

## TYPO3 Core - Task #50349

### Reduce SQL queries of page tree in workspaces

2013-07-24 08:27 - Oliver Hader

<b>Status:</b>	Closed	<b>Start date:</b>	2013-07-24
<b>Priority:</b>	Should have	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	Performance	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	7.4 (Backend)	<b>Complexity:</b>	
<b>TYPO3 Version:</b>	6.2	<b>Sprint Focus:</b>	
<b>PHP Version:</b>	5.3		
<b>Tags:</b>			

#### Description

Nodes of the page tree are highlighted, if that particular node has versioned elements in the current workspace. However, this is determined by iterating over all tables and all records for each page. If having installed many extensions with many tables any many records, this will produce a lot of SQL queries.

The process of "does have versions" can be stopped once the first version for a page/node has been found.

#### Related issues:

Related to TYPO3 Core - Bug #61184: Backend - Page Tree in Workspace & Publis...	<b>Closed</b>	<b>2014-08-26</b>
Related to TYPO3 Core - Bug #66231: Workspace very slow loading page tree	<b>Closed</b>	<b>2015-04-02</b>
Related to TYPO3 Core - Task #69439: Enhance SQL query reduction in page tree...	<b>Closed</b>	<b>2015-08-31</b>

#### Associated revisions

##### Revision 37cd2d50 - 2015-07-16 12:02 - Nicole Cordes

[TASK] Reduce SQL queries of page tree in workspaces

Nodes of the page tree are highlighted, if that particular node has versioned elements in the current workspace. However, this is determined by iterating over all tables and all records for each page. If having installed many extensions with many tables and many records, this will produce a lot of SQL queries.

This patch introduces a new cache for record versions per page which is fetched once from the database. This cache is located within the \TYPO3\CMS\Workspaces\Service\WorkspaceService and can be shared between several other classes as this implements a SingletonInterface.

Resolves: #50349

Resolves: #66231

Related: #61184

Releases: master, 6.2

Change-Id: Ibaef07bdab87147c6826af8578870c52803dfe03

Reviewed-on: <http://review.typo3.org/22528>

Reviewed-by: Georg Ringer <[georg.ringer@gmail.com](mailto:georg.ringer@gmail.com)>

Tested-by: Georg Ringer <[georg.ringer@gmail.com](mailto:georg.ringer@gmail.com)>

Reviewed-by: Nicole Cordes <[typo3@cordes.co](mailto:typo3@cordes.co)>

Tested-by: Nicole Cordes <[typo3@cordes.co](mailto:typo3@cordes.co)>

##### Revision d2c4bbbb - 2015-07-16 12:21 - Nicole Cordes

[TASK] Reduce SQL queries of page tree in workspaces

Nodes of the page tree are highlighted, if that particular node has versioned elements in the current workspace. However, this is determined by iterating over all tables and all records for each page. If having installed many extensions with many tables and many records, this will produce a lot of SQL queries.

This patch introduces a new cache for record versions per page which is fetched once from the database. This cache is located within the \TYPO3\CMS\Workspaces\Service\WorkspaceService and can be shared between

several other classes as this implements a SingletonInterface.

Resolves: #50349  
Resolves: #66231  
Related: #61184  
Releases: master, 6.2  
Change-Id: Ibaef07bdab87147c6826af8578870c52803dfe03  
Reviewed-on: <http://review.typo3.org/41425>  
Reviewed-by: Nicole Cordes <[typo3@cordes.co](mailto:typo3@cordes.co)>  
Tested-by: Nicole Cordes <[typo3@cordes.co](mailto:typo3@cordes.co)>

#### Revision c45de676 - 2015-07-17 14:02 - Nicole Cordes

[FOLLOWUP][TASK] Reduce SQL queries of page tree in workspaces

The patch adds a check if workspaces is activated before using its class and function.

Releases: 6.2  
Resolves: #50349  
Resolves: #66231  
Related: #61184  
Change-Id: I12bc2d496f2216725ac97a8640bc6c431630cc7a  
Reviewed-on: <http://review.typo3.org/41553>  
Reviewed-by: Daniel Goerz <[ervaude@gmail.com](mailto:ervaude@gmail.com)>  
Reviewed-by: Susanne Moog <[typo3@susannemoog.de](mailto:typo3@susannemoog.de)>  
Tested-by: Susanne Moog <[typo3@susannemoog.de](mailto:typo3@susannemoog.de)>  
Reviewed-by: Nicole Cordes <[typo3@cordes.co](mailto:typo3@cordes.co)>  
Tested-by: Nicole Cordes <[typo3@cordes.co](mailto:typo3@cordes.co)>

#### Revision 319b0aa3 - 2016-04-21 11:55 - Oliver Hader

[TASK] Enhance SQL query reduction in page tree in workspaces

This changeset is a follow-up to the changes for issue #50349 and it partly reverts the changes that have been introduced back then.

