



Chances for the public authorities

Leipzig is a Kreis-free town in the north west of Free State of Saxony. With more than 510.000 inhabitants Leipzig is the most populous city in Central Germany. Leipzig is known for the musical tradition that is primarily based upon the works of Johann Sebastian Bach and Felix Mendelssohn Bartholdy. The "Gewandhaus" orchestra and "Thomaner"- choir have an excellent world-wide reputation.

The IT activities of the City of Leipzig are outsourced to LECOS GmbH. Customer satisfaction is the highest priority for Lecos. The provision of IT-services and –solutions is the overall focus of LECOS.



The City of Leipzig is known for their two musical institutions: The "Gewandhaus" orchestra and the "Thomaner"-choir account for the reputation of Leipzig as the Music City. Other attractions are the famous Book Fair, the Railway station and the artists of the "School of Leipzig".

The IT activities of the City of Leipzig are being provided by LECOS GmbH. LECOS runs a modern IT data center and offers 24/7 services for all 365 days of the year. One of the primary services provided by LECOS is the processing of large data volumes for municipal authorities as well as the printing and collating of mass printed papers. LECOS uses an IBM mainframe with the z/OS operating system. The various municipal responsibilities are covered by the corresponding processes (taxes, budget and cash policies, welfare). Some of these processes use IMS databases and the IMS transaction monitor.

In the past employees of the city treasury used data entry applications to execute the transactions. Most processes were batch oriented. The input data was transmitted to the city treasury by the different agencies using individual forms. These forms had to be entered into the system

At the end of the last century City of Leipzig initiated a research with the objective to implement a new standardized processing flow that could be used by all agencies to submit their data to the city treasury. The City of Leipzig called for tenders and the project was given to a Dresden based company. The new system should be implemented on a Client/Server platform and was called ELFI. The major requirement for the new system was a transparent integration of the existing IMS databases and IMS programs.

B.O.S. Software was invited early summer of 2000 to present the tcACCESS solution and it was decided to use tcACCESS as the transparent gateway between ELFI and the legacy IMS environment.

Ralph Liske, ELFI- and tcACCESS-responsible at LECOS GmbH: "tcACCESS is the central connector between ELFI and the mainframe. We use the various connectivity methods provided by tcACCESS to access our IMS databases and to integrate the IMS programs. We use the tcACCESS ODBC and JDBC connectivity and we can directly access WINDOWS and JAVA resources from our mainframe programs."

ELFI is in production use at City of Leipzig for more than 3 years. The following tcACCESS functions are being used:

SQL access to mainframe data:

For the processing of credit and debit accounting information certain unique transaction numbers must be obtained from a

pool that is maintained on the mainframe in IMS databases. SELECT statements are being generated from the ELFI application to retrieve these numbers which will be inserted into the application screens. The tcACCESS ODBC component is used to perform this task. Ralph Liske: "The access to the IMS data is completely transparent. The access to IMS is performed by tcACCESS."

Integration of IMS programs:

Ralph Liske: "This requirement was very important to us because we wanted to use the already existing business logic on the mainframe from our ELFI application. Also this integration form is transparent to the user. Certain values are inserted into screen fields, the cursor is tabbed to the next field and the remaining screen fields are automatically filled with information that have been created by IMS programs. The key to this is the use of tcACCESS Stored procedures. The ELFI application simply CALLs the IMS programs via tcACCESS ODBC, input data is passed to the IMS programs and the programs return data that is used by ELFI. This is a secure and fast processing, but most important: we can use our existing business logic. It is important to mention, that no changes were required to our IMS programs."

Transactions

All transactions that must be performed by the city treasury are collected into an ORACLE database throughout the day. When the daily batch processing starts a JAVA program reads the ORACLE database and uses tcACCESS JDBC to transfer the data to the mainframe. Here the transactions are being processed with the batch programs..

Ralph Liske: "tcACCESS also plays an important role in the day-end closing. During the batch processing certain tcACCESS tasks are being started that retrieve data from network servers and integrate the data into the batch processes."

Another application is the start of print processes from the IMS transactions. The IMS programs create the print output and this output is sent to a tcACCESS JAVA component (tcACCESS JAVA listener). The JAVA listener uses SQL statements to retrieve the print data from the mainframe and the data gets printed on selected network printers.

Mr. Liske: "tcACCESS helped us to transparently integrate our IMS applications and IMS data into the new ELFI system. Whenever we needed support and help from B.O.S. we could contact them. We always participate at the B.O.S. user conferences where we are being informed about new functionalities that we can use in our applications."

