SUCCESS STORY

GDIS AND BOI
A SUCCESS STORY

GENERALI

CUSTOMER PROFILE

- Generali Group Austria:
  Composite insurer with additional financial services;
  part of the Assicurazioni Generali S.p.A. in Trieste, Italy.
- Employees: 4,811 (2012)
  Total assets: 14.99 billion EUR (2012)
- Third largest insurance company in Austria with 15% market share
- 999 Billion data transactions per year

GDIS AND BOI
25 years of success and confidence.

Generali Deutschland Informatik Services GmbH – previously known as Aachener und Münchener Informatik Service AG – has been a loyal client of BOI since May 1992. TABEX has been used productively in the company ever since.

GDIS is now assuming IT tasks for the Generali Deutschland Group and for subsidiaries of Assicurazioni Generali S.p.A. Within the Generali Deutschland Group, GDIS acts as a single IT service provider for the entire Group. Its core competences are in the stable and viable operation of a multi-platform infrastructure and in the development of powerful, future-proof IT applications.

In the international arena, GDIS underpins IT operations for the entire central-eastern region, and serves the Generali subsidiaries in Belgium, the Netherlands and Austria as well as in ten Eastern European countries.

With ca. 1,100 employees and a turnover of around 315 million Euro, GDIS is one of the leading developers of information systems in Germany.

BOI BETTER ORGANIZED INFORMATION

SUCCESS STORY

GDIS AND BOI

A long and successful partnership.

GENERALI Germany headquarter in Munich, Bavaria

THE MOST IMPORTANT REQUIREMENT: HIGH PERFORMANCE

Table access fast and safe.

In the early 90s, the car application „K-Neu“ was developed by the Aachener und Münchener Informatik-Service AG. The architecture of this application was based on complex processes, which could not be implemented in DB2 due to insufficient performance.

Therefore, a table management system enabling high-performance access to tables was sought. TABEX was chosen because it best met the requirements of the Aachener und Münchener Informatik Service AG.

A key advantage of TABEX over other table management systems was the high performance of the table access. From TABEX/2 onwards, high-performance data access has been an important feature of all TABEX products.

Further requirements from Generali Deutschland regarding a table management system at that time were:

- That it can be used under TSO, CICS, IMS / DC and batch conditions
- Easy maintenance of the tables by the technical departments of the Group subsidiaries
- Validity constraints on the tables determined by date
- That access restrictions be applied in the broadest sense; wherever possible RACF compatible
- Compatibility with DB2, both in data maintenance and database access
- Easy maintenance and development of the system
- Where possible, compatibility with in-house approval processes

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TECHNICAL DESCRIPTION COMMON DATA SPACE

Since TABEX integrated in the product.

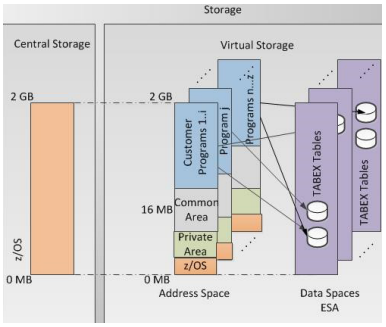

Abb: Architektur

IBM ENTERPRISE SYSTEM ARCHITECTURE

New opportunities for TABEX.

With the introduction of the Common Data Space Architecture by IBM, the use of data spaces in addition to the address space was made possible. TABEX was thus extended, so that it can load tables in the Common Data Space. Thus, the performance has been significantly enhanced by the use of access to the same datapool loaded in memory tables from all regions.

TABEX has taken advantage of the possibility that after the introduction of 31-bit addressing up to 2GB of virtual data spaces can be used additionally to the address spaces.

Common Data Space Technology allows the central storage of data in the main memory; it also allows access to these centrally loaded data. This procedure was implemented also in operating systems such as Linux, Unix, Solaris, or Windows.

This technology guarantees that only one copy of a table is used in all applications. In addition, no database access is necessary. Thus, data can be accessed efficiently and without additional memory consumption.

USE OF COMMON DATA SPACE TECHNOLOGY IN TABEX

A broad variety of opoortunities.

