

Project Note

A Study for Service Oriented Architecture (SOA)

As part of the Proof of Concept for a Service Oriented Architecture (SOA) a feasibility study was undertaken. Supported by different prototypes it showed what is technically feasible and economically useful.

Task

A leading agricultural business enterprise needs a feasibility study (Proof of Concept) as a basis for a decision to introduce an SOA with Web services. It is to show what is technically possible today and what the limitations are. In addition, Zühlke is to give recommendations for the implementation and introduction of the new software.

Implementation

First, the project team and customer compiled and documented the requirements for an SOA implementation. The SOA is to be implemented with Web Services and the following Quality of Services: Single Sign-On (SSO) with Kerberos, Reliable Messaging, Long Running Transactions and Compensation. Services should be able to be "orchestrated" to a business process without traditional programming using the Businesses Process Execution Language (BPEL). The customers' specialist would like to use the established development platforms .NET and J2EE also to further the implementation of services. They represented the technical aspects with different prototypes and examined the functions. A project plan pointed out, how all points can be worked on in a short period and with fixed budget. Zühlke documented the results and recommendations in an extensive study and presented it to the customer's architecture committee.



Technical Data

Platform:
.NET Framework on Windows, JBoss on Linux and Windows

.NET Development:
VisualStudio.NET, WSE

Java Development:
Eclipse /MyEclipse Plug-in, JWS DP

Integration Tools: MS BizTalk Server, Oracle BPEL Process Manager

Database:
Oracle Database

Customer benefits

- During Proof of Concept, the broad know-how of Zühlke personnel made it possible to treat all customer requirements competently and well balanced.
- Existing SOA know-how within Zühlke added to the achievements.
- The recommendations are objective, long term and portable due to the neutral selection of products

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