DELTA software technology

NEWSLETTER

ISSUE JANUARY 2006

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1 Our Recommendation for OOP 2006: Architecture Driven Modernization

Goals, Concepts and Benefits of Architecture-Driven Modernization

"Scalable Software Systems and Solutions" is the motto of the OOP 2006, taking place from the 16th to 20th January 2006 in Munich, Germany. The focus of the presentations is architectures and concepts that offer more flexibility and interoperability for the development of modern application systems.

With this in mind we would particularly recommend the presentation on "Architecture-Driven Modernization":

Architecture-Driven Modernization (NMI3)

Goals – Concepts – Benefits

Rüdiger Schilling, Delta Software Technology

Night School Wednesday, 18th January 2006, 18:30 – 20:00

What Lies Behind These Buzzwords?

The continual modernization of the application systems is a decisive factor for commercial success. The tasks that are involved in this are as diverse as the potential solutions. To support the analysis, transformation and generation of modernization projects, and the interoperability of the necessary tools, the new OMG "Architecture-Driven Modernization" Task Force is developing new open standards that build on the MDA strategy.

Rüdiger Schilling, Chief Technology Officer at Delta Software Technology will report on the goals, concepts and benefits of Architecture-Driven Modernization. He is an active participant in the OMG "Architecture-Driven Modernization" Task Force and regularly represents Delta Software Technology at international conferences.

Rüdiger Schilling provides planning assistance for modernization projects and is built around scenarios taken from the real-world. The presentation is aimed at IT decision makers, project managers, software architects and others who already have some experience with software architectures.

- What is the content and current status of the new OMG standards for Architecture-Driven Modernization?
- How are custom "production lines" created on this basis for software modernization?
- To what extent is it possible to automate custom software modernization projects?
- What is it possible to achieve, and where are the limits?

Not Able to Attend the Night School?

For those who are not able to make it to OOP 2006 this year to join Rüdiger Schilling in night school NMI3 (18:30 to 20:00 on Wednesday 18th January 2006) to learn about the goals, concepts and benefits of Architecture-Driven Modernization, then do not worry! We will be making the presentation materials from the night school available for download here shortly following OOP 2006. We will let you know when the download is available via this Delta newsletter and the new RSS feeds.

Further Information on OOP 2006

Have a look at the OOP 2006 programme overview and make space in your calendar to visit between the 16th and 20th January.

2 SOA and MDA: Service-Oriented and Model-Driven Strategies After The Hype – The Reality

30.03.2006 – Dusseldorf

05.04.2006 – Frankfurt

06.04.2006 – Munich

The OMG Information Days offers a vendor-independent information platform for the provision of comprehensive and expert information on current IT subjects. The focus is always on concepts, methods, tools and standards that promote the quality and security of software development. As a partner of the OMG, the OMG Information Days guarantee both timeliness and exclusivity as the German-language OMG platform.

SOA and MDA

The large amount of attention being given to service-oriented architectures (SOA) presents software engineering with new challenges. Good experience has been gained over the past few years with Model-Driven Architecture (MDA) to partially or fully generate, or at least to derive, software from models.

There are still a wide range of questions to be answered, however, including:

- What are the basic approaches and trends?
- What are the real success factors?
- What should organisations do when they are just starting to learn about the technology?
- What tools and frameworks exist?
- How is the architecture developed when using a model-driven approach?
- How do model-driven software development and service-oriented architectures fit together?

The OMG Information Days provide answers to these and related questions and are targeted at pro-

ject leaders, decision makers, IT management and technology strategists.

Model-Driven Service Enablement

Rüdiger Schilling, Chief Technology Officer at Delta Software Technology will be presenting at the OMG Information Days 2006 on Model-Driven Service Enablement. He is an active participant in various OMG task forces and regularly represents Delta Software Technology at international conferences.

Delta has a 30-year track record of successfully delivering advanced software generator technology to Europe's leading organisations. Building on this experience, Rüdiger Schilling will explain in his presentation "Model-Driven Service Enablement" the problems that arise, especially those associated with the different application architectures, and show why generators based on MDA simplify the creation of a SOA.

Further Information

More information on this event, Rüdiger Schilling's presentation and the Delta stand at the accompanying exhibition will be available on the Delta Web site here shortly. We will also keep you informed via this Delta newsletter and the new RSS feeds. In the meantime, please make space in your calendar to visit on 30th March, 5th April or 6th April. We look forward to seeing your there!

3 Generative Software Development – Meeting Point for Theory and Practice

Generative and Co-operative Software Development

Cord Giese, responsible at Delta Software Technology for research and development in the area of generative software tools, presented in a guest lecture on 11th January the latest generator concepts to a mixed audience of students and external visitors. The focus of his presentation were the reasons for the development of model-based generator technology, the functionality of HyperSenses, as well as the latest research results from the PESOA project.

Delta's products are built on advanced generator technology that implements the latest research from research partners in industry and academia. Delta makes selected emerging technologies available to the global academic and developer communities to gain early feedback and to help build rock-solid enterprise products.

The presentation from Cord Giese on the subject "Model-Based Generator Development" was part of the elective course "Generative and Co-Operative Software Development" offered by Prof. Dr. Ulrich W. Eisenecker at the Institute for Business Informatics at the University of Leipzig. The goal of generative software development is the automatic development of applications and components based on software system families. In addition to generative software development concepts such as feature modelling and frame-based generator technology, a particular focus is placed on the economical and real-world aspects, as represented by the close co-operation with partners from industry.

Model-Based Generator Development Using HyperSenses As An Example

Starting from the basic question as to why software generators are used at all, the central concepts of the HyperSenses technology were explained. This lead

to a broad review from many directions of the model-based approach to the development and use of generators. In this respect methodical approaches such as "Pattern by Example" play as important a role as the experience gained from commercial projects. To support this argument a number of case studies were presented that showed how HyperSenses has been used in real-world projects.

A further core point was the use of HyperSenses in research activities. In this respect the latest status of the generator development within the context of the PESOA project was presented in detail.

The presentation was brought to a close by positioning HyperSenses with respect to current active themes, in particular generative programming. Numerous live demos given during the course of the presentation illustrated the concepts as they were introduced.

Further Information

The guest lecture, the ANGIE and HyperSenses software made available by Delta, as well as additional material on the subject of generative software development are available on a CD that has been specially produced by Delta for the event. If you would like a copy of this CD then please use the following form.

The official Web site of the Institute for Business Informatics at the University Leipzig:

http://w3l.wifa.uni-leipzig.de

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

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Order number: NL 21'006.01 – January 2006