NEWSLETTER

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1 SOA and MDA: OMG Information Days – March/April 2006

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

Rüdiger Schilling, Chief Technology Officer at Delta Software Technology will be presenting at the OMG Information Days 2006 generative approaches to service enablement that really work. Rüdiger Schilling is an active participant in various OMG task forces and regularly represents Delta Software Technology at international conferences.

Efficient Service Enablement Using Models and Generators

Service Enablement closes the gap between the business processes and "data processing". It is hereby necessary to unify the extremely diverse architectures, development paradigms, platforms etc for the existing applications, to enable the cost effective reuse and consistent further development within the context of a flexible SOA.

Even when the technical details might suggest that the problem can be solved by using simple low-level technical tools, the overall scope, quality requirements and security needs clearly call for a model-based approach. Generative tools based on the Model-Driven Architecture (MDA) and Architecture-Driven Modernization (ADM) are needed to keep up with change driven by agile business processes.

The presentation explains the tasks and obstacles that need to be overcome during service enablement, and presents concepts and tools that help to reach the SOA goal quicker and more securely.

OMG Information Days

The OMG Information Days offer 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.

OMG SOA and MDA

What, When and Where?

Delta will be presenting and exhibiting at the upcoming OMG Information Days being held at three convenient locations throughout Germany:

30.03.2006 – Dusseldorf

05.04.2006 – Frankfurt

06.04.2006 – Munich

Book Your Place Today!

As a platinum sponsor of the OMG Information Days 2006 Delta is pleased to be able to offer you a special discount of €70 off the regular price of €359. Take advantage of this special offer by booking your place for just €289 today.

NOTE: Remember to mention "Delta Software Technology" when making your booking to ensure that you benefit from the platinum sponsor discount!

Free Article on Generating Services

Martin Herbst and Rüdiger Schilling explain in their article "Services – Where To Get Them? Generating Is Better Than Programming" the problems that arise, especially those associated with the different application architectures, and show why generators simplify the creation of a SOA. Download this free article now and see what service enablement is really about – no registration required:

Free Newsletter Subscription

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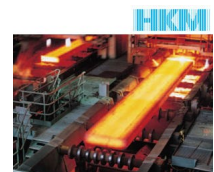
Further Information

If you would like to know more about OMG Information Days or how Delta can help you to service enable your legacy applications then please contact your local sales representative.

2 Hüttenwerke Krupp Mannesmann Selects SCORE Adaptive Bridges for "Online Steelworks" Project

SCORE Adaptive Bridges Generates Bespoke Data Services

Hüttenwerke Krupp Mannesmann (HKM) – "Hüttenwerke" is German for steelworks – has been using Delta's development tools for more than 25 years and has now once again selected a new tool from Delta. HKM will be using the new service enablement tool SCORE Adaptive Bridges from Delta Software Technology as the core development tool for their "Online Steelworks" project. The goal of this ambitious project is the modernization and enhancement of the online system for the management and control of the central steel production processes.

Hüttenwerke Krupp Mannesmann's plant is located in Duisburg, the steelmaking heart of Germany's Ruhr industrial region. With its 3,250 employees, the company produces significantly more than five million tonnes of steel there each year, equating to approximately every 8th tonne of crude steel produced in Germany.

HKM has selected SCORE Adaptive Bridges to generate the approximately 450 data access servers to manage all aspects of data access to the production data. All of the date required by the "Online Steelworks" project Is stored in an Informix database running on 64-bit Prime Power servers from Fujitsu Siemens under Solaris. SCORE Adaptive Bridges reduces the software development required for the data access to a simple declaration of the access structure. Equally simple as the creation is the subsequent maintenance. This allows HKM to match the server to the exact requirements of the application, and so to define as few, or as many, data access servers as the application needs. The design of the application and the assembly of the appropriate application architecture are independent of the number of servers and their implementation.

The complete data access code is 100% automatically generated by SCORE Adaptive Bridges and made available as custom services that meet the exact needs of the specific client programs that are being modernized and enhanced for the project. By the way, these online client programs will also be generated, for which HKM's will be using the Delta products SCOUT² and ADSplus that have been successfully used by HKM for many years. HKM works with clearly defined interfaces between the clients and data access services, enabling HKM to optimize their complete development process.

