

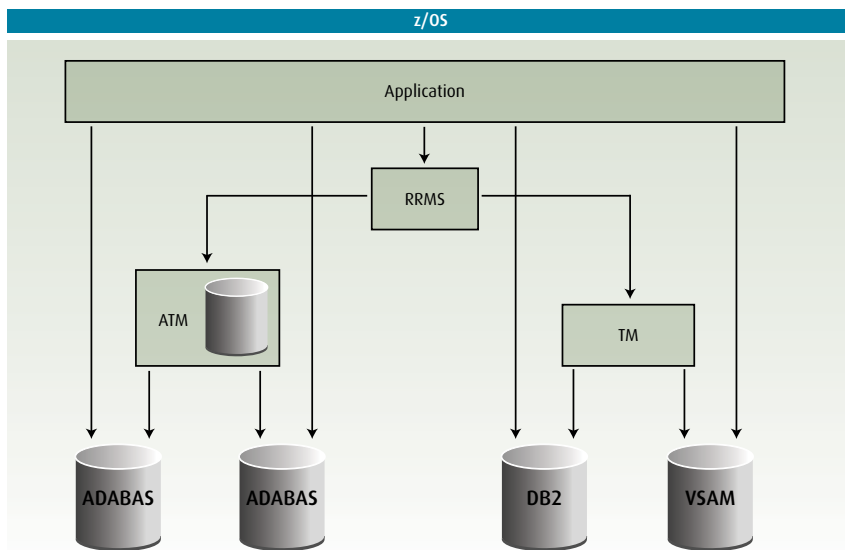
# Adabas Transaction Manager

## DISTRIBUTE TRANSACTIONS TO OPTIMIZE SYSTEM PERFORMANCE

By distributing Adabas transactions across multiple databases, you can improve the performance of your mission-critical Adabas database.

Adabas Transaction Manager synchronizes transactions across databases with two-phase commit. These transactions can span multiple Adabas databases or even DB2 as well as other resource managers, such as MQ Series, VSAM and IMS. You can use this add-on tool with Adabas for mainframes Version 7 or above.

Improve data access and increase system performance by using two-phase commits across multiple Adabas databases or from Adabas to other mainframe databases and middleware. Such synchronization helps ensure data consistency across databases and coordinates the changes made to each.



### HOW IT WORKS

Adabas Transaction Manager coordinates changes to Adabas databases participating in global transactions, plays a key role in coordinating global transactions involving databases on more than one system image and also processes two-phase commit instructions from higher-level transaction managers, allowing transactions to encompass both Adabas and non-Adabas databases.

A global transaction is a unit of work that involves changes to resources under the control of more than one database operating in one or more machines. The databases and machines can be local or remote.

Adabas Transaction Manager plays a key role in coordinating global transactions involving databases on more than one system image.

The two-phase commit protocol is used to synchronize updates to different databases so that they either all succeed or all fail. Each participating database processes its part of a global transaction independently, and the transaction as a whole is either committed or backed out in two phases:

- In phase one, all databases participating in the global transaction are asked whether the local part of the transaction can be committed.
- When all participating databases have replied, the global transaction is committed if all replies are positive, or backed out if any reply is negative.

During phase one, participating databases must retain all transaction resources to prepare for any event during phase two. The two-phase commit protocol guarantees the fundamental features of reliable transactions: atomicity, consistency, isolation and durability.

## KEY FEATURES

### • Full control over transaction processing

The Adabas Transaction Manager includes an online administration system available through the Adabas Online System. This is integrated into the Adabas package from Version 7 on. Online administration can be used to: display in-flight transaction details; display pending END TRANSACTION (ET) data; forcibly terminate all in-flight transactions; forcibly terminate a single incomplete transaction; display suspect transactions; and list participating databases.

### • Cross-platform and cross-DBMS transactions

Software AG's long-term goal is to support the two-phase commit protocol throughout your IT landscape. From Adabas Version 7 for mainframes and up, it is possible to synchronize transactions involving multiple Adabas mainframe database systems. Adabas Transaction Manager works across mainframe Adabas and mainframe DB2, IMS and VSAM databases using IBM's CICS/RMI or RRMS transaction manager. Any other DBMS with an interface to CICS/RMI

or RRMS can also participate in a distributed transaction. Adabas Transaction Manager is available for BS2000, z/OS and z/VSE.

## YOUR BENEFITS

### • Minimize processing overhead

Each database can be included or excluded from global transaction processing, allowing you to minimize overhead. For example, development databases generally do not require the same guarantees of transaction integrity as production databases. Similarly, system files do not need the same degree of protection as application data files. So if you maintain application data files and system files in different databases, those containing system files can often be excluded from two-phase commit processing.

### • Improve data access

Adabas Transaction Manager is an ideal solution when you've purchased an additional database and wish to adapt an application to access the data it contains in addition to the original database(s). It's also useful when you're deploying a standard software package and need to access both data incorporated in the package and other company data within a single transaction.

### • Make smoother migrations

You might also use Adabas Transaction Manager when migrating to a new database. Legacy applications can still use data in the old database while new applications access data both from the new and old database for a certain period.

## GET THERE FASTER WITH ADABAS TRANSACTION MANAGER

Achieve your data access goals faster with Adabas Transaction Manager, one more way Software AG helps you streamline data management and protect your existing IT investments.

## 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)

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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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