Independent, Innovative and Future oriented

dwpbank offers its clients technical systems and processes for the processing of securities transactions that ensure smooth processing even in challenging market situations, allowing buy and sell orders to be implemented quickly and reliably in volatile phases.

Since its formation in 2003, dwpbank has pursued its target of becoming the leading transaction bank for securities services in Germany. In the intervening years, it has actively influenced the provider structure in the sector. With 8.3 million securities accounts technically managed, dwpbank is the undisputed market leader. And the route ahead is already clear: dwpbank intends to expand continuously its market position depending on the respective market situation. dwpbank is continuously developing its technologies for the processing of securities transactions in order to ensure that this sensitive area of the finance industry remains secure, transparent and stable.

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IBM mainframes with the z/OS operating system manage the huge amount of production processes. dwpbank already is using tcACCESS for many years. "tcACCESS was purchased for our users to provide an easy and fast access to relevant financial data from their workstations." Gabriele Höffgen, responsible for tcACCESS projects, talks about the first applications. "During the course of years the requirements have increased and in the meantime tcACCESS has become a fundamental part of our business work-flow. More than 500 tcACCESS clients are installed and processes are started on the mainframe that finally result in a tcACCESS task which initiates a data transfer from the mainframe to another platform." (refer to user story "Our Goal is your Success").

dwpbank offers an overall service in the area of Retail- and Wholesale business to process all tasks from order routing and clearance, delivery and booking. Central service offerings are the IT-platform WP2 and the graphical user interface for the practice WPDirect. Gabriele Höffgen: "During a transaction, for example the purchase of bonds, data gets processed on the mainframe and WP2. These processes initiate other business processes that transfer information, convert and prepare information until the customer gets the final results. These processes require a near real-time data transfer between different systems and conversions from and to different formats." The first contact to tcVISION was in fall of 2007. Christoph Welter, responsible for data transfers, remembers: "A B.O.S. person visited us and talked about tcVISION. The concept of exchanging and converting data between sending and receiving partners caught our immediate attention. We saw a demonstration of tcVISION and we realized that this solution would perfectly match our requirements. tcVISION could be installed on all of our various operating system- and hardware-platforms; the graphical control center provides monitoring and control over all participating systems and resources. It was important that all of this fits within the tight security regulations of the bank. Another important factor was the flexibility we could gain because of the script language REXX. Using this language allowed us to implement all of our processing requirements. With tcVISION we saw the chance to completely automate and monitor all of our future data transfers." This concept was a novelty, even for B.O.S. tcVISION had been originally developed to synchronize changed mainframe data with relational database management systems in real-time. Heinrich von Parseval, Director of Development and Support at B.O.S.: "Using tcVISION with no mainframe involved was an interesting challenge to us although tcVISION was well equipped to act as an intelligent transfer system. We all were curious to see what dwpbank would come up with."

During 2008 the first prototypes were developed and first experiences made. Christoph Welter: "We started with the

development of the implementation and had to create the technical requirements first. The infrastructure of the bank consists of multiple networks that are independent from each other and are hosted by different providers; we had to make sure that the tcVISION components inside these networks could safely communicate with each other. As soon as this was in place, we implemented the first smaller processes and that was the beginning of a real transfer hype. We have been approached with lots of different requests. Requests that could not be solved before or could only be solved with a lot of efforts. With tcVISION and with the help of the flexible script language REXX we have been able to solve the requirements."

In the meantime more than 21 workstation manager installations of tcVISION are in production, nearly the same number in test- and development-environments. Gabriele Höffgen: "The tcVISION Manager are installed on SUN Solaris, Linux and Windows. The graphical user interface, the tcVISION Control Center is hosted centrally on a CITRIX farm. All production processes work across providers and networks." Christoph Welter describes a typical process: "A bank employee performs a securities transaction and uses our WP2 mainframe system. The business process that runs on the mainframe is terminated by an automated tcACCESS file transfer to a special tcACCESS/tcVISION server that is located in the network of the German Stock Exchange in Frankfurt. In defined intervals a tcVISION script is started on the server that checks for new incoming data. The script immediately starts a binary transfer of the data to a WPIO Server (WP Integrator Online). On that server the data is converted according to the special customer requirements and the result is saved to a 'Channel'. A 'Channel' is a directory that is also monitored by a tcVISION script. If data is saved to a 'Channel' tcVISION either transfers the data back to the tcACCESS/tcVISION server and tcVISION starts an upload via tcACCESS back to the mainframe or the data is sent to a WPIB Server (WP Integrator Batch) and a Connect:Direct process picks up the data and transfers it to the client. The decision which way to go is made by tcVISION based upon the dataset names of the files."