> *"One of the key reasons we have selected SCORE Adaptive Bridges is that we can make our mission-critical applications available as services that we can quickly and easily reuse – without any extra effort – in other contexts, for example in a Service-Oriented Architecture, Enterprise Portals etc."*
> **Gerhard Batiajew, CIO, HKM**

HKM has already completed 11 projects with a predecessor product to SCORE Adaptive Bridges. Example projects include:

- A long-term archive of production statistics

- A calculation system for raw materials planning

- An administration system for transport systems within the plant

- A shipping logistics system in co-operation with the port of Rotterdam

These projects have already demonstrated the significant value to application development of completely generating the data access.

About HKM Hüttenwerke Krupp Mannesmann

Since its formation in 1990 by Krupp Stahl AG and Mannesmannröhren-Werke AG, HKM has increasingly specialized in the production of slabs for flat products and in steel rounds for tube-making. The range produced thus corresponds predominantly to the needs of the present-day shareholders – Thyssen Krupp Stahl AG (50%), Mannesmannröhren-Werke AG (20%) and Vallourec & Mannesmann Tubes SA (30%). HKM produces more than 1,000 different grades of high-quality steel that meet the most stringent quality specifications, for example, those demand by the automotive industry.
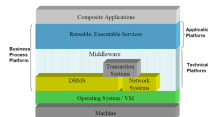
Further Information

You can profit from your proven IT applications with SCORE Adaptive Bridges. If you would like to learn more about how Delta can help you then please contact your local sales representative.

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3 Business Process Platforms will enable directly executable process models

OMG's MDA expert (now at SAP Labs) explains the benefits of Business Process Platforms

David S. Frankel, Lead Standards Architect for Model Driven Systems at SAP Labs, the development laboratory for SAP, reported in his very interesting article published by "Business Process Trends" on the rise of a very promising new development concept – "Business Process Platforms" – that serve as the foundation for directly executable business process models.

A prerequisite for this is a clear separation between the "Technical Software Platform" and the "Application Platform":

- **Technical Software Platform** – A set of technical capabilities that are packaged so that application developers can use them to build applications more easily than would otherwise be possible. It includes database and network management systems. It also includes middleware that manages transactions, componentization, security, persistence, data transformation, web services, and so on. The steady rise in the abstraction level of technical software platforms has enabled a similar rise in the abstraction level of programming languages and model-driven development tools.

- **Application Platform** – Consists of frameworks of reusable, executable business-oriented services (for example, a "post-to ledger service") and exe-

cutable business processes composed of multiple services, such as an order entry process. Application platforms enable a further rise in the abstraction level of model-driven tools that compose services into more complex services, processes, and applications. An application platform sits on top of a technical software platform.

Download David Frankel's article in MDA Journal from Business Process Trends

David Frankel's article introduces "Business Process Platforms", a new type of platform that makes a clear separation between the "Technical Software Platform" and the "Application Platform."

Service Enablement and SCORE Adaptive Bridges

The focus of Business Process Platforms is on reusable business-oriented services. The question arises, however, where do these services come from? In most cases the functionality and data provided by existing applications will be used for the development of these services.

The service enablement of existing IT applications is exactly the job for which SCORE Adaptive Bridges from Delta Software Technology was developed. SCORE Adaptive Bridges is therefore the ideal solution for developing the reusable business-oriented services that you will need for future Business Process Platforms.

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About David Frankel

David Frankel is an expert in the architecture, design, and development of complex, large-scale distributed enterprise computing systems based on component and Internet technology. He has served several terms as a member of the Object Management Group (OMG) Architecture Board and was a major player in the launch of the OMG's Model Driven Architecture (MDA).

About Business Process Trends

This article appears on the "Business process Trends" Web site (http://www.bptrends.com). The Web site provides comprehensive information on all aspects of the IT subject area "Business Processes." The focus is on new trends, development directions and best practices.

Further Information

You can profit from your proven IT applications and improve support for your business process using SCORE Adaptive Bridges for service enablement. If you would like to learn more about how Delta can help you then please contact your local sales representative.

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