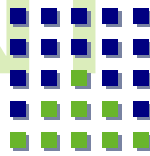


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Case Study SCHORCH

**Schorch quickly and easily integrate
their mainframe legacy applications
into their enterprise portal using
SCORE Adaptive Bridges – Express Edition
from Delta Software Technology**

“After only a few steps I could already imagine the structure of the complete integration project.”

***Gerd Dietrich,
Application
Development
Manager at
Schorch***

Schorch, an electrical engineering manufacturer located in Mönchengladbach Germany, has made the strategic decision to deliver their legacy production management applications through their enterprise portal.

This case study presents Schorch's experience using SCORE Adaptive Bridges – Express Edition: strategically important business functionality was quickly and easily usable in their JSR 168-compliant enterprise portal – without making any changes to the legacy applications.

SCORE® Adaptive Bridges™



SCHORCH ELEKTRISCHE MASCHINEN UND ANTRIEBE GMBH

Schorch is an electrical engineering company specialising in the manufacture of large electric motors. They are located in Mönchengladbach Germany and have 500 employees. Schorch is part of Lindeteves-Jacoberg, a diversified industrial group listed on the Singapore Stock Exchange, with interests in electric motor businesses in China, Australia, Germany, Italy and the UK.

Schorch has invested heavily over many years to build custom production management applications that run on Fujitsu-Siemens BS2000 mainframes with the OSD operating system, openUTM TP monitor and SESAM SQL database. The 750 online programs in the production management application support 200 end-users and are critical to the successful operation of the Schorch business.

THE CHALLENGE

In April 2004 Schorch made the strategic decision to retain and reuse the functionality of their existing custom production management applications. These are proven and flexible applications that are an exact match to Schorch's requirements. The non-production management aspects of the business are implemented using standard packages from SAP.

The challenge for Schorch was how to integrate their existing mainframe-based production management functionality into a range of new applications and platforms, starting with their enterprise portal.

The situation was complicated because while the IT team at Schorch has vast experience with BS2000 and the production management applications, they have little experience with client-side technologies such as Java, JSP, .NET or ASP.

Schorch was therefore looking for a solution that would allow them to quickly and easily integrate their mission-critical legacy functionality to their enterprise portal project, taking into account the available experience of their IT team.

A further issue was that while it was likely that Schorch will move from BS2000 to another platform in the future, it was not known what that platform would be, and certainly not what type of client technologies would be involved. Schorch could not afford to wait until these technical issues were resolved. They needed to start integrating what they had.

THE SOLUTION – SCORE ADAPTIVE BRIDGES

Version 3.0 of SCORE Adaptive Bridges from Delta Software Technology enables the direct usage of legacy functionality in enterprise portals. The product quickly and simply integrates strategic legacy applications and databases into JSR 168 compliant enterprise portals, and other similar high-visibility and high-value projects.

After only a few hours using SCORE Adaptive Bridges – Express Edition, Schorch was confidently generating “ready to run” JSR 168 Java portlets. SCORE Adaptive Bridges automatically deployed these portlets into the eXo enterprise portal where they were run with a UPIC connection to the legacy BS2000 applications.

“Our BS2000 applications are being revived by being usable in our enterprise portal.”

Dr. Eckhard Otto, CIO at Schorch

BUSINESS BENEFITS

In a post-project review Schorch identified a range of business benefits from using SCORE Adaptive Bridges to deliver the functionality of their existing BS2000 mainframe production management application in their enterprise portal, including:

- **No Changes to Existing Applications** – SCORE Adaptive Bridges is a totally non-invasive solution, removing the need to re-test the existing mainframe applications. No changes were needed to the existing BS2000 production management applications to integrate with the enterprise portal.
- **Providing Production Management Functionality to Subsidiaries** – Schorch is investing heavily in building capacity in Eastern Europe and China. Using SCORE Adaptive Bridges opens the way to making key elements of the production management applications available to these remote users via the enterprise portal. This is a more economic and reliable approach than training how to use the BS2000 terminal interface to the legacy applications and providing the supporting technical infrastructure. By reusing the existing production management functionality Schorch is maximizing their return on existing investment in the production management applications.

“SCORE Adaptive Bridges lets us ‘build bridges’ between the old and new worlds – without detailed technical skills in the middleware or portal environments.”