Other automated file transfers are performed by tcVISION and additional control files are created by the tcVISION scripts. These files contain information to transfer the data via fax, E-mail or SMS. To do this tcVISION works closely with a media server from TOBIT. TcVISION processes also transfer CSV data and import the data into MS SQLServer databases. Gabriele Höffgen: "The requirements for tcVISION based transfers increase every day. All tcVISION transfers create log- and audit-files. This is important. We always know the details about every transfer. The word has spread around in the bank about the flexibility that tcVISION offers and what can be achieved. It was not difficult for us to get used to the REXX language
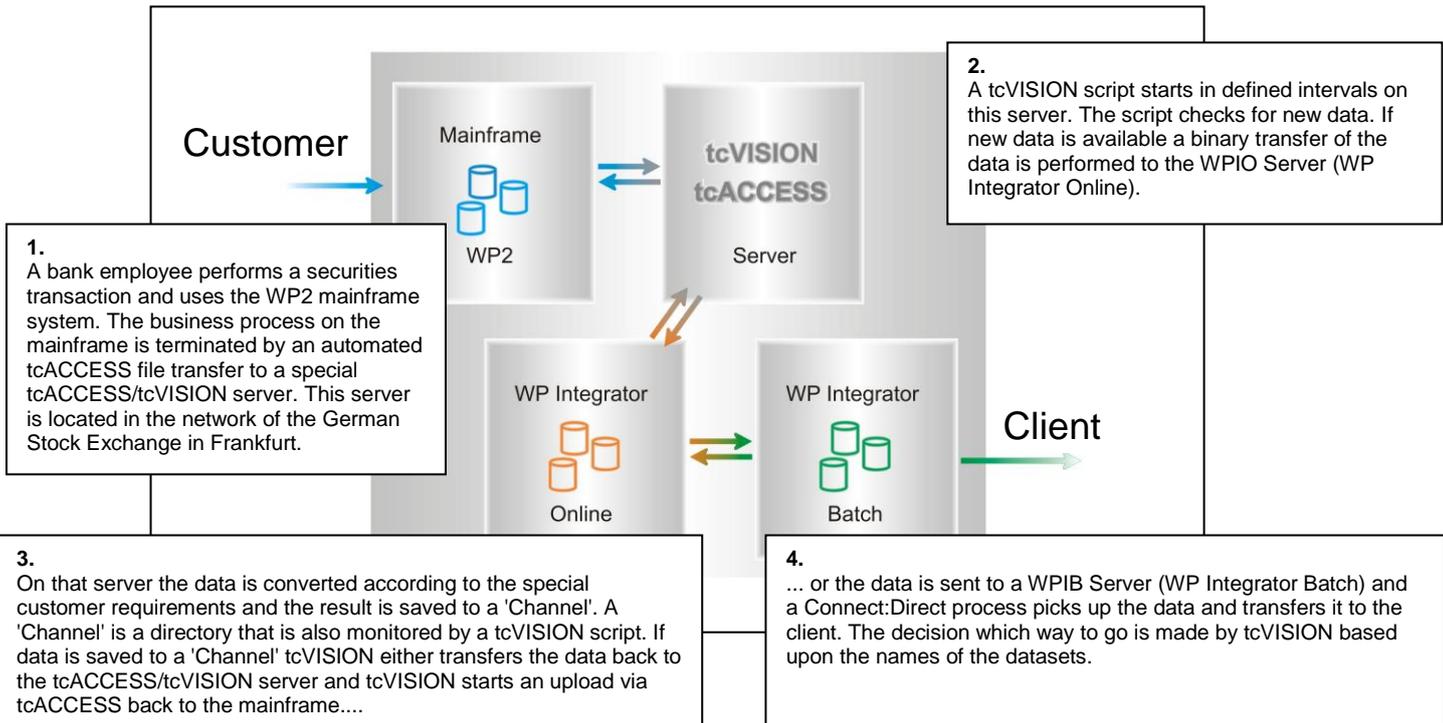
and we have been able to implement complex tasks in a short period of time. Whenever necessary we received excellent support from B.O.S. No surprise to us because that's what we already knew from tcACCESS. We all look forward to a continuing good working relationship".
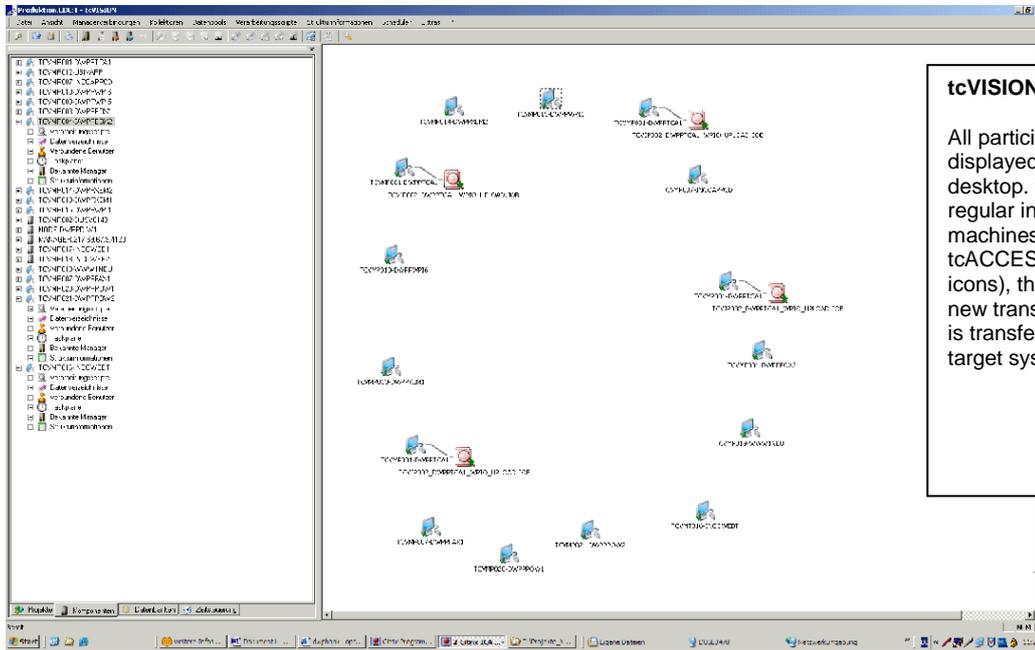
tcVISION Control Center:

All participating tcVISION Manager are displayed on the Control Center desktop. tcVISION jobs are started in regular intervals on the different machines, like the. tcACCESS/tcVISION Server (the red icons), these jobs check directories for new transfer data. If data has arrived it is transferred to the corresponding target systems.

1.
A bank employee performs a securities transaction and uses the WP2 mainframe system. The business process on the mainframe is terminated by an automated tcACCESS file transfer to a special tcACCESS/tcVISION server. This server is located in the network of the German Stock Exchange in Frankfurt.

2.
A tcVISION script starts in defined intervals on this server. The script checks for new data. If new data is available a binary transfer of the data is performed to the WPIO Server (WP Integrator Online).

3.
On that server the data is converted according to the special customer requirements and the result is saved to a 'Channel'. A 'Channel' is a directory that is also monitored by a tcVISION script. If data is saved to a 'Channel' tcVISION either transfers the data back to the tcACCESS/tcVISION server and tcVISION starts an upload via tcACCESS back to the mainframe....

4.
... or the data is sent to a WPIB Server (WP Integrator Batch) and a Connect:Direct process picks up the data and transfers it to the client. The decision which way to go is made by tcVISION based upon the names of the datasets.

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