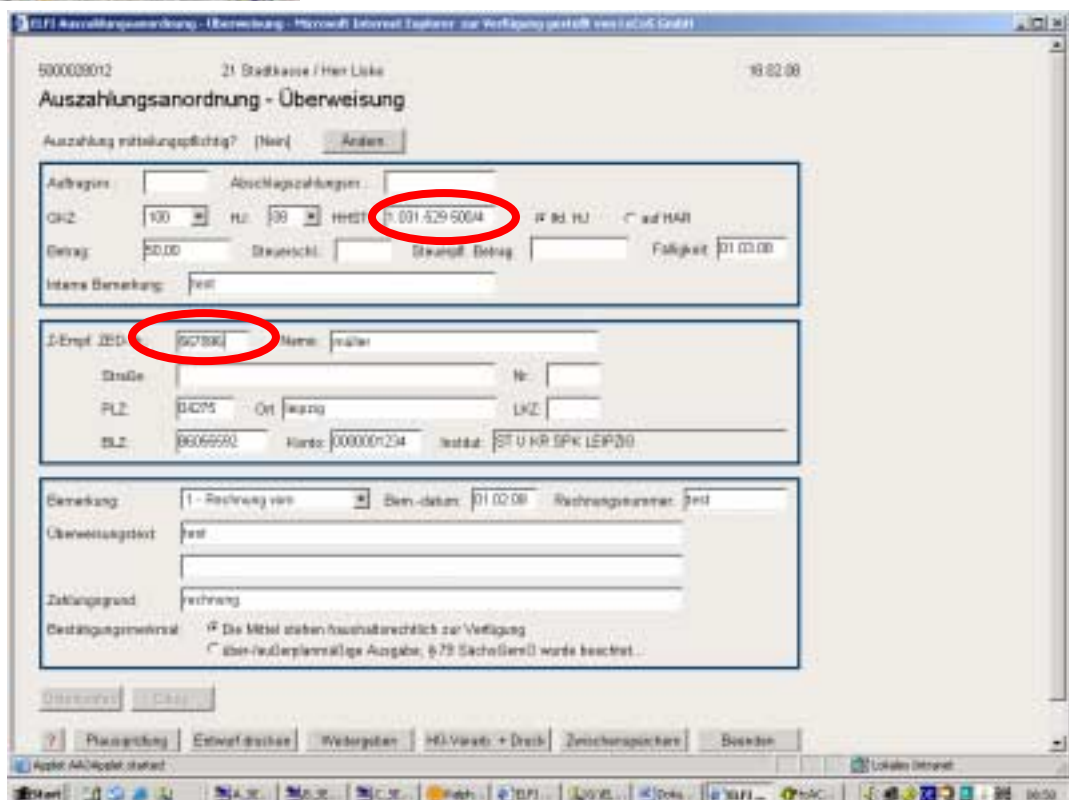
Contact: Ralph Liske
LECOS GmbH
Phone: +49-341-2538-528
Mail: ralph.liske@lecos-gmbh.de

Peter M. Horbach
B.O.S. Software GmbH
Phone: +49-89-4619930
Mail: Peter.Horbach@bossoftware.de

Application example City of Leipzig



tcACCESS performs a central role in the ELFI application used by the City of Leipzig. Different tcACCESS functions are being used by the application.



5000020012 21 Stadtkasse / Hier Link 16.02.08

Auszahlungsanordnung - Überweisung

Auszahlung mitteilungsplichtig? [Nein]

Antragnr:	Abchlagszahlungen:
CHZ: 100	HZ: 00
IBAN: 0 011 529 5004	IF 8d HJ
Betrag: 50,00	Steuerschl: []
Grundf. Betrag: []	Fälligkei: 01.02.08
Interne Bemerkung: []	

Z-Empf. ZID: 507000	Name: []
Strasse: []	Nr: []
PLZ: 04205	Ort: []
BLZ: 0606000	Bank: 0000001234
Instit: STU KR SPK LEP00	

Bemerkung: 1 - Rechnung von Bem.-daten: 01.02.08 Rechnungsnr.: []

Überweisungstext: []

Zahlungsgrund: []

Bestätigungsmittel: Die Mittel stehen haushaltsrechtlich zur Verfügung
 über-/außerplanmäßige Ausgabe, 679 Sach/Gem() wurde beschr. ...

7 Planungsbüro Entwurf drucken Webbrowser HJ-Vorab + Druck Zurechnungsarten Beenden

Apple Mac OS X 10.4.11 (10J501) Lokales Netzwerk

If data is being entered into certain screen fields automatically IMS programs are being started on the mainframe using the tcACCESS function "Stored Procedures". The IMS program returns data to the ELFI application that is being inserted into screen fields.

Other functions of the application use SQL-statements to access IMS databases via tcACCESS.

During the batch processing for the day-end closing tcACCESS is used to retrieve data from an ORACLE database.

