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*****
*****
*****          readme.txt          *****
*****
*****          This file contains the latest technical details for *****
*****          this ADABAS version. *****
*****
*****
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Adabas on Linux, UNIX and Windows   Version 7.0.1           October 2021
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1. Documentation  
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The Adabas documentation is available as HTML and PDF:  
<https://documentation.softwareag.com>

2. Documentation Errors  
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All known documentation errors have been corrected in the current version available at  
<https://documentation.softwareag.com>

3. Changes with v7.0.1  
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Since Adabas 6.4 the installation procedure is accomplished by the Software AG Installer. It is strongly recommended to read the installation manual and the Release Notes before starting with the installation of Adabas.

A correction in timeout handling, namely ADAOS-5979, limits the timeouts for a session to be in range with the documented values 20 - 25920000 seconds.

Please note that this might have implications for your application.

4. Official Fix  
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There may be severe errors in Adabas that have been corrected after the freeze of Adabas v7.0.1. Those corrections will be announced in Software AG's support system Empower. They should be applied after installing Adabas v7.0.1 via Software AG's Update Manager.

5. Compatibility with Earlier Adabas Versions  
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Adabas v7.0.1 is fully downwardly compatible with earlier Adabas versions. Earlier Adabas versions are also upwardly compatible with Adabas v7.0.1, provided you don't use new Adabas features that were not available in the earlier version. However, a conversion of the databases is required when the version is changed.

6. New Features Not Mentioned in the Release Notes  
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All new features are described in the Release Notes.

7. Issues fixed with this Release  
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Adabas v7.0.1 contains all fixes made available with Adabas v7.0 and a series of additional corrections, as shown below.

ADAOS-5798

Improve adashow to display TCP/IP port numbers defined in DBnnn.INI parameters. A new function of adaini, adaini dbid=<dbid> verify, will replace abbreviated entries with their full names.

Please see also the Release Notes for this version.

ADAOS-5799

Revise ADABCK's OVERLAY functionality to properly load an RBAC system file if the option FMOVE is used.

ADAOS-5801

Revise RBAC Audit trail filter functions.

ADAOS-5802

Support RBAC system file with ASSO blocks >2k.

ADAOS-5806

Revise the Audit trail of Authorization for Direct Call Interface. The Audit trail for Authorization for Direct Call Interface is not mandatory anymore.

The audit trail configuration now applies to both, Audit Trail for Authentication and Audit trail for Authorization for Direct Call Interface. The configuration settings are stored in the section [AUDIT\_TRAIL] of the DBnnn.INI file. By default, ACTION is set to NO, and FILTER is set to ALL.

Adapt these settings as required.

ADAOS-5834

Avoid hang of Adabas ADATCP in libevent init.

ADAOS-5836

Revise ADARBA parameters GRANT and REVOKE.  
Keyword OBJECT is mandatory in case of command assignment.

ADAOS-5837 / ADAOS-5838

Call User Exit 21 also if NAT review data (P-Buffer) are recorded.

ADAOS-5846

Do not write data beyond the record buffer in a LF call.

ADAOS-5853

Do not echo the password "sec\_pwd" in adatst if ADAPARLOG=YES

ADAOS-5854

Correct security user information in the Audit trail for Authentication if WARN mode is enabled.

ADAOS-5741 / ADAOS-5863 / ADAOS-5877

Correct FB translation: avoid sporadic crashes if superdescriptors are involved.

ADAOS-5866

Correct handling of L3/L6 (read logical) in an RBAC enabled environment.

ADAOS-5870

Avoid response code 50/31 with Adabas OP-command and TZ-defined

ADAOS-5874

Avoid crash in A2A replication while backing out a transaction that could not be replicated.

ADAOS-5892

Improve ADAREC to always use ET data recorded on WORK.

ADAOS-5895

Revise the audit trail entry for Authentication for the case that the security user is not available.

ADAOS-5896

Correct free disk space calculation for Linux.

ADAOS-5897

Increase log area to avoid nucleus crash when SSL port is in use.

ADAOS-5902

Correct synchronization of nucleus with online ADABCK using ADATCP.

ADAOS-5908

Avoid handle leak by closing socket(s) after finalizing session.

ADAOS-5912

Avoid sporadic nucleus crash using ADARBA.

ADAOS-5922

Prevent memory corruption copying index to memory.

ADAOS-5924

Prevent ADAOPR DISPLAY=TCP to crash the nucleus.

ADAOS-5925

Improve ADAOPR DISPLAY=TCP to display more detailed information.

ADAOS-5937

Improve ADAINI to not damage configuration files.

ADAOS-5938

RBAC: Return retrieved data base data in "warning mode", even if authentication fails.

ADAOS-5948

Improve adashow's output.

ADAOS-5955

RBAC: Do not ignore objects on permission assignments.

ADAOS-5970

Issue advisory lock in time (global format buffer handling).

ADAOS-5973

Improve cvt\_fmt to correctly initialize MU/PE field-length and to extend size for hex dump of input buffer.

ADAOS-5979

Limit timeouts for a session supplied in an OP-command to either its minimum or its maximum value (i.e. 20 or 25920000).

Please note that this might have implications on your application. Please see the Release Notes for this version.

ADAOS-5990

Avoid crash in ADATCP by increasing stack size.

## 8. Installation Issues on UNIX

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There are no known installation issues on UNIX.

## 9. Installation Issues on Windows

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There are no known installation issues on Windows.

## 10. adalnk Changes

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The adalnk modules provided with this version contain several fixes of problems with the client-server communication. For this reason, you should no longer use adalnk modules delivered with previous Adabas versions.

## 11. Adabas Databases on File Systems Mounted with NFS

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Generally, NFS mounts are possible when installing ADABAS containers on

a file system. It has been noticed that problems may occur in environments using automounted file systems.

If temporary mounts are being used, the SAG environment variables must be set to the file system path without the temporary mount reference e.g. /FS/fs0703/SAG should be used instead of /tmp\_mnt/FS/fs0703/SAG.

If you install ADABAS on NFS-mounted devices, the NFS mount must support

installations with root permissions. This means in particular:

- No root squash.

- No all squash.
  - No conversion of the installation user ID to ANOID.
  - At least RW-access.
- Additionally, it is required that the operating systems concerned support the full and correct NFS functionality.

## 12. Operating System Dependent Notes

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### Linux Intel/AMD

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On Linux the "inotify" file system monitoring mechanism is used. Therefore, a new file `"/tmp/.adabas_db<dbid>.watch"` will be created to synchronize with client processes. Please do not delete this file as long as the database <dbid> is active.

The "inotify" mechanism requires additional kernel parameter settings. The following parameters should be set in the `/etc/sysctl.conf` according to the number of Adabas client processes:

`fs.inotify.max_user_instances`

This specifies an upper limit on the number of inotify instances that can be created per real user ID (at least number of parallel used databases multiplied with the number of client processes).

`fs.inotify.max_user_watches`

This specifies an upper limit on the number of watches that can be created per real user ID (at least number of parallel used databases multiplied with the number of client processes).

See also `"/proc/sys/fs/inotify"`

## 13. Known Severe Issues

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There are no known issues in this release.

(end of document)