



# Adabas

## THE POWER AND PERFORMANCE YOU NEED FROM THE DATA MANAGEMENT PLATFORM YOU TRUST

**Adabas is a scalable enterprise database management system (DBMS) designed for reliability, high performance, scalability and low total cost of ownership.**

Changing market conditions and new compliance mandates necessitate greater data availability and access. Competing in today's economy requires superior data management technology to ensure reliable data access and real-time delivery of critical business information 24/7.

Adabas for Mainframe and Adabas for Open Systems are designed for superior power and performance to support changing requirements and business growth. Adabas delivers extremely high transaction levels – over 325,000 commands per second – with a fraction of the staff and system resources needed for a comparable relational database management system (RDBMS). Adabas provides powerful functionality such as support for any type of data structure, space saving data compression and scalability to meet heavy and unpredictable transaction loads.

With Adabas, you can easily access Adabas data from Java and .NET applications, SQL-based applications, Web services or XML. And, a real-time data replication engine means Adabas can support up-to-the-moment data warehousing, disaster recovery and business continuity initiatives.

You also gain access to an array of new features including unlimited data storage and browser-based administration. With Adabas, you can meet the challenges of managing growing volumes of data – both structured and unstructured.

Adabas supports mainframe, Linux, UNIX and Windows platforms.

*“Our strategic decision to implement the Adabas solution from Software AG had a simple reason: Adabas was designed for maximum performance right from the start.”*

- Michael Bintakies, IZB, Germany

## ADABAS HIGHLIGHTS

- Keep structured and unstructured data together so that you work more efficiently and avoid complex integration projects.
- Store unlimited amounts of data and reduce downtime and maintenance – assuring you greater productivity and fewer headaches.
- Manage your entire Adabas environment with just one interface that's accessible anytime, anywhere. Ensure data consistency with other applications and gain more time for other initiatives.
- Get data when and where you need it for all your time-sensitive business operations. Replicate data updates in real-time to any RDBMS or middleware. Lower your systems costs by pushing only the data you need to share. And, gain peace of mind knowing your data will be safe in the event of a disaster.
- Avoid costly and time-intensive integration projects with open access to Adabas data using Web services, XML, Java and .NET standards. Staff with no prior knowledge of Adabas can easily access Adabas data using modern application languages and Web services.
- Empower business analysts with direct access to Adabas data through standard SQL applications. Save money on training and reduce requests to IT by providing business users with the information they need in the applications they use everyday.

## OPENNESS AND INTEROPERABILITY WITH MINIMAL RESOURCE USAGE

By supporting diverse application environments – from Natural to .NET to Java to packaged applications – Adabas eliminates costly and time-consuming integration projects, enabling limitless access.

Adabas for Mainframe and Open Systems provides an enterprise-scale database management system. It delivers extremely high transaction levels (more than 325,000 transactions per second) with a fraction of the staff and system resources needed for other data management systems.

## EXPAND ON THE CORE VALUE OF ADABAS

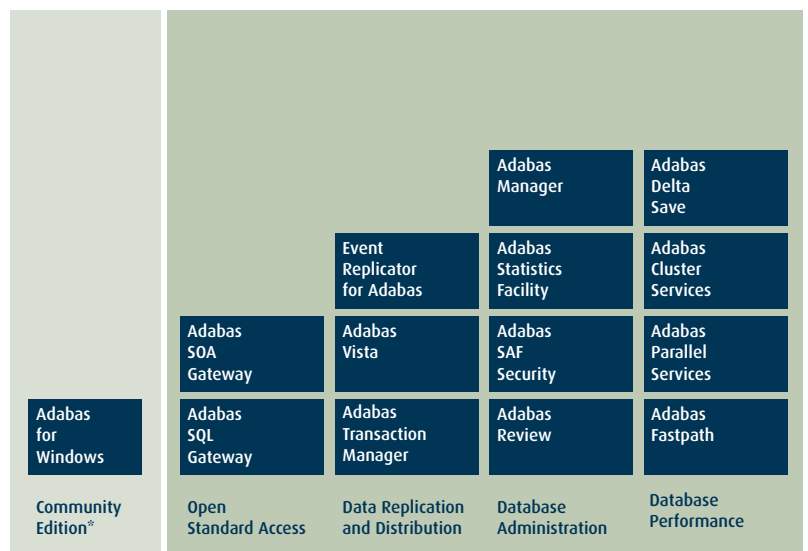
Software AG provides high-value, data-sharing tools that help you stay in control of your Adabas database environments. These Adabas add-on tools help you optimize your time so you can focus on your core responsibilities – ensuring maximum data integrity, availability and database performance to meet ongoing business needs.

