



## Openness, Fairness and Transparency

# Hypo Real Estate

HOLDING

Hypo Real Estate Holding AG is a strategic and financial holding company which does not have any banking operations.

The central functions of the holding company comprise access to the equity and debt markets as well as strategic management of the Group. The Group entities are thus able to focus completely on their operations.

All corporate centre functions relating to the Group as a whole are concentrated in the holding company. The Group Corporate Office via its Investor Relations and Press/Communications departments represents the Group externally.

The holding company also houses central finance and accounting, risk control, the central legal and tax department as well as Group Human Resources.

The Hypo Real Estate Systems GmbH (HypoSystems) is a subsidiary of and IT service provider for Hypo Real Estate Holding AG, Munich. Hypo Systems develops and maintains an application called PARIS which is a software for real estate banks and is used by customers that belong to the concern as well as by three other banks that are not part of the group.

HypoSystems is located in Stuttgart and operates an IBM mainframe of type z-Series. The operating system is z/VSE. The IT team of HypoSystems consists of approximately 70 employees in Stuttgart and 30 in Munich. The core application of HypoSystems is PARIS. This application consists of host programs (batch and online) and JAVA-applications. The 3270 screens of the host online-applications have been replaced by graphical interfaces. It is completely transparent for the end user to which platform he is connected to. The production data of PARIS is kept in DB2 databases. Every connected customer uses his own, individual DB2 database. The decentralized environment consists of WINDOWS- or SOLARIS-systems with DB2 UDB.

Juergen Bertram, Project Manager of PARIS, remembers: "We had built a Data-Warehouse (DWH) for our customers and we were looking for a solution that could automatically capture all changes applied to our DB2-tables and propagate them to our DWH-system. One of our business partners pointed our attention to B.O.S. Software."

The contact to B.O.S. was established and shortly afterwards a presentation of tcVISION was scheduled in Stuttgart. Mr. Bertram: "It was our intention to process the DB2 logfiles, identify the changes and propagate them into the target systems. That exactly was the scope of tcVISION. We came to an agreement with B.O.S. that we would perform a BETA-test of this implementation at our installation."

In the middle of 2005 tcVISION was installed and consultants of an external company performed the tests and the implementation of tcVISION.

Juergen Bertram: "The cooperation with B.O.S. during the Beta-period was outstanding. Both parties understood their common and mutual goals. All technical roadblocks that came across have been removed successfully. This positive experience and the scope of functions delivered by tcVISION lead to our decision to use tcVISION for our data-synchronization requirements."

Every day tcVISION identifies the deltas from the DB2-tables and transfers them to the target-systems and – databases. Juergen Bertram: "The performance of tcVISION is excellent. The synchronization with the tables in our decentralized environment easily fits in our batch window."

The synchronization process is initiated by automatic procedures. If table structures have been changed, a Change Management Process decides, whether the deltas should be identified or whether the tables should be reloaded. Every day 700 DB2-tables are processed by tcVISION using the change data capture mechanism or the Bulk-transfer feature of the product. Juergen Bertram: "Organizational changes in the group replaced the Data-Warehouse by an Operational Data Store. tcVISION also does the job in this new environment."

After more than one year of experience with tcVISION Mr. Bertram draws a conclusion: "We are very happy with tcVISION. Our expectations have been met. B.O.S. is a partner to us that has assist us in a competent and helpful manner. We are anxious to learn how the future of tcVISION is going to be."

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