



## Manage the Challenge – build the Future

**LRP Landesbank Rheinland-Pfalz, Mainz, was established in Mainz in 1958. It is a commercial bank in the legal form of a public-sector financial institution. In Luxembourg LRP is represented by its branch and by its wholly-owned subsidiary LRI Landesbank Rheinland-Pfalz International S.A. Approximately 2000 employees service the needs of the group's customers in Germany and abroad.**

**LRP** Landesbank  
Rheinland-Pfalz

LRP is active as a universal commercial bank. It offers the financing services of an internationally oriented credit institution and the investments and services of an investment bank to its domestic and international customers. In cooperation with the savings banks of Rheinland-Pfalz, the Bank assumes the equalization of liquidity. LRP complements and enhances the range of services offered by the savings banks in numerous business segments, especially in the loan, securities, international and building society business

The Gutenberg- and media-city Mainz is home of the LRP. The IT-department operates two z/800-CPUs of type 2066-OA2 running the z/OS operating system. The corporate data are primarily stored in DB2-databases. There are still certain applications that have their data stored in VSAM files. ORACLE databases are being used in the Open System environment. The mainframe-applications have been developed with SIRON, the High Level Language from Germany based Ton Beller AG or have been traditionally developed in COBOL. CICS-applications have been developed with TELON from Computer Associates. ZEIDON from Ton Beller AG is the main development system for Client/Server-applications. Also PERL, Centura and JAVA are languages used for Open System development. Approximately 200 people represent the IT department.

LRP is a customer of B.O.S. for years with products like BOS-Skip, BOS-Help and Expert/Win.

Excellent and top performance is the main objective for the development of Client/Server-applications. The connectivity to the DB2 databases provided by ZEIDON did not meet this objective because of the technical architecture of the product. DB2-Connect from IBM had been the levelling board for the performance but was not the product of choice because of the complex client-installation and cost.

In March of 2002 a project was initiated with B.O.S. to develop a tcACCESS ODBC driver that should directly connect to DB2 using the DRDA protocol. "We were thinking of a slim tcACCESS ODBC driver that should be easy to install and would even outperform DB2-Connect." Balthasar Koch, Manager Application-coordination describes the aim of the project. "B.O.S. and LRP jointly specified the objectives of the project and after a short development period B.O.S. installed the first version of tcACCESS\_DRDA on one of our machines." The very first tests already proved that significant performance gains compared to DB2-Connect would be achieved with tcACCESS\_DRDA. "We performed intensive measurements" says Markus Orth, project manager ODBC access. "We experienced performance improvements of up to 60% and more compared to the IBM connector. tcACCESS\_DRDA occupied approx. 900 KB of disk space compared to the 800 MB of DB2-Connect. Another advantage for us was the fact that tcACCESS\_DRDA supported a server-based installation. This completely eliminated the need to distribute and maintain the product on more than 1600 workstations." The new tcACCESS adapter

was installed and implemented by members of the B.O.S. development team. "The support of B.O.S. and the short reaction times really impressed us." Mr. Koch points out the close and excellent relationship to B.O.S.

The already existing applications have been gradually converted to use the new tcACCESS ODBC component. "Because of the object based architecture of ZEIDON the necessary changes were really small" Markus Orth talks about the implementation of tcACCESS\_DRDA. "We only had to define the new driver in the application. In the meantime all of our mission critical applications have been converted. These are all programs related to payments („Electronic Bank“), the central account module („ZBM“) as well as applications related to bonds („WP-Skontro“). Early 2003 we had converted 11 systems."

The most current project that has been developed and is running in production is called CLC (Credit Limit Control). Balthasar Koch: "Outstanding performance was a must for this application. tcACCESS\_DRDA queries DB2-tables and provides the base for the system, that enables our traders to control the credit limits that have been agreed to with our customers." Mr. Koch says: "In the meantime we have extended the usage of tcACCESS\_DRDA even further. We now use it in the SAP R/3 environment. We use the JAVA component of tcACCESS\_DRDA to access DB2 from the SAP Business Connector. This saves us extensive batch selections from our DB2-tables on the mainframe. That's what we used to do: select the tables and write the resultsets to sequential files, FTP these files to the target system and import them. Now we process the DB2-data directly. We cannot abandon the use of tcACCESS\_DRDA and the benefits we get. We are very happy with the product and with the support that has been provided to us and that will continue to be provided to us by B.O.S."