These tools allow you to:

- Connect new applications built using Java or .NET with Adabas to access business data
- Share Adabas data with other databases in real-time for business continuity and efficiency
- Manage data that is related but in different formats (e.g., photos plus structured data)
- Manage information across multiple locations, ensuring all data is up-to-date
- Mitigate the risk of maintenance downtime due to unpredictable volumes of data traffic

## Improve data access

- **Adabas SOA Gateway**  
Makes Adabas data available from any environment that can call a Web service, such as Java or .NET, with no coding on the platform where the business logic resides.
- **Adabas SQL Gateway**  
Extends the reach of Adabas to your business user's desktop by enabling standard SQL applications, such as Microsoft Office, Crystal Reports and Business Objects to quickly and easily access Adabas data.



## Adabas Core Technology

**NOTE: Additional add-on products are available**

\*The Community Edition is a free download for developers to learn the power of Adabas for Windows

• **Event Replicator for Adabas**

Lets you create an enterprise data-sharing environment. Data changes in Adabas are replicated to other systems in real-time with minimal system resource usage. This supports data warehousing, disaster recovery, information synchronization and proactive business event notification.

• **Adabas Transaction Manager**

Synchronizes transactions across databases with two-phase commit – either multiple Adabas databases or Adabas to other resource managers (e.g., MQ Series, DB2, VSAM and IMS).

• **Entire Net-Work**

Is a message-based middleware service allowing Adabas databases to be accessed anywhere on the network, regardless of hardware, operating system or transaction-processing environment. Applications do not need to be aware of the database location.

• **Adabas Text Retrieval**

Is a full-text retrieval tool with an indexing facility for text data storage and a high-performance query language for content-based text retrieval. Both index and text data are stored in Adabas, enabling easy backup and recovery.

• **Adabas DL/1 Bridge and VSAM Bridge**

Allows you to migrate DL/1 and VSAM data to a more flexible and open Adabas database without the need to change original DL/1 or VSAM applications.

**Increase productivity**

• **Adabas Manager**

Provides a single, browser-based interface to administer Adabas and add-on products, using point and click functionality.

• **Adabas Review**

Is a monitoring tool that helps administrators identify performance problems, generate SMF records, and optimize database performance and CPU consumption.

**Ensure database security and compliance**

• **Adabas SAF Security**

Enables administrators to monitor access and usage for compliance issues and potential security breaches. Controls database access based on profiles and connects directly with external security tools such as RACF, CA-ACF2 or CA-Top Secret to minimize administrative efforts for managing security definitions.

**Improve performance**

• **Adabas Caching Facility**

Buffers data in main memory, decreasing the number of physical reads and increasing database performance.

	Mainframe					Open Systems					
	z/OS	z/VSE	z/VM	MSP	BS2000	X86 Linux	z/Linux	AIX	HP-UX	Solaris	Windows
Adabas	+	+	+	+	+	+	+	+	+	+	+
Caching Facility	+	+	+		+						
Cluster Services	+										
Delta Save	+	+	+	+	+						
DL/1 Bridge	+	+									
Entire Net-Work	+	+	+	+	+	+	+	+	+	+	+
Event Replicator	+	+			+	+	+	+	+	+	+
Fastpath	+	+	+	+	+						
Manager	+	+	+		+						
Parallel Services	+	+			+						
Review	+	+	+	+	+						
SAF Security	+										
SOA Gateway	+	+			+	+	+	+		+	+
SQL Gateway	+	+	+		+	+					
Statistics Facility	+	+	+		+						
Text Retrieval	+	+	+		+	+	+	+	+	+	+
Vista	+	+	+		+		+	+		+	+
VSAM Bridge	+	+									