- Read access with high-performance calls
- Loading or reorganizing data spaces can be performed without affecting running applications (uninterrupted switching between load data space and work space, following data change or reorganization)
- No synchronization is required
- Access to the correct path via the access module in the STEPLIB concatenation
- Data spaces depending on a DB/DC environment
- Separate data spaces for the various integrated subsidiaries (client capability) analogous to IMS and DB2. To maintain client separation, different search paths and project IDs are used.
- Several Common Data Space data spaces can be active in parallel and filled with different tables. Via application-specific paths and project identifiers, the order of searches, such as clients, different environments, etc. can be controlled.

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COMMON DATA SPACE-TECHNOLOGY IN TABEX

Using this technology confers a major edge on BOI Customers

TABEX4 AT GDIS

2.200

TABEX Tables are in production.

1000

additional tables are currently integrated in TABEX.

1.5 billion

times per hour DB2 tables loaded in Common Data Space are accessed on peak days.

400

TABEX users in the technical departments

- By addressing each table by name, date and file ID, the IT organization and versioning can be mapped. With the additional project identifier, different instances or test levels are possible. This ensures that only the correct version of the tables is accessible.
- A special data space can be used to buffer data that must not be affected by a rollback. This is used, for example to save insurance contract numbers, so that in case of a crash of the application the system can rewind the process. In this case it is important that this contract number is not lost through a rollback (this would be the case with DB2 storage) or that the performance of the application is decreased because of too many I/Os (when writing the contract numbers in a file).

400 TABEX tables are loaded from DB2 into the Common Data Space.

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ADVANTAGES OF COMMON DATA SPACE

The biggest advantage of Common Data Space Technology for Generali Deutschland is the high performance of accesses: According to measurements, the memory accesses using Common Data Space technology are up to 20 times faster than DB2.

Further advantages of TABEX for GDIS:

- Central data pool (all applications have identical data at the same time)
- Continuous work 24-hours
- Time-controlled activation of data changes and new tables
- Control of tables loaded in the Common Data Space data space
- The possibility to map the organization structure; e.g., for test, integration, production, projects, or table versions
- Simple and convenient table maintenance within the department
- Audit-proof table maintenance via TABEX
- Integration of existing promotion and activation concepts at various levels; i.e., test, trade test, pre-production, production and maintenance levels
- Stability
- Maintainability of the infrastructure

ACCESS IN OTHER OPERATING SYSTEMS

Common Data Space technique (Shared Storage).

The TABEX4 product group is the leading cross-platform standard software for high-performance table access and secure table management based on DB2 and other relational databases.

TABEX runs on many common operating systems and connects applications on mainframe with applications on other operating systems. The standard TABEX software enables efficient access to tables, even in heterogeneous IT environments. The advantages of the Common Data Space data space are also available for operating systems such as Sun Solaris, AIX and Linux shared storage technology.

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ACCESS TO COMMON DATA SPACES BY JAVA

The continuous development of TABEX in response to the changing needs of our customers and enabling them to use critical technologies is a central concern of BOI.

TABEX FUNCTIONS

- Leading standard software for table management
- Usable for mainframe as well as non-mainframe environments
- Platform and database independent

Therefore, BOI also offers products that allow table data in SHS data fields to be accessed from any Java environment. JAVA can use all read-only access variants of the TABEX4-API-library. This allows efficient table access within the applications.

Customers can therefore reduce hardware and software costs. Furthermore, customers gain flexibility, since user programs can be outsourced from the mainframe.

BOI SOFTWARE ENTWICKLUNG UND VERTRIEB GMBH

40 years of quality and reliability.

TABEX4 is a standard software from BOI. BOI specializes in the auditable maintenance of and efficient access to versioned data. By "versioned data", we mean data sets whose validity is time restricted (temporal data management, also called historicization) or restricted by the organization.

Our table management system, TABEX4, is the leading standard software in this area. TABEX4 runs in both mainframe and non-mainframe environments, combining the two worlds to the benefit of our customers. The platform and database independence of TABEX4 enable the customer to easily maintain distributed data, and to efficiently access the data from within applications. By outsourcing applications from mainframe to non-mainframe environments, our customers can make better use of their hardware and save money.

BOI has been providing software for mainframe and non-mainframe environments for more than 35 years. Our products have a reputation for quality and a good price/performance ratio. BOI stands for continuity and further development. We take the time to discuss the needs of our customers, and develop our products to suit customers' requirements.

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BOI Software Entwicklung und Vertrieb GmbH
40 years of success and innovation.
Your specialist for data management.

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