### Contact:

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## Impressions of applications

After the user has signed on to the system a personalized menu will be displayed. Applications CLC, DLA, EB, GATTUNG, INST are ZEIDON-applications that use tcACCESS\_DRDA to access the DB2-tables.

The example shows a dialog of the "Electronic Bank".

For privacy reasons all personal data has been removed from the pictures.

**SisyN-Menu1 --- Systemauswahl - 14.08.2003 09:10:08**

LRP Landesbank Rheinland-Pfalz

User: 49196 Koch, Balthasar

Na...	Bezeichnung	Typ
CLC	Credit Limit Control	Windows
DLA	Darlehen Aktiv - NEU	Windows
DLP	Darlehen Passiv	3270: AMES
<b>EB</b>	<b>Elektronische Bank</b>	<b>Windows</b>
EP	e-Purchase	WWW I...
Gattung	Gattungsdialoge	Windows
Inst	Institutsdialoge	Windows
KEY	Schlüsseldatenbank	Windows
KF00	K E Y F A S T	3270: KF00
KIS	Kundenauskunft	3270: AMES
KIS0	KIS0-Kundenauskunft (KI61 - KI72)	3270: AMES
KISE	KIS-Erfassungen	3270: AMES
KISS	KIS-Spezialanzeigen	3270: AMES
KISA	KIS-Änderungsdienst	3270: AMES
KuBS	Kunden-Betreuer-Sach	
MPM	Multi-Projekt-Managem	
PGM0	Programmdokumentati	
PLZA	Postleitzahlen abfrager	
SignOn	LRP -Sicherheit und Ko	
SISY	LRP-Sicherheitsystem	

Bitte wählen Sie ein System

System: EB

Dieses Menü automatisch s...

Produktion

Bezeichnung des Anwendungssystems

  

**EB-MENU1 --- EB (AMES) - 14.08.2003 10:52:40**

LRP Landesbank Rheinland-Pfalz

**EB Elektronische Bank**

Auswahl: Private Überweisungen Steuerwesen Wirtschaftsdienst Wertpapier+Depot Verwaltung 4:320 Kto-Führung Landestreuhandstelle Beteiligungen Becht Personal (Reisekosten) Kreditbereiche Geldhandelsabwicklung InvestData 5-11 Internat. Handelsfinanz 4-32 Trans.kontrolle LBS-Rechnungswesen alle Buchungen Wertpapier+Depot/Interne Buchun 5-242 Service (Interne) Private Wertpapier-Order 2

  

**EB-Ueberw2 --- Überweisungs-Detail**

Überweisungsauftrag an 550 500 00

LRP Landesbank Rheinland-Pfalz Girozentrale Mainz

Empfänger: Name, Vorname/Firma (max. 27 Stellen)  
STADTKASSE MAINZ

Konto-Nr. des Empfängers: [redacted] Bankleitzahl: 55050120

Institut: [redacted]

094 Euro Betrag: DM, Pf oder EURO, Cent  
EUR

Anwendungszweck - z. B. Kunden/Referenznummer - (nur für Empfänger) max. 13 Zeichen à 27 Stellen

Auftraggeber: Name, Vorname  
Koch, Balthasar

Konto-Nr. des Auftraggebers: [redacted]

Datum: 12.08.2003

Diese Übe  
Fehlleitung  
kontrolliert

  

**EB-Ueberwei --- Überweisungsliste**

Anzeige  
 Alle ausgewählten  nicht gebuchte  gebuchte  abgewisene

gebucht	Erfass	Auftraggeber	Auftragsd.	Empfänger	Blz	Wrac	Betrag	Zweck	L	S
Nein	49196		14.08.2003			EUR	1.551,55		N	N
Nein	49196		14.08.2003			EUR	10,00		N	N
Ja	49196		30.07.2003			EUR	20,00		N	N
Ja	49196		22.07.2003			EUR	27,44		N	N
Ja	49196		08.08.2003			EUR	126,38		N	N
Ja	49196		18.07.2003			EUR	98,60		N	N
Ja	49196		22.07.2003			EUR	99,00		N	N
Ja	49196		12.08.2003			EUR	5,00		N	N

Sum (DM): 3.764,91 (EUR): 1.924,97