

Adabas for Linux and Cloud

Adabas Version 7.1.1 Release Notes

Version 7.1.1

April 2024

This document applies to Adabas for Linux and Cloud Version 7.1.1 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 7.1.1 Release Notes

This document gives an overview of the features of Adabas Version 7.1.1 that have been introduced or modified since the previous release (Version 7.1). It also describes how to convert to and from previous database versions, e.g., versions 6.7.1, 7.0 and 7.1.

The document contains the following sections:

- **General Information**
- **New, Modified and Dropped Features**
- **Limitations and Restrictions**
- **Converting a Database from a previous Version to Version 7.1.1 and vice versa**
- **Announcements**
- **Documentation and Other Online Information**

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>.

In addition, you can also access the cloud product documentation via <https://www.software-ag.cloud>. Navigate to the desired product and then, depending on your solution, go to “Developer Center”, “User Center” or “Documentation”.

Product Training

You can find helpful product training material on our Learning Portal at <https://knowledge.softwareag.com>.

Tech Community

You can collaborate with Software AG 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 AG 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 AG resources.

Product Support

Support for Software AG 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 7.1.1

Supported Operating Systems

Software AG 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 AG will stop supporting that version.

For information regarding Software AG product compatibility with IBM platforms and any IBM requirements for Software AG 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 AG products, complete the following steps.

1. Access Software AG's Empower web site at <https://empower.softwareag.com>.
2. Log into Empower. Once you have logged in, you can 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 AG product. When you click the **Search** button, the supported Software AG products that meet the filter criteria are listed in the table below the filter criteria.

This list provides, by supported operating system platform:

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



Note: Although it may be technically possible to run a new version of your Software AG product on an older operating system, Software AG 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 Software AG 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).

Compatibility with Previous Versions

If you are upgrading from an earlier version of Adabas to Version 7.1.1, 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 7.1.1

Adabas Version 7.1.1 is the official replacement for Adabas Version 7.0.1. 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 7.1.1

New Features

Adabas Cluster for Linux

The functionality of Adabas has been extended by the feature Adabas Cluster for Linux. This feature must be purchased separately; it requires the additional licensing key for product ADC.

Adabas Cluster for Linux comprises several nodes, each running an own data base. Transactions executed on the primary node are replicated to all other nodes in the cluster. If the primary node fails, another node from the cluster will seamlessly take over the role of the primary node. For further details, please refer to the Adabas Cluster for Linux documentation.

Adabas Encryption for Linux

Starting with this version, PLOG files and files created by ADABCK can be encrypted.

Adabas RESTful Server

The Go-Version delivered with this release replaces the Java version of Adabas RESTful Server delivered with earlier releases. In addition, the upcoming release of Adabas Manager can use the functionality of Adabas RESTful Server to create encrypted databases.

Modified Features

On IO systems with a high latency, for example on cloud environments, the overall ADABAS performance has been increased using buffered IO.

The adanuc parameter `UNBUFFERED=CLEAR` has to be set to activate buffered IO. The integrity of the database is always guaranteed for the setting `UNBUFFERED=CLEAR`.

Dropped Features

License metering via Command Central has been removed from this version and is no longer supported.

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Limitations and Restrictions

■ Adabas RBAC	16
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This chapter describes the limitations and restrictions that apply to Adabas Version 7.1.1

Adabas RBAC

The conversion from and to a version prior to Version 6.7.1 is no longer supported when the Adabas Role-Based Security feature is enabled.

6 Converting a Database from a previous Version to Version

7.1.1 and vice versa

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

When the Adabas Role-Based Security feature is enabled, proceed with the steps described in the section [Upgrading Databases with Adabas Role-Based Security](#).

The sections below describe a conversion of databases without the security feature:

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 backup 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.

Modify the Security Configuration Files (Version 6.7.1 and above)

The following settings in the security configuration file *adaauth.ini* are mandatory:

```
ACTION=YES  
MODE=ADABAS
```

Please refer to the section *Configuration of Adabas Role-Based Security* for further information on the file location and content.

Upgrading Databases from Versions 6.7.1 through 7.0.1 to Version 7.1.1

Upgrading a Database in Place

A database running a version prior to version 7.1.1 can be upgraded in several ways. The easiest and recommended way is to convert it in place by running *ADACVT*. If Adabas Role-Based Security is enabled, refer to the section [Upgrading Databases with Adabas Role-based Security enabled](#).

Alternative Method to Upgrade a Database

You can also convert a database from an older version to Version 7.1.1 using the utility *ADABCK*. This is done by restoring a backup made with *ADABCK* of the older version and restoring it with *ADABCK* Version 7.1.1. *ADABCK* will make the necessary changes during the restore operation.

The internal structure of the database has changed. Therefore you must first delete the database in the target environment – then you can restore the database.

If the source database had been encrypted, the key management system used must provide the appropriate keys. For details refer to the section *Adabas Encryption for Linux*.

Upgrading Databases with a Version Prior to Version 6.7.1

If you want to convert a database from Version 3 or Version 5, you must first upgrade the database to Version 6.7.1, as described in the *Release Notes* of the version-specific documentation, and then proceed as described above.

