

Adabas for Linux and Cloud

Adabas Version 7.4 Release Notes

Version 7.4.0

October 2025

This document applies to Adabas for Linux and Cloud Version 7.4.0 and all subsequent releases.

Specifications contained herein are subject to change and these changes will be reported in subsequent release notes or new editions.

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1 Adabas Version 7.4 Release Notes

This document gives an overview of the features of Adabas Version 7.4 that have been introduced or modified since the previous release (Version 7.3). It also describes how to convert to and from previous database versions, for example, versions 7.2 and 7.3.

The document covers the following topics:

- **General Information**
- **New, Modified and Dropped Features**
- **Limitations and Restrictions**
- **Converting a Database from a previous Version to Version 7.4 and vice versa**
- **Announcements**

2 About this Documentation

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Document Conventions

Convention	Description
Bold	Identifies elements on a screen.
Monospace font	Identifies service names and locations in the format <i>folder.subfolder.service</i> , APIs, Java classes, methods, properties.
<i>Italic</i>	Identifies: Variables for which you must supply values specific to your own situation or environment. New terms the first time they occur in the text. References to other documentation sources.
Monospace font	Identifies: Text you must type in. Messages displayed by the system. Program code.
{ }	Indicates a set of choices from which you must choose one. Type only the information inside the curly braces. Do not type the { } symbols.
	Separates two mutually exclusive choices in a syntax line. Type one of these choices. Do not type the symbol.
[]	Indicates one or more options. Type only the information inside the square brackets. Do not type the [] symbols.
...	Indicates that you can type multiple options of the same type. Type only the information. Do not type the ellipsis (...).

Online Information and Support

Product Documentation

You can find the product documentation on our documentation website at <https://documentation.softwareag.com>.

Product Training

You can find helpful product training material on our Learning Portal at <https://learn.software-ag.com>.

Tech Community

You can collaborate with Software GmbH experts on our Tech Community website at <https://tech-community.softwareag.com>. From here you can, for example:

- Browse through our vast knowledge base.
- Ask questions and find answers in our discussion forums.
- Get the latest Software GmbH news and announcements.
- Explore our communities.
- Go to our public GitHub and Docker repositories at <https://github.com/softwareag> and <https://hub.docker.com/publishers/softwareag> and discover additional Software GmbH resources.

Product Support

Support for Software GmbH products is provided to licensed customers via our Empower Portal at <https://empower.softwareag.com>. Many services on this portal require that you have an account. If you do not yet have one, you can request it at <https://empower.softwareag.com/register>. Once you have an account, you can, for example:

- Download products, updates and fixes.
- Search the Knowledge Center for technical information and tips.
- Subscribe to early warnings and critical alerts.
- Open and update support incidents.
- Add product feature requests.

Data Protection

Software AG products provide functionality with respect to processing of personal data according to the EU General Data Protection Regulation (GDPR). Where applicable, appropriate steps are documented in the respective administration documentation.

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General Information

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This chapter provides information which you should be aware of before you install and use Adabas Version 7.4.

Supported Operating Systems

Software GmbH generally provides support for the operating system platform versions supported by their respective manufacturers; when an operating system platform provider stops supporting a version of an operating system, Software GmbH will stop supporting that version.

For information regarding Software GmbH product compatibility with IBM platforms and any IBM requirements for Software GmbH products, please review the [Product Compatibility for IBM Platforms](#) web page.

Before attempting to install this product, ensure that your host operating system is at the minimum required level. For information on the operating system platform versions supported by Software GmbH products, complete the following steps.

1. Access Software GmbH's Empower web site at <https://empower.softwareag.com>.
2. Log in to Empower. Once you have logged in, expand **Products & Documentation** in the left menu of the web page and select **Product Version Availability** to access the Product Version Availability screen.
3. Use the fields on the top of this screen to filter its results for your Software GmbH product. When you click the **Search** button, the supported Software GmbH products that meet the filter criteria are listed in the table below the filter criteria.

This list provides the following information for the supported operating systems:

- the general availability (GA) date of the product;
- the date the operating system platform is scheduled for retirement (OS Retirement);
- the end-of-maintenance (EOM) date for the product; and
- the end-of-sustained-support (EOSS) date for the product.



Note: Although it may be technically possible to run a new version of your Software GmbH product on an older operating system, Software GmbH cannot continue to support operating system versions that are no longer supported by the system's provider. If you have questions about support, or if you plan to install this product on a release, version, or type of operating system other than one listed on the Product Version Availability screen described above, consult technical support to determine whether support is possible, and under what circumstances.

