



Beyond Traditional  
Data Integration

## Competence – Innovation – Dedication – Success

***Österreichische Wertpapierdaten Service GmbH (ÖWS) is the central institution in the field of securities for virtually all banks in the Austrian market. The company stands for the ideal supply of data for security transaction.***

***ÖWS develops enormous savings potential for the customers through the central procurement, maintenance and distribution of data.***

***The company's focus areas are the constant development of quality standards, the flexibilisation of data supply and the development of further information solutions for their customers. The financial market constantly develops and keeps providing more products. This means that the market data and the required background knowledge have to be constantly adjusted as well.***

***A single financial organization can hardly manage this very agile market. ÖWS offers services to meet the market demands: up-to-date market data and know-how.***



ÖWS originated in the merging of data services of several well-known Austrian finance institutions. Specialization and efficiency characterise the work and the everyday operations of the company. The heart of the ÖWS IT infrastructure is an IBM mainframe with the z/OS operating system. Werner Daschl, Manager of Projects, Services & Solutions and Project Leader of ÖWS describes the service provided by ÖWS, "The majority of the Austrian banks use a standard product for the processing of securities business. ÖWS acts as a data provider for this system concerning master and transaction data. Every customer installation uses the same DB2 database model that acts as a target for the data replication performed by the ÖWS system. In the past, the data volume maintained by the system was completely transferred to the customers. This created unnecessary costs for our customers especially for non-traded stock exchange values of security. During the course of 2008, a project was started with the objective to considerably reduce the amount of data for the customers and therefore reduce the data transfer volume. Part of the project was a new subscription service for the customers. This service enabled the customer to selectively subscribe to the data they needed. A renewal of the data propagation software was necessary to implement such a selective provision of data to our customers."

The technical focus of the project was the evaluation of a data propagation software that allowed a flexible data distribution. Tests have been performed with preselected solutions. Werner Daschl, "In the course of the evaluation we came across tcVISION from B.O.S. Software. The professional and competent presentation of the product by the vendor, the functionality of the product and the flexibility during the testing period were the main factors for us in selecting tcVISION."

The implementation of the new subscription service is fully completed now and has been in production for 18 months. Werner Daschl, "Technically the distribution of the data based on the customer subscriptions has been solved using a bit string as an integer attribute for the relevant tables. For every replicated record a comparison is performed using a logical bit compare with different comparison values to check whether the record should be

distributed to the customer. If the bit comparison is not successful, the record is rejected. In addition to the bit string logic a comparison based on a Lookup-SQL and character string comparisons are performed."

Based on the experiences gained during the production use, all expectations were met. Werner Daschl, "During the testing period, the missing functions we required were implemented promptly by B.O.S. All in all, the product itself has evolved because of the requirements and challenges of our project. B.O.S. quickly finds and implements solutions based on the customer's requirements. This superior support from B.O.S. was an important factor in our decision to acquire tcVISION. B.O.S. is a reliable partner, especially during situations that require immediate attention and action."

Werner Daschl summarises, "ÖWS is the central institution in the field of securities for virtually all banks in the Austrian market. Therefore it is of utmost importance to ensure a qualitative, efficient and timely data supply to our customers. With the implementation of tcVISION, the quality of these services has been greatly improved."

Large data quantities are regularly transferred to the ÖWS customers. The majority of the data is received, processed, distributed and implemented into the customer systems by a fully automated system at ÖWS. These large data volumes (approximately 2 million stock exchange values per day) can only be processed if the technology components deployed function faultlessly, efficiently and with excellent performance.

When working with the B.O.S. team, their high qualitative standards were apparent. The cooperation over the past few years has solidified an excellent partnership between ÖWS and B.O.S. and thus has formed the foundation for a further successful cooperation."

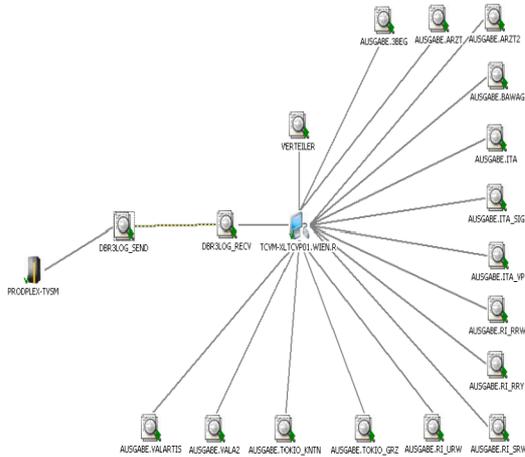
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# Application Example Österreichische Wertpapierdaten Service GmbH



ÖWS provides all financial data required by their customers. ÖWS obtains the data from leading financial data providers for real-time quotes like WM Frankfurt, SIX Telekurs GmbH, Vienna Stock Exchange and various publications.

To serve each individual customer based on his requirements, a subscription system has been developed that only transfers the stock exchange values to the customer that he has subscribed to. The distribution of the subscription data is performed by tcVISION.

The subscribed data is captured in real-time from the active log of a shared DB2 system on a z/OS system. The capture mechanism of tcVISION uses the Instrumentation Facility Interface of DB2. The changed data is transferred to an Intel based Linux system via TCP/IP where the distribution of the data records to the customers is performed based on data record attributes.

Technically this was realised using a bit string as an integer attribute for the relevant tables. For every replicated record a comparison is performed using a logical bit compare with different comparison values to check whether the record should be distributed to the customer. If the bit comparison is not successful, the record is rejected.

In addition to the bit string logic, a comparison based upon a Lookup SQL and character string comparisons are performed.

All processing definitions are stored in a central tcVISION Repository.

**Example bit comparison:**

Logical AND-comparison between attribute ABONNENTEN\_CODE (subscriber code) and a comparative value. If the record is propagated, the subscriber code field of the output record is cleared to hide all subscribers of this record.

**Transfer of licenced data via a Lookup-SQL:**

The data records of the table are only transferred when the Join across multiple tables produces a result.