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***** readme.txt
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***** This file contains the latest technical details for
*****
***** this ADABAS version.
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ADABAS for Open Systems Version 6.7 October 2018
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Contents
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1. Documentation

The Adabas documentation is available in Empower as HTML and PDF documents.

2. Documentation Errors

All known documentation errors have been corrected in the current Empower version.

3. Changes with v6.7

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.

4. Official Fix

There may be severe errors in Adabas that have been corrected after the freeze of Adabas v6.7. Those corrections will be announced in Software AG's support system Empower. They should be applied after installing Adabas v6.7 via Software AG's Update Manager.

5. Compatibility with Earlier Adabas Versions

Adabas v6.7 is fully downwardly compatible with earlier Adabas versions. Earlier Adabas versions are also upwardly compatible with Adabas v6.7, 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

All new features are described in the Release Notes.

7. Problems fixed with this Release

Adabas v6.7 contains all fixes made available with Adabas v6.6 and a series of additional corrections shown below.

ADAOS-5056
Correct ADAMON's handling with regard to ADABCK.

ADAOS-5061
Allow ADADBM CHANGE_FIELDS to set the HF option on a field only if the file is empty and the field to be modified is not a parent field of a superdescriptor.

ADAOS-5075
Read all FCBs needed for FMOVE before restoring data with ADABCK.

ADAOS-5081
Do not replicate transactions to wrong target file on a retry operation after target data base became available again.

ADAOS-5082
Do not freeze nucleus and utilities running
"adadbm dbid=<dbid> remove_rbac".

ADAOS-5092
Exclude ADAFRM from authorization checks if MODE=ADABAS.

ADAOS-5093
Skip authorization check on an ADABCK RESTORE operation if ASSO1 is not present and MODE=ADABAS.

ADAOS-5100
Revise ADARBA control parameters.

ADAOS-5101
Make sure that ADARBA control parameter DROP deletes all referenced assignments.

ADAOS-5103
Avoid crash in ADAOPR displaying static parameters.

ADAOS-5104
Enhance ADADBM's functionality to set/reset BT status of a file.

ADAOS-5109
Allow EAL eventing to be switched on/off by adaopr.

ADAOS-5110
Drop prefetch reading LOB file.
Fix memory leak replicating files.

ADAOS-5128
Regenerate during auto-restart changes made with ADARBA in the previously crashed ADABAS run.

ADAOS-5131

Improve replication performance by introducing an additional thread which deletes replicated transactions.

ADAOS-5132
Resolve dead lock in replication.

ADAOS-5133
Clear fields in FDT describing encoding on a conversion from a previous version.

ADAOS-5134
Use ADAFDU's default name for a LOB file if file is generated by Predict.

ADAOS-5136
Delete LOB file record if field size changes from a large value (> 253) to 253 or below.

ADAOS-5137
Give appropriate error message trying to add a field with CR option but without SY fields.

ADAOS-5138
Let ADABCK compute a better estimate for sort size needed.

ADAOS-5142
Do not reject a PLOG-copy from file system to a raw device.

ADAOS-5149
Correct file access permissions when installing under Windows running a NON-ENGLISH language environment.

ADAOS-5150
Compute in ADAVFY length of group field correctly by skipping length of dropped group fields.

ADAOS-5154
Avoid I/O subsystem error in ADABCK attempting to dump a file deleted while ADABCK was active.

ADAOS-5157
Prevent abort of ADABCK RESTORE operation if online FDT blocks were written before any offline block.

ADAOS-5161
Avoid crash in ADAMUP using the SKIPREC option.

ADAOS-5162
Disallow deletion of records in a LOB file with ADAMUP.

ADAOS-5221
Increase number of digits displayed for block number in ADAPLP.

ADAOS-5223

Avoid nucleus crash while ADABCK is shutting down.

ADAOS-5225
Supply an option to exclude replication PLOG records from being written to the protection log.

ADAOS-5236
Allocate additional buffers to handle PLOG records generated by replication threads.

ADAOS-5245
Remove a memory leak that occurred evaluating the search buffer.

8. Installation Problems on UNIX

There are no known installation problems on UNIX.

9. Installation Problems on Windows

There are no known installation problems on Windows.

10. adalnk Changes

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

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

Linux Intel/AMD

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 Problems

The following issue is known for this release:

ADAOS-5303
All Adabas commands result in a security violation (response code 200/175) when Authorization for Adabas Direct Call Interface feature is enabled without the necessary security definitions.

To disable the Authorization for Adabas Direct Call Interface feature set the environment variable ADARBAC_DCI_OFF in the database configuration file.

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