Installation

System Requirements

The system requirements for the current version of Adabas are contained in the installation documentation *System Requirements* (for Linux platforms) and *System Requirements* (for Windows platforms).

Installing

At the date of the release of Adabas, hotfixes may already have been released for this version. It is strongly recommended to install them, for Adabas *and* Adabas Client.

Compatibility with Previous Versions

If you are upgrading from an earlier version of Adabas to Version 7.4, you should first read the release notes of any intermediate or skipped versions in order to find out about any compatibility issues that might exist.

Support for Adabas Version 7.4

Adabas Version 7.4 is the official replacement for Adabas Version 7.3. Details of when support for earlier versions will cease can be found in Empower.

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New, Modified and Dropped Features

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This chapter describes the new and modified features in Adabas Version 7.4:

New Features

A more detailed description of the new features can be found in the corresponding section of the *Adabas Utilities* manual.

ADANUC

- ADANUC has two new nucleus options: FILE_UPDATE and SHUTDOWN_STATISTICS.
 - If FILE_UPDATE is selected, the file update time is collected during the insert (Nx), update (A1) and delete (E1) commands and displayed with ADAREP file information.
 - If SHUTDOWN_STATISTICS is selected, all database statistics are printed out during database shutdown. These statistics contain information about database activities, the buffer flush, buffer pool, file I/O, command table, format pool, high water marks, thread table and the database cluster status.
- The Audit Trail configuration has new parameters: TIMEZONE and MAXFILESIZE.
 - TIMEZONE: Choose the timestamp layout in Universal Coordinated Time (UTC) or local time.
 - MAXFILESIZE: Maximum file size to switch to the next sequential audit file. The default value is 100MB.
- New nucleus parameter: SET_FILE_STATS. If the parameter is set to one or more files, detailed I/O statistics for the specified files is added to the output when option SHUTDOWN_STATISTICS is set.

ADAOPR

- ADAOPR has new commands: TCPENABLE and TCPDISABLE. These control parameters enable or disable TCP connectivity by turning TCP functionality on or off during database operation. When executing ADAOPR TCPDISABLE, all open TCP connections are closed. These commands work only when the Adabas Nucleus was started with the ADATCP parameter.
- New Force End Of File (FEOF) command option: ALOG to close the current Audit Trail log file and open a new one.

ADARBA

ADARBA has a new command: UPGRADE to extend the RBAC system file with additional security definitions for the utilities ADADBM and ADAOPR.

ADAREC

ADAREC has a new command: BACKOUT.

ADAREP

ADAREP has a new parameter: OUTPUTFDT. The parameter will cause ADAREP to write one or more FDTs into sequential file(s) REPFDTn as input, for example, for the ADAFDDU utility.

ADASEL

ADASEL (PLOG Selection Tool) is a new utility. The ADASEL utility selects information from the protection log (PLOG) or WORK container. ADASEL decompresses the information and writes it out.

Adabas Cluster for Linux

- Encrypted intra-cluster communication with TLS/SSL is now supported. A set of new parameters have been implemented to meet the TLS/SSL requirements:
 - CLUSTER_CLIENT_CADIR
 - CLUSTER_CLIENT_CAFILE
 - CLUSTER_CLIENT_CERTFILE
 - CLUSTER_CLIENT_KEYFILE
 - CLUSTER_CLIENT_VERIFY
 - CLUSTER_CLIENT_PASSWD
 - CLUSTER_SERVER_CADIR
 - CLUSTER_SERVER_CAFILE
 - CLUSTER_SERVER_CERTFILE
 - CLUSTER_SERVER_KEYFILE
 - CLUSTER_SERVER_VERIFY
 - CLUSTER_SERVER_PASSWD
 - CLUSTER_TLS_ENABLED
- ADABAS CLIENT has implemented a new connection string option: SECONDARY_ONLY=[YES|NO]. With SECONDARY_ONLY=YES, all client calls are sent to a secondary cluster node. No updates are possible.

Restriction: If the secondary node becomes the primary node, the client continues on this node. This may change in one of the fixes for Adabas 7.4.

See the *Release Notes* for Adabas Cluster for more information.

Adabas Encryption for Linux

The Key Management System of HashiCorp (HashiCorp Vault) is now supported by Adabas Encryption.

