

## Core - Task # 51094

Epic # 55070 (Accepted): Workpackages

Epic # 54260 (Accepted): WP: FAL Missing Issues / Features / API

Story # 54266 (New): As an User I want FAL to be performant

<b>Status:</b>	Resolved	<b>Priority:</b>	Should have
<b>Author:</b>	Tobias Klepp	<b>Category:</b>	File Abstraction Layer (FAL)
<b>Created:</b>	2013-08-15	<b>Assigned To:</b>	
<b>Updated:</b>	2015-01-30	<b>Due date:</b>	
<b>TYPO3 Version:</b>	6.0		
<b>PHP Version:</b>	5.3		
<b>Complexity:</b>	medium		
<b>Sprint Focus:</b>			
<b>Subject:</b>	SQL-Optimize the FAL		
<b>Description</b>	<p>In the process of entering a lot of data in the TYPO3 6.1 backend, I have some really big FAL performance problems.</p> <p>I programmed an extension, that shows a list of 10 records per page. Every record has an image that is connected as a reference. This simple SQL takes over 35 seconds, because the SQL optimizer can't use an index for the two important fields "tablenames" and "fieldname" in the sys_file_reference table. If I have a lot of images in the system (over 5000), it takes a lot of time and makes the website unuseable. I created a new index on the sys_file_reference table with the following statement:</p> <pre>CREATE INDEX tablenames_fieldname_uids ON sys_file_reference (tablenames(50),fieldname(50),uid_foreign,uid_local);</pre> <p>This key improves the SELECT statement very much. The same simple SQL takes less than 1 second.</p> <p>I think, the key length can be optimized. A better index would be a unique index, but it is possible to reference the same file more than once in an mn relation file field. I have no idea, if this functionality is needed. For me, it makes no sense to reference the same file in the same field more than once.</p>		
<b>Subtasks:</b>			
Task # 54730: sys_file_processedfile.checksum shorten DB field			<b>Resolved</b>
Task # 54726: sys_file_reference.fieldname optimize columns			<b>Resolved</b>
Task # 54725: Add Indexes to sys_file_reference			<b>Resolved</b>
<b>Related issues:</b>			
related to Core - Bug # 51529: FAL is incredibly slow since all information a...		<b>Resolved</b>	<b>2013-08-29</b>

### History

#### #1 - 2013-08-16 12:59 - Philipp Gampe

- Status changed from New to Accepted
- Target version deleted (next-patchlevel)
- TYPO3 Version changed from 6.1 to 6.0
- Complexity set to medium

FAL guys need to have a look at the queries indexes.

#### #2 - 2013-08-30 10:52 - Bernhard Kraft

Related: #51529

**#3 - 2013-12-07 16:28 - Steffen Ritter**

- Subject changed from *Improve FAL performance* to *Add index to sys\_file\_reference\_table*
- Parent task set to #54266

**#4 - 2013-12-07 17:16 - Steffen Ritter**

- Estimated time set to 0.50
- Remaining (hours) set to 0.5

**#5 - 2014-01-08 10:12 - Steffen Ritter**

- Subject changed from *Add index to sys\_file\_reference\_table* to *SQL-Optimize the FAL*
- Estimated time set to 0.00

**#6 - 2014-01-08 11:30 - Steffen Ritter**

- Estimated time deleted (0.00)

**#7 - 2015-01-24 15:52 - Mathias Schreiber**

- Status changed from *Accepted* to *Resolved*
- Remaining (hours) deleted (0.0)

fixed