**Adabas Platform Support**

- **Adabas Fastpath**

Automatically and intelligently stores frequently accessed records in a memory space to reduce CPU usage and optimize performance. Fastpath implementations have resulted in CPU savings up to 70%.

- **Adabas Parallel Services**

Enables Adabas to take advantage of Symmetric Multi-Processing (SMP) technology. With Adabas Parallel Services, Adabas processes commands in parallel via multiple Adabas nuclei running on a multi-engine CPU. This improves application performance, throughput and scalability.

- **Adabas Vista**

Is a powerful partitioning tool that allows very large Adabas files to be separated into multiple, smaller physical files with no changes to the application. Benefits include: improved performance, increased DBA productivity and controlled data access.

## Reduce backup time and cost

- **Adabas Delta Save**

Adabas Delta Save enables administrators to backup only the changed blocks in the database from the time of the previous backup. Periodic "Delta Save" backups can be merged offline with the last full DB backup to create a current full DB backup tape. Delta Save is a very cost effective product, saving up to 90% of a DBA's time and resources on backup functions.

## Ensure 24/7 availability

- **Adabas Statistics Facility**

Is a monitoring tool used to analyze trends for long-term planning of disk-space consumption and memory utilization.

- **Adabas Cluster Services**

Adabas Cluster Services is specifically designed to run in an IBM Parallel Sysplex environment: where up to 32 Adabas images can be executed in parallel in full data sharing mode. With Adabas Cluster Services, 24/7 availability of the Adabas database is assured.

- **Event Replicator for Adabas**

Event Replicator for Adabas allows you to create a "hot stand-by" disaster recovery database which can be brought up quickly in the event of a failure such as a fire, flood, earthquake, etc. Unlike cumbersome time-consuming Extract-Transform-Load (ETL) tools or protection-log based solutions, Event Replicator for Adabas is real time, automated and ensures 24/7 database availability for business continuity.

## SOFTWARE AG COMMUNITIES

Software AG's Developer Communities include an Adabas Community to keep you connected to Adabas users and experts around the world. By registering for the Adabas Community, you can participate in discussion forums that enable you to exchange best practices, enhance productivity and improve your technical skills. Registered members can also subscribe to the TECHniques newsletter, which offers technical tips and tricks. Membership to the Developer Community is FREE. For more information, please visit: <http://developer.softwareag.com>

## WORLDWIDE USER GROUPS

Our strong network of worldwide user groups also helps build Adabas and Natural skills. Through a local user group, you can exchange ideas and discuss technology issues, experiences and concerns. Many groups offer classes that provide product hints and tips. Through ServLine24, regional meetings and annual International Conferences, user group members have access to a broad product knowledge base. To learn more, please visit: [www.softwareag.com/corporate/community/usergroup](http://www.softwareag.com/corporate/community/usergroup)

To find the Software AG office nearest you, please visit [www.softwareag.com](http://www.softwareag.com)

## ABOUT SOFTWARE AG

Software AG is the world's largest independent provider of Business Infrastructure Software. Our 4,000 global enterprise customers achieve business results faster by modernizing, integrating and automating their IT systems and processes. As a result, they rapidly build measurable business value and meet changing business demands. Based on our solutions, organizations are able to liberate and govern their data, systems, applications, processes and services – achieving new levels of business flexibility.

Our leading product portfolio includes solutions for high performance data management, developing and modernizing applications, enabling service oriented architecture, and improving business processes. By combining our technology with industry expertise and best practices experience, our customers improve and differentiate their businesses – faster.

Software AG – Get There Faster.™

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