The most important changes are:

- Allow early return on first found record in hasPageVersions.  
The previous implementation performed SQL queries on all tables that are defined in the global TCA array. Now the first version occurrence is enough to infer that a page has any versions.
- Integrate hooks to modify the determined results. This way, the meaning of having versions can be further modified by hooks.  
For instance, the default behavior of the TYPO3 core is to create a workspace version record on persisting the same record in the backend - without any actual changes to the data model.

Resolves: #69439  
Releases: master  
Change-Id: I119a79d8fad82b0dc5891861af45ecfdb681820  
Reviewed-on: <https://review.typo3.org/42944>  
Reviewed-by: Andreas Wolf <[andreas.wolf@typo3.org](mailto:andreas.wolf@typo3.org)>  
Reviewed-by: Susanne Moog <[typo3@susannemoog.de](mailto:typo3@susannemoog.de)>  
Tested-by: Susanne Moog <[typo3@susannemoog.de](mailto:typo3@susannemoog.de)>  
Reviewed-by: Benni Mack <[benni@typo3.org](mailto:benni@typo3.org)>  
Tested-by: Benni Mack <[benni@typo3.org](mailto:benni@typo3.org)>

## History

---

### #1 - 2013-07-24 08:37 - Oliver Hader

- *Tracker changed from Bug to Task*

### #2 - 2013-07-24 08:39 - Gerrit Code Review

- *Status changed from New to Under Review*

Patch set 1 for branch **master** has been pushed to the review server.  
It is available at <https://review.typo3.org/22528>

### #3 - 2015-01-24 22:37 - Mathias Schreiber

- Target version set to 7.4 (Backend)

Hey Olly, wanna meet up to dig into ths one?  
The idea itself is the right way.

**#4 - 2015-05-27 13:39 - Alexander Opitz**

In [#66231](#) this patch seems to be used in a 1:1 manner which was tested in [#61184](#) and reported as fine.  
So we should go forward with this for TYPO3 CMS 7 LTS.

**#5 - 2015-05-27 17:29 - Grigori Prokhorov**

Hi Alexander,

what speaks against including just <https://review.typo3.org/#/c/38700/> in the next 6.2.x?

I'm asking since IF the situation occurs which this patch resolves, it actually makes the usage of the workspaces completely impossible.  
The patch from [#66231](#) as a "stand-alone" solution (as compared to <https://review.typo3.org/#/c/22528/>) only affects a very specific part of the core since the affected method is used in exactly those two classes which are included.

Best,  
Grigori

**#6 - 2015-07-07 09:17 - Christian Opitz**

This issue makes the workspace feature nearly unusable. +1 for getting this into 6.2

**#7 - 2015-07-07 13:09 - Gerrit Code Review**

Patch set 2 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/22528>

**#8 - 2015-07-07 13:10 - Gerrit Code Review**

Patch set 3 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/22528>

**#9 - 2015-07-07 15:03 - Gerrit Code Review**

Patch set 4 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/22528>

**#10 - 2015-07-15 21:28 - Gerrit Code Review**

Patch set 5 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/22528>

**#11 - 2015-07-15 23:24 - Gerrit Code Review**

Patch set 6 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/22528>

**#12 - 2015-07-16 12:06 - Nicole Cordes**

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [37cd2d5084d48e77e17e8fb14ecbb5e55c7946c7](#).

**#13 - 2015-07-16 12:15 - Gerrit Code Review**

- Status changed from Resolved to Under Review

Patch set 1 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/41425>

**#14 - 2015-07-16 12:20 - Gerrit Code Review**

Patch set 2 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/41425>

**#15 - 2015-07-16 12:30 - Nicole Cordes**

- Status changed from Under Review to Resolved

Applied in changeset [d2c4bbbb34ffe31ad2007573158819b3ce4aee65](#).

**#16 - 2015-07-17 11:58 - Gerrit Code Review**

- Status changed from Resolved to Under Review

Patch set 1 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/41553>

**#17 - 2015-07-17 14:13 - Nicole Cordes**

- Status changed from Under Review to Resolved

Applied in changeset [c45de676a41672f4780875e05fd389cbb66a8a96](#).

**#18 - 2015-08-12 15:39 - Gerrit Code Review**

- Status changed from Resolved to Under Review

Patch set 1 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/42541>

**#19 - 2015-08-31 17:17 - Oliver Hader**

- Status changed from Under Review to Closed

Follow-up [#69439](#)

**#20 - 2015-08-31 17:17 - Oliver Hader**

- Status changed from Closed to Resolved

**#21 - 2017-10-19 21:37 - Riccardo De Contardi**

- Status changed from Resolved to Closed