***Gerd Dietrich,
Application
Development
Manager at
Schorch***

- **Providing Customized Services to Customers and Partners**
 - There are many aspects of the production management applications that Schorch would like to make directly available to customers and partners, without the time, training expense and operational risk of exposing them to the “raw” application. Using SCORE Adaptive Bridges it is now easy for Schorch to create custom Adaptive Services for each partner or customer requirement and then to make these services available through the enterprise portal. Each user gets only the data that they need. All the interfaces are maintained in the logical model and Schorch does not end up with an “interface jungle”.
- **Enabling CAD Integration** – SCORE Adaptive Bridges enables the existing production management applications to be easily integrated with the Schorch CAD system and other manufacturing processes. Such integration with the CAD system had previously not been considered feasible with the legacy BS2000 mainframe applications.
- **Decoupling of Business and Technology Decision-Making** – Schorch knows that the existing BS2000 platform will be replaced in a few years, but does not know for sure with what. SCORE Adaptive Bridges works at the logical level and automatically generates platform-specific adapters and proxies. This allows Schorch to start integrating with the existing BS2000, knowing that the adapters can simply be regenerated for one or more new server and/or client platforms in the future. This separates the business and technical decision-making processes about future platforms and ensures long-term investment protection.

- **Clear Separation of Roles** – Schorch has little experience with client side technologies and was concerned about the investment needed to get up to speed in these new technologies. SCORE Adaptive Bridges handles all of the technical concerns “out of the box” and allows the Schorch IT team to concentrate on defining the business functionality to be provided to the client applications. The clear separation of roles makes staffing client-side development much easier. They do not need to know anything about the legacy applications or the middleware. SCORE Adaptive Bridges provides the shared services vocabulary for both “worlds” to understand each other.
- **No Modelling Overhead** – SCORE Adaptive Bridges takes a pragmatic approach and does not require any top-heavy modelling. Having worked through the standard tutorial, the concepts of SCORE Adaptive Bridges were quickly understood and Schorch was able to start defining the Adaptive Services for their production management application. No time was lost having to perform complex or time consuming modelling tasks.
- **Run-Time Performance** – SCORE Adaptive Bridges includes a variety of standard of optimization approaches to reduce network traffic, keeping state information on the server and not transferring to the client or middle tier application for every interaction. Schorch described the response times for the production management functionality accessed via the enterprise portal as “excellent.”

- **No Need To Write Custom Test Clients** – The developer does not need to spend any time creating or updating special test clients. SCORE Adaptive Bridges generates a complete test portlet for each Adaptive Service, allowing the developer to immediately check that the connection to the legacy application is working and providing the expected results. SCORE Adaptive Bridges ensures that a complete and accurate test client is always available, and that it is totally consistent with the generated client proxy and server adapter.
- **Enhanced Interface Standardization With Add-On for Delta/ADS** – The legacy COBOL production management applications on the BS2000 are not hand-written; they are generated using the Delta/ADS application development product from Delta Software Technology. Schorch has been a Delta/ADS user since 1987. As the existing applications are generated and not hand-written, Schorch was able to benefit from a Delta/ADS add-on that makes a standard interface available to SCORE Adaptive Bridges. This saves time and effort in discovering the interfaces to the existing applications.

Using SCORE Adaptive Bridges Schorch was able to generate a fully functional integration solution to connect their Java-based eXo enterprise portal with the COBOL applications on BS2000.

An initial estimate from the Schorch team members was that it would have taken at least 10 times longer to create an equivalent solution by hand, and even this was an optimistic estimate given the current lack of experience with client-side technologies within the Schorch IT team.

SUMMARY

Schorch's experience using SCORE Adaptive Bridges – Express Edition: strategically important business functionality was quickly and easily usable in their JSR 168-compliant enterprise portal – without making any changes to the legacy applications.

Working with Delta Software (Deutschland) GmbH, Delta's distributor in Germany, Schorch was able to verify the functionality of SCORE Adaptive Bridges – Express Edition and to see for themselves how quick and easy the product is to use.

Schorch now has a solid basis for the detailed planning of their enterprise portal project, safe in the knowledge that using SCORE Adaptive Bridges eliminates the legacy integration risks.

“Making infrastructure decisions is much simpler due to the platform independence of the services: we create the model only once and can then produce adapters for every portal environment and every middleware at the press of a button.”

Dr. Eckhard Otto, CIO at Schorch

DELTA SOFTWARE TECHNOLOGY

Delta Software Technology creates the world's leading family of generative software tools that maximize your return on existing investment (ROEI) in your unique and valuable application assets. Delta's family of products help you to profit from, care for, renew and grow your existing application assets:

- **SCORE® Adaptive Bridges™** – The quickest and easiest way to deliver mission-critical legacy functionality to enterprise portal projects.
- **SCOUT2™** – Stop “fighting the infrastructure”. Maintain your application assets in a simple and cost-effective way.
- **SCORE® Transformation Suite™** – Liberate your application assets from old implementation technologies and deployment platforms.
- **ADSplus™** – Grow your existing application assets. Add new functionality to your application assets using existing technologies and platforms.

Delta has 25 years experience in creating enterprise class application development and integration technology for more than 750 customer installations. Delta is a privately held German company with partners throughout Europe.

Please visit our Web site if you would like further information about our products and services, or to locate your local sales partner.

www.d-s-t-g.com

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