

Project Note

Integration architecture for deposit clearing in Germany

Processing refundable deposits for disposable containers generates high data volumes. Zühlke developed an appropriate scalable integration architecture up to proof-of concept for a service provider.

Task

GETEC Daten und Abrechnungsmanagement GmbH wanted to extend its portfolio by providing services to assist in the refundable deposit system for a leading German chain store. The IT platforms for these new services included deposit-return machines, counting centres as well as internal and external systems for master data maintenance, invoicing and accounting.

Zühlke was able to assist the customer in designing the integration architecture based on Microsoft BizTalk and at the same time train the customer team to independently continue the development.

Implementation

With guidance from Zühlke the team first modelled the core and master data, recording dataflows and clearly documenting the processes and tasks involved. This enabled the derivation of key specifications, the logical architecture and the interfaces of the new clearing system.

With the logical architecture defined, specialists could then compare various options for implementation, taking into account additional non-functional requirements and constraints.

A combination of technologies proved the ideal solution:

- BizTalk for communication with neighbouring systems
- MS SQL server including integration services for data-intensive processing and data transport.
- In-house C# development for custom components, for example for checking electronic signatures.

A proof-of-concept implementation demonstrated the feasibility of the chosen architecture. By working closely with the customer team, Zühlke was able to ensure a successful transfer of know-how.



GETEC | DATEN- UND
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MANAGEMENT
GmbH



Technical Data

.NET / C#

BizTalk

X.400, SFTP, SAP,
Navision

MS SQL Server
Integration Services
(SSIS)

Integration Framework
ZAFIR®

Customer benefits

- The customer received a tested integration architecture for his new area of business at a very early stage of development.
- With the help provided through co-operation with the Zühlke experts, the customer's team became directly acquainted with the selected technology and the team were then able to apply the knowledge so acquired to other projects.
- The architecture proposed by Zühlke was cost-effective and fit-for-purpose.

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