TYPO3 Core - Feature #18557

Integrate locking by database in t3lib_lock

2008-04-03 18:03 - Oliver Hader

Status:	Rejected		**Start date:**	2008-04-03
Priority:	Should have		**Due date:**	
Assignee:	Benni Mack		**% Done:**	0%
Category:	Locking / Session Handling		**Estimated time:**	0.00 hour
Target version:				
PHP Version:	5.2		**Complexity:**	
Tags:			**Sprint Focus:**	

Description

In environments with more than one webserver, locking on using the filesystem might not be a good idea since synchronisation of those information is too slow. A possibility is to use the database storage for locking.
This issue is not about database transactions but more about storing a locking semaphore in the database.

A new locking mode besides simple, flock, semaphore and disable shall be integrated: database

(issue imported from #M8010)

Related issues:

Related to TYPO3 Core - Bug #24342: t3lib_lock still sometimes has a race con...	**Closed**	**2010-12-15**

History

#1 - 2008-04-03 18:05 - Steffen Kamper

+1
this can also be useful if someone edit a record, it can be locked for other users.

#2 - 2008-04-03 18:07 - Oliver Hader

I attached an intial version (experimental and not much tested).
Since the patch extends the TYPO3_DB object, also DBAL should be envolved in using these locks. A "typo3_dbLock" package for Oracle is attached (thanks a lot to "Sigi").

#3 - 2008-04-03 19:37 - Oliver Hader

MySQL's GET_LOCK() is a no-go. The following "locking" in one process will release the first lock:
SELECT GET_LOCK('lock1', 10);
SELECT GET_LOOK('lock2', 20); --> releases 'lock1'

#4 - 2008-04-21 14:45 - Oliver Hader

The new patch creates a sys_lock table which holds these locks.
When the database hammers/polls if a lock is active, the information will come from the database cache until the lock is released or changed.

I see no other possibility to implement such a lock for a concurrent scenario.

#5 - 2010-09-23 09:32 - Ernesto Baschny

Sounds great, Olly. Any way to test or use this kind of locking?

Currently I only see the page generation using t3lib_lock in the core. It's type can be set using ['SYS']['lockingMode'], which defaults to 'simple'.

Maybe we can introduce the new DB based locking to the core and test it using that lock? And later on we can make use of it for other situations.

#6 - 2010-12-16 14:32 - Björn Pedersen

related to: http://bugs.typo3.org/view.php?id=16749

#7 - 2011-07-14 13:56 - Xavier Perseguers

- Category deleted (Communication)

- Status changed from Accepted to New

- Assignee deleted (Oliver Hader)

- Target version changed from 4.6.0 to 4.6.0-beta1

#8 - 2011-08-02 18:05 - Xavier Perseguers

- Target version deleted (4.6.0-beta1)

#9 - 2011-11-02 17:49 - Christian Kuhn

I'm unsure if we really need an own table for this. Probably the registry could be used for this, too.

#10 - 2011-11-02 18:47 - Ingo Renner

I agree, this is a perfect job for the registry...

#11 - 2011-12-05 19:23 - Helmut Hummel

- Assignee set to Helmut Hummel

I take care of this

#12 - 2015-01-07 17:13 - Mathias Schreiber

- Status changed from New to Needs Feedback

Still taking care? ;-)

#13 - 2015-01-07 17:18 - Helmut Hummel

- Status changed from Needs Feedback to Rejected

- Assignee deleted (Helmut Hummel)

nope

#14 - 2019-04-17 11:07 - Susanne Moog

- Category set to Locking / Session Handling

- Status changed from Rejected to New

The feature would still be nice (now on the new locking strategy framework) to provide cluster compatible locking ootb.

#15 - 2019-04-17 11:10 - Benni Mack

- Status changed from New to Accepted

- Assignee set to Benni Mack

Will take care of this

#16 - 2020-03-20 18:02 - Benni Mack

- Status changed from Accepted to Rejected

We now have an API in place (since TYPO3 v10) to build this properly - otherwise I recommend using "distributed locks" (see
https://github.com/b13/distributed-locks)

Files

oracle__typo3_dbLock.zip	933 Bytes	2008-04-03		Administrator Admin
0008010.patch	4.71 KB	2008-04-03		Administrator Admin
0008010_v2.patch	2.9 KB	2008-04-21		Administrator Admin
0008010_v3.patch	4.12 KB	2010-07-21		Administrator Admin