarity is also provided by the ability to associate additional information with a module. This information can be displayed in the overview window and accompanies the module throughout its complete lifecycle. It is no longer necessary to embed lengthy comments within the actual source modules (which, in the case of objects types such as DLLs is not possible in any case).

Simplified Information Exchange

Working together and exchanging information are important aspects of working in a project. There are also a range of improvements here:

- Intelligent import functions that automatically recognize the type of module and incorporates the module into a Collection.
- One of your colleagues needs a module? Simply click to send the module by email.
- You need to pass on modules and associated information to other projects? The new "Pack" function delivers all the required information in exactly the right format.

New Script Functions

A range of new script functions are now available for customers that optimize their development process by extending the comprehensive standard functions of the SCOUT² Development Platform using SCOUT² scripts.

Would You Like to Know More?

You can obtain further information and the new version of our SCOUT² Development Platform from your local sales representative.

More newsletters and our newsletter administration can be found here: www.delta-software.com/newsletter