

# SAP® MaxDB™ Expert Session

SAP® MaxDB™ New Features Version 7.8  
News 2015

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# SAP® MaxDB™ Expert Session

SAP® MaxDB™ New Features Version 7.8

Heike Gursch  
IMS MaxDB/liveCache Development Support  
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## News - General Remarks

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- Some functionality might have been changed or expanded over the years.
  - Recommendations might have changed.
- ➔ For each expert session an update with the most important changes is published.
- Check the additional remarks after having heard or read the expert session.
  - Feedback to the responsible author is welcome if you recognize outdated information within the session.



# Agenda

1. Problems with longer passwords

2. Do not use log partitions

3. Additional new features



## Problems with longer passwords

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- Related to page 12 describing the allowance of long passwords
- Be aware that in different situations diverse problems may occur if long passwords are used.
  
- Check note 2120775 (summary note) for possible problems.
- Note 1761717: Connection test fails in DBA-Cockpit, DB59 or LC10 because of a problem with long passwords of the client software
- Note 1882932: Long passwords are destroyed during software update in dedicated versions and have to be reset
- Additionally the summary note provides solutions how passwords can be reset in different environments.

## Do not use Log Partitions

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- Related to page 9 (and following) of the original expert session.
- The recommendations concerning the use of log partitions have changed!
- Because of the occurrence of some severe errors SAP does not recommend to use log partitions!
- The errors could not be pinpointed so far as they turned out to be conceptual deficiencies.

- Potential problems:

Endlessly running log backup: log backup cannot be created as the kernel does not seem to find the correct starting point; see also

<http://maxdb.sap.com/webpts?wptsdetail=yes&ErrorType=0&ErrorID=1252365>

Recovery problem: unspecific problem that the log backup could not be restored

## Log Partitions

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### What to do when you already defined log partitions?

- Use the description of the following HowTo document how to reset the configuration to only one partition:

<http://wiki.scn.sap.com/wiki/display/MaxDB/HowTo+-+Usage+of+Multiple+Log+Partitions>

Section: Reverting to one single log partition

- Do not use the Database Studio to reset log partitions as there is a known and unsolved problem. The next restart following reconfiguration actions will fail.

<http://maxdb.sap.com/webpts?wptsdetail=yes&ErrorType=0&ErrorID=1252241>

## Additional new features (I)

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- Be aware that this expert session about „new“ features in 7.8 has been created in April 2010.
- 7.8 is a still vivid release which is in maintenance.
- Not only error corrections have been done but also functionality originally designed for the next major version 7.9 was included afterwards.
  
- Check Note 1364181 „Feature List 7.8“ for additional changes!



## Additional new features (II)

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- **Repair database software permissions:**

You can use SDBVERIFY to reset access mask and owner/group to its installation default:

*sdbverify -repair\_permissions*

- **Move database to another installation:**

The tool DBMRELOCATE allows to move databases between installations and/or data paths.

- **Additional prefetching mechanisms:**

- Improved LOB reading and table scan performance by using Read Ahead
- Better DROP performance

- **Faster CREATE INDEX:**

Improved index creation time, because temporary result sets are now read asynchronously via prefetching plus clustered read is supported, if needed pages are located in the same volume area

- **Check index functionality implemented:**

New DBM command: *check index <index\_name> on <table\_name>*

## Additional new features (III)

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- **DBM Server: Handling of parameter changes improved:**  
If a database parameter is usermodified (userdefined) a newly entered value that violates the parameter constraint implicitly drops the usermodified/userdefined flag; additional column in ACTIVECONFIGURATION to show the status
- Update of file directory counters improved for LOB tables;  
new option `CHECK TABLE <tab> UPDATE COUNTERS` introduced
- **Reduced disk I/O:**  
In case of `DeleteLeafsWithoutRead = YES` dropping files doesn't read the leaf pages any more.
- **Enhanced Update Statistics:**  
New database parameter `UpdateStatServerTasksPerTable` introduced to configure how many server tasks should be used for SQL optimizer statistics calculation on one table in parallel.
- **Faster restart of big databases**



# Thank you

Contact information:

Heike Gursch  
IMS MaxDB / liveCache  
[Heike.Gursch@sap.com](mailto:Heike.Gursch@sap.com)

Christiane Hienger  
IMS MaxDB / liveCache  
[Christiane.Hienger@sap.com](mailto:Christiane.Hienger@sap.com)

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