Downgrading Databases with Version 7.1.1 to a Previous Version

Two options are available to go back to a previous version. After having verified the security configuration files, you can either convert a database in place to a previous version, or you can make a backup of the database and restore it (to a different place). When the Adabas Role-Based Security feature is enabled, a downgrade to a version prior to 6.7.1 is not supported.

Modify the Security Configuration Files

The following settings in the security configuration file *adaauth.ini* are mandatory:

```
ACTION=YES  
MODE=ADABAS
```

Please refer to the section *Configuration of Adabas Role-Based Security* for further information on the file location and content.

Downgrading a Database in Place

You can use the utility *ADACVT* to convert a database to a previous version. This is the recommended method. *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. This method is not applicable if the encrypted source database is to be decrypted – in this case proceed as described in the section [Alternative Method to Convert from Version 7.1.1 to an older Version](#).

Please bear in mind that ADATCP is available since Version 6.7.1. Going back to an older version might imply changes in your infrastructure if ADATCP is in use.

Alternative Method to Convert from Version 7.1.1 to an older Version

It is also possible to convert a Version 7.1.1 database back to an older version using the utility *ADABCK*. This is done by restoring a backup made with *ADABCK* Version 7.1.1 with the utility *ADABCK* of the respective target version.

The internal structure of the database has changed. Therefore you must first delete the database in the target environment before you restore the database. However, this method is not applicable if features introduced in more recent versions than the target version were used. It is not recommended either, if the Adabas Role-Based Security feature is used.

Versions 6.7.1 and below do not support encryption; the encrypted database must first be decrypted. A backup of an encrypted database can be restored to an older version without encryption in a similar way. For this purpose, first run the restore operation with option *ENCRYPTION=NO*. The backup taken from the decrypted database can be used to restore the database for use in a previous version.

If the source database had been encrypted, the key management system used must provide the appropriate keys. For details refer to the section *Adabas Encryption for Linux*.

Please bear in mind that ADATCP is available since Version 6.7.1. Going back to an older version might imply changes in your infrastructure if ADATCP is in use.

Upgrading Databases with Adabas Role-based Security enabled

This section describes how to convert a database when the Adabas role-based security feature is enabled. Note that a conversion is only supported for Adabas version 6.7.1 and above.

Procedural Steps

The procedure to convert a database with Adabas role-based security is:

1. Create a backup of your existing database, as described above;
2. Modify the security configuration files;
3. Convert the database using ADACVT;
4. Validate the consistency of the database, as described above.

Modify the Security Configuration Files

The following settings in the security configuration file *adaauth.ini* are mandatory:

```
ACTION= YES
MODE=ADABAS
```

Please refer to the section *Configuration of Adabas Role-Based Security* for further information on the file location and content.

Authorization

Perform the following steps if the Authorization feature is enabled for your database:

MODE INI

- Save the security definitions that are stored in the security configuration file *adarbac.ini*;
- Use ADADBM RBAC_FILE to load the RBAC system file;
- Use ADACVT to convert the database;
- Use ADARBA to define your site-specific security definitions that are defined in the file *adarbac.ini*.

MODE ADABAS

- Save the security definitions that are stored in the RBAC system file;
- Use ADACVT to convert the database;

Audit Trail

The location and layout of the audit trail log file created by Authentication has been modified, please refer to the *Audit Trail* section of the document *Adabas Role-Based Security*.

7 Announcements

■ RAW Devices	24
■ Tape Devices	24

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

RAW Devices

Adabas will no longer support RAW devices with the next version.

RAW devices are no longer supported by SUSE Linux Enterprise Server 15.

Data stored on RAW devices must be moved to files held in the filesystem.

Tape Devices

Adabas will no longer support tape devices/tape units with the next version.

There will be no replacement for this functionality.

8 Documentation and Other Online Information

■ Software AG Documentation Website	26
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■ Software AG Empower Product Support Website	26

The following online resources are available for you to obtain up-to-date information about your Software AG products:

Software AG Documentation Website

You can find documentation for all Software AG products on the Software AG Documentation website at <https://documentation.softwareag.com>. This site requires Empower credentials. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts) or you can also use the TECHcommunity website to access the latest documentation.

Software AG TECHcommunity

You can find documentation and other technical information on the Software AG TECHcommunity website at <http://techcommunity.softwareag.com>. You can:

- Access product documentation, if you have TECHcommunity credentials. If you do not, you will need to register and specify "Documentation" as an area of interest. If you already have TECHcommunity credentials, you can adjust your areas of interest on the TECHcommunity website by editing your TECHcommunity profile. To access documentation in the TECHcommunity once you are logged in, select **Documentation** from the **Communities** menu.
- Access articles, demos, and tutorials.
- Use the online discussion forums, moderated by Software AG professionals, to ask questions, discuss best practices, and learn how other customers are using Software AG technology.
- Link to external websites that discuss open standards and web technology.

Software AG Empower Product Support Website

You can find product information on the Software AG Empower Product Support website at <https://empower.softwareag.com>. This site requires Empower credentials. If you do not have an Empower user ID and password yet, you will find instructions for registering on this site (free for customers with maintenance contracts).

To submit feature/enhancement requests, get information about product availability, and download products and certified samples, select **Products & Documentation** from the menu once you are logged in.

To get information about fixes and to read early warnings, technical papers, and knowledge base articles, select **Knowledge Center** from the menu once you are logged in.