

Project Note

Convenient processing of securities transactions

The project involved a new system intended for processing the accounting data for securities transactions. Zühlke assisted Raiffeisen with requirements engineering, the creation of the architecture and the development of the core application.

Task

A Swiss bank had outsourced the handling of its securities business to a specialised company but continued to take care of posting entries in the books for customers and other banking functions. The two systems were to be integrated by means of a centralised solution that would accept and process the corresponding accounting data and then pass it on to the responsible target systems. Zühlke designed the architecture, acted as technical manager and created the control components. The overall system was implemented in cooperation with a development team of the customer and was the first application implemented based on a newly defined application platform for Java EE developments.

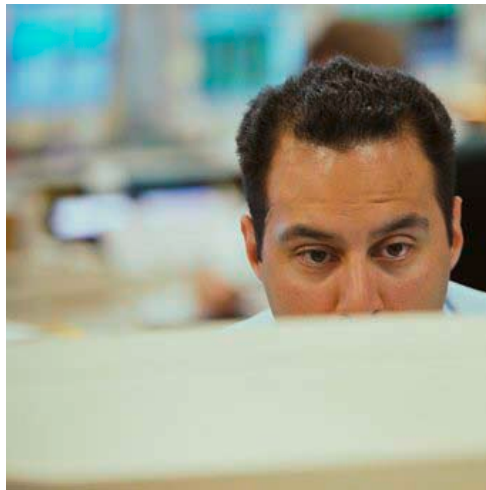
Implementation

Together with the customer Zühlke analysed the technical and banking requirements. Based on their findings, the team developed the architecture for the technical system and software.

Following a design phase, the system was created in three main iterations:

1. Technical breakthrough with the interfacing of output management,
2. Accounting logic/accounting and
3. Processing of corporate actions and interfacing of several small systems.

The open system (in a hub-and-spoke architecture) was integrated in a legacy asynchronous middleware (ESB). The customer can therefore add new processing modules without having to modify the control system. Special attention was paid to automated testing, error handling and the monitoring of the system.



RAIFFEISEN

Technical Data

- Java EE
- Servlets
- Message-Driven-Beans, JMS and Webservices (SOAP/WSDL)
- Eclipse/Rational Application Developer
- WebSphere, DB2
- Hibernate
- XML Spy/Castor
- JUnit, Clover
- Log4j

Customer benefits

- Zühlke provided Raiffeisen with effective support for the key tasks, thus enabling a critical system to be completed on schedule and within budget.
- The customer received the best possible transfer of expertise thanks to the advice, support and implementation work Zühlke provided on site throughout the entire development phase.

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