Adabas Role-Based Security

The utilities ADADBM and ADAOPR are now protected at control parameter level. This allows you to secure specific functions of these utilities.

Adabas REST Administration

- Command count field is added to the user queue entries.
- Restserver allows to disable/enable TCP/IP communication for database and get the current status of it. See also ADAOPR TCPENABLE and ADAOPR TCPDISABLE command.
- New endpoint /adabas/{clusterid}/getclusterinfo is available

Modified Features

ADAVFY

The ADAVFY utility prepends a timestamp to each output line.

ADANUC

- The field ISN was added to the Audit Trail Entry.
- UNBUFFERED=CLEAR and UNBUFFERED=NOLOG will be activated only if a valid ADC or AEL license is found during startup.

ADAREP

The ADAREP function FILE output has been extended by the field Last FDT Modification.

Adabas REST Administration

- Modified /adabas/cluster endpoint from OnlineOffline to Online mode only.
- Introduced two new general error messages: PAIF00039 and PAIF00040.
- Addlob to file operation is now supported in both Online and Offline modes.
- The LastUpdated timestamp field is now available in the FCB.
- Modified endpoint from /adabas/database/{dbid}/tcp to /adabas/database/{dbid}/tcpinfo.
- Either SSLPORT or SSLPORTNUMBER is accepted for PUT command, for example:

/adabas/database/{dbid}/parameter?sslportnumber=5555&type=static

Dropped Features

No features have been dropped.

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Limitations and Restrictions

■ Encrypted Databases	18
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This chapter describes the limitations and restrictions that apply to Adabas Version 7.4.

Encrypted Databases

- [Azure KMS](#)
- [Google Cloud KMS](#)
- [HashiCorp Vault KMS](#)

Azure KMS

The conversion of a database to a version prior to Version 7.2 is not supported for databases using the Azure Key Management System.

Google Cloud KMS

The conversion of a database to a version prior to Version 7.3 is not supported for databases using the Google Cloud Key Management System.

HashiCorp Vault KMS

The conversion of a database to any previous version is not supported for databases using the HashiCorp Vault Key Management System.

6 Converting a Database from a Previous Version to Version

7.4 and vice versa

- Upgrading Databases from Versions 7.2 and 7.3 to Version 7.4 20
- Downgrading Databases with Version 7.4 to a Previous Version 21

This section describes how to convert an existing database from one version to another.

Procedural Steps

The following procedural steps are highly recommended when converting a database:

1. Create a backup of your existing database. Use the old version of ADABCK to back up the whole database.
2. Modify the security configuration files.
3. Convert the version of the database by performing the steps described below.
4. Validate the consistency of the database. Use the FIELD and INDEX functions of the ADAVFY utility to validate the consistency of the database.

Upgrading Databases from Versions 7.2 and 7.3 to Version 7.4

Upgrading a Database in Place

A database running a version prior to version 7.4 can be upgraded in two ways. The easiest and most recommended way is to convert it in place by running the utility ADACVT.

Alternative Method to Upgrade a Database

You can also convert a database from an older version to Version 7.4 using the utility ADABCK. This is done by restoring a backup made with ADABCK of the older version and restoring it with ADABCK Version 7.4. ADABCK will make the necessary changes during the restore operation.



Note: Because the internal structure of the database has changed, you must first delete the database container files in the target environment, then you can restore the database.

Upgrading Databases with Role-Based Access Control (RBAC) enabled

After upgrading with ADACVT or ADABCK, you must call the command ADARBA DBID=<dbid> UPGRADE to add permissions for the utilities ADADBM and ADAOPR. Otherwise, these utilities are not able to run.

Downgrading Databases with Version 7.4 to a Previous Version

You can use the utility ADACVT to convert a database to a previous version. ADACVT converts the database in place to the selected target version. A downgrade is not possible if features introduced with a more recent version than the target version were used. Downgrading an encrypted database can only be done if the target version supports the used key management system.

7 Announcements

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This section contains information about features that will be dropped or changes in future versions of Adabas.

Adabas 7.0.1 and 7.1.1

With the release of Adabas 7.4, the support for Adabas 7.0.1 and 7.1.1 ends.

Return Codes

In future versions of Adabas, the ACBX interface will not support the additions 2 field any longer. Instead, the error subcode (first two bytes of the additions 2 field) will be returned in the acbxerrc field and the alphanumeric representation of the subcode (third and fourth byte of the additions 2 field) in the acbxerrb field.