R/3® System

ADABAS D R/3 Edition

Data Base System for SAP® R/3

ADABAS D is the relational database system produced by SOFTWARE AG. In close cooperation with SOFTWARE AG, SAP offers its R/3 customers ADABAS D as an integrated data storage system for the SAP R/3 System.

The R/3 Database Interface

R/3 supports only relational databases and communicates with them via ANSI-SQL. R/3 standard applications formulate their queries for an SAP-SQL database interface. This makes it possible to implement specific enhancements, which go beyond the SQL standard, for different database systems, without the need for any program modifications.
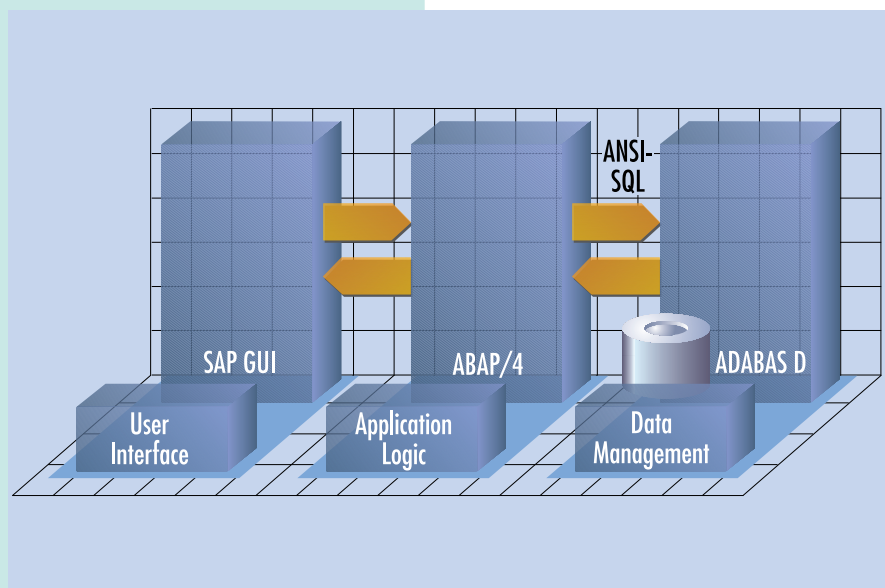
Functionality of the ADABAS D R/3 Edition

ADABAS D R/3 Edition is a highly advanced relational database system. The relational model - including support for domains, primary keys and referential integrity - is fully implemented in the ADABAS D R/3 Edition. The SQL interface to this high-performance database is compatible with the leading industrial SQL standards.

Special SQL enhancements, such as single record commands and scroll functionality, increase not only system throughput when running applications but also application development productivity.

ADABAS D R/3 Edition is designed to handle large data volumes and large numbers of users. This ensures that the typical R/3 operating profile is fully supported. The multitasking/ multithreaded architecture of ADABAS D achieves high throughput on both single-processor and multi-processor systems. Due to its distribution technology ADABAS D R/3 Edition can also be implemented easily on MPP systems and, thanks to its scalability ADABAS D R/3 Edition can be adapted to increasing requirements at any time .

Dynamic memory management guarantees that performance remains constant over the complete database life cycle. Proven algorithms ensure that all available disks are subjected to even load balancing.

Data compression and efficient free storage management guarantee that no disk space is wasted. In this way ADABAS D R/3 Edition saves up to 25% of disk space . Asynchronous logging and group commits ensure that only absolutely essential I/O operations are executed. Since ADABAS D places locks at record level, it is possible for the maximum number of parallel database accesses to be executed.

Distributed Data Storage and Database Management

ADABAS D R/3 Edition can also be operated as a distributed database system. This means that logical database servers can be distributed across several physical computers within an R/3 installation. This process is completely transparent to the R/3 applications. The database server can therefore be very easily configured and scaled, in order to meet the respective performance requirements.

ADABAS D R/3 Edition provides a very simple administration system. Disk space management is performed dynamically and involves no size estimation. The disk space management system does not require reorganization and thus permits round-the-clock operation.

Data backup is performed on a logical level, e.g. only those storage areas which are occupied are backed up. ADABAS D R/3 Edition can therefore be used in productive operation without a great deal of administrative overhead - a feature that is appreciated by many ADABAS D customers and which is also beneficial to R/3 users. All database administrative functions have been incorporated into the SAP Computer Center Management System. ADABAS D R/3 Edition is integrated in the R/3 CCMS via the CONTROL tool. This tool enables you to easily perform all the necessary administrative activities, such as backups and configuration changes. The user interface is completely menu-driven and identical on all platforms.

ADABAS D R/3 Edition also supports backup tools from different manufacturers (e.g. ADSM, Networker, Autoloader, etc.). These tools allow you to completely automate database backups and to use existing backup hardware. Additional tools can easily be connected using a named-pipe interface.

Parallel backup and recovery of the ADABAS D R/3 Edition database significantly speed up these processes. Using this technology large datasets can be saved on up to 16 storage media at the same time. This scalability also allows very quick backups, a decisive factor for the availability and performance of the overall R/3 System, especially when very large databases are involved.

To make the operation of R/3 even more secure, ADABAS D R/3 Edition also supports the mirroring of database and log files as well as the RAID disk technology. This enables you to configure ADABAS D R/3 Edition so that system breakdowns are practically an impossibility.

Hardware

- ■ Bull
- ■ DEC
- ■ HP
- ■ IBM
- ■ SNI
- ■ SUN
- ■ Windows NT/Intel
- ■ Windows NT/RISC (planned)

Operating Systems

- ■ AIX
- ■ DEC-UNIX
- ■ HP-UX
- ■ SINIX
- ■ Solaris
- ■ Windows NT

Licenses and Ordering Details

BC Basis with ADABAS D R/3 Edition

This license includes a development license in addition to the runtime environment. It allows you to develop your applications using the R/3 Development Workbench or tools from external manufacturers, provided these applications access ADABAS D R/3 Edition via OLE, ALE or RFC. If access is achieved using SQL or ODBC, then the Direct Access Option must be obtained from SOFTWARE AG.

The ADABAS D R/3 Edition can be obtained from SOFTWARE AG for applications not dependent on R/3.

Please refer to the official SAP price list for details.

Training Courses

BC102: Duration 2 days
Content: Operation of ADABAS D under R/3, database administration, troubleshooting and tools
Target group: Database administrators

BC802: Duration 5 days
Content: Installation of R/3 with ADABAS D on UNIX, error handling, maintenance
Target group: System administrators and system installers

BC812: Duration 5 days
Content: Installation of R/3 with ADABAS D on Windows NT, error handling, maintenance
Target group: System administrators and system installers

BC902: Duration 3 days
Content: Follow-up course for installation on UNIX, worksteps, conventions and procedures
Target group: System administrators and system installers

BC912: (identical to BC902 for Windows NT)