



In The Middle Of Life – In The Middle Of Business

BAWAG P.S.K. is one of the largest and most profitable banks in Austria with more than 1.6 million private and business customers and a well known brand in the country. The business strategy is oriented towards low risk and high efficiency. Business segments are Retail Banking and Small Business, Corporate Lending and Investments and Treasury Services and Markets. The centre of the BAWAG P.S.K. business strategy are easy to understand, transparent and first-rate products and services which meet the requirements of the customers.



The BAWAG P.S.K. Bank für Arbeit und Wirtschaft and Österreichische Postsparkasse Aktiengesellschaft (P.S.K.) in Vienna, Austria operates an IT with the z/OS operating system. The business data is stored in DB2 databases. ORACLE is the database platform for the Open System environments.

Due to another project, P.S.K already had a client component of tcVISION installed. Magister Markus Lechner, Head IT Applications, "tcVISION was already in use and we had made very good experiences as far as functionality and support from B.O.S. Software was concerned. Since we were in the planning process for the implementation of another project, we included tcVISION in the list of software solutions. The goal of this project was the reduction of the load on the IBM mainframe and consequently the reduction of costs. The plan was to offload data from our core database system to a less expensive system in real-time and to transfer read operations to the new infrastructure. Cause for this were the constantly increasing CPU costs on the mainframe due of the growing transaction load of the Online Banking, Mobile Banking and Self Service devices. A large percentage of the load was caused by Read-Only-Transactions."

B.O.S. Software was invited to present the solution in detail. Markus Lechner, "After the presentation, we arranged a proof of concept with B.O.S. The important aspects of the POC were not only the functionality of tcVISION within the project but we also wanted to see whether our expectations regarding performance and CPU consumption on the mainframe would be met. In addition to tcVISION, we also evaluated another product. All of our expectations were met completely during the POC and we made the decision to go ahead with the B.O.S. solution."

The project has been in production for a year. Markus Lechner describes the project, "The primary objective of the project with tcVISION was the reduction of CPU load on the mainframe to reduce our costs by offloading data from our core database system to a less expensive system in real-time to transfer read operations to the new infrastructure. We use tcVISION for the real-time replication and we use *Apache Hadoop* as a cost efficient system for the storage of the data. This can cover additional use cases, such as Real-time-Event-Handling & Stream Processing, Analytics based on real-time data as well as the possibility to report and analyse structured and unstructured data with excellent performance. The system can be inexpensively operated on Commodity Hardware and has no scalability limitations. Considering the savings, the costs of replication (CPU consumption) with tcVISION are very low.

The support provided by B.O.S. was excellent during the implementation phase and also during the production phase. Inquiries by telephone or E-mail caused prompt reactions. Problems that came up during this period were solved as soon as possible."

There are additional plans to extend the use of tcVISION in the future. One is to implement a real-time replication from ORACLE into the data lake.

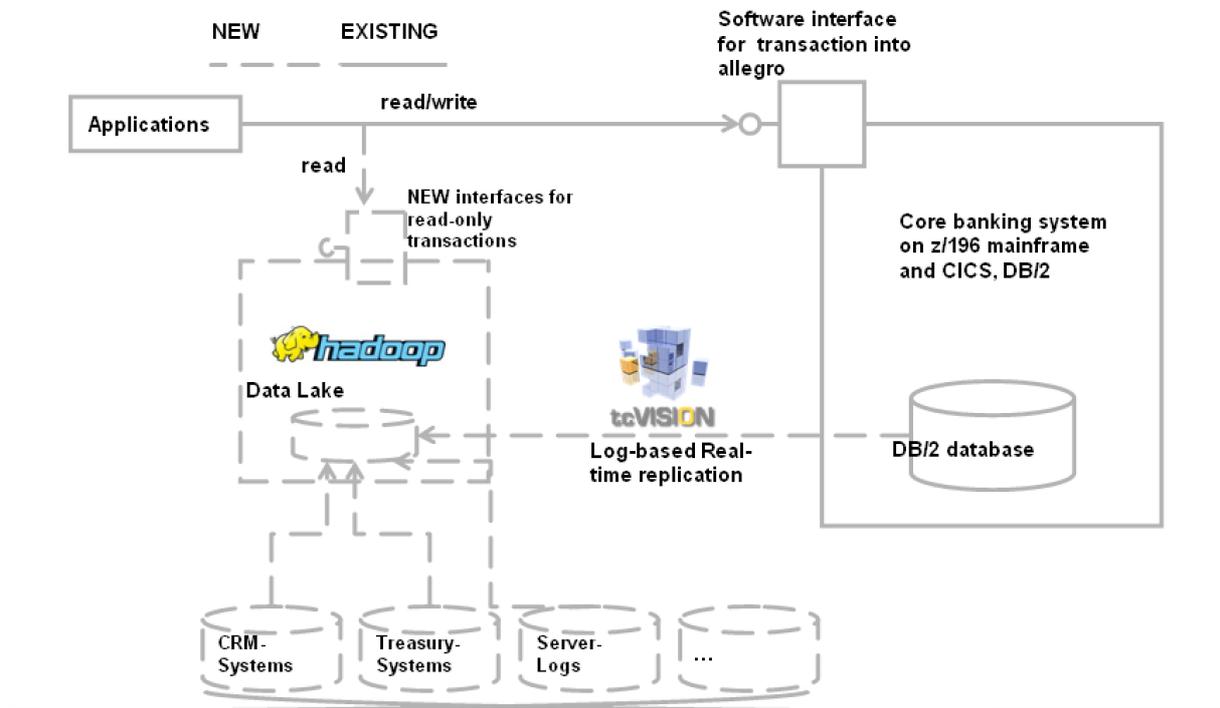
Magister Markus Lechner draws a conclusion, "tcVISION enables us to significantly reduce our mainframe costs through a real-time replication to a less expensive environment. tcVISION performs a very economical log file based replication. Beyond this, we are now in a position to implement numerous application cases based on the replicated data which would be too expensive on the mainframe. Real-time event handling, real-time analytics and real-time fraud prevention are only a few of the use cases we currently cover."



Beyond Traditional Data Integration

Architecture

□ Data Lake Architecture with Apache Hadoop



Data from various sources to be stored in Data Lake – depending on use cases

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