

## TYPO3 Core - Bug #89169

### Redirects indey key too long after source path increase

2019-09-13 17:00 - Mathias Brodala

<b>Status:</b>	Closed	<b>Start date:</b>	2019-09-13
<b>Priority:</b>	Should have	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Complexity:</b>	
<b>TYPO3 Version:</b>	9	<b>Is Regression:</b>	Yes
<b>PHP Version:</b>	7.3	<b>Sprint Focus:</b>	
<b>Tags:</b>			

#### Description

Due to [#88336](#) redirect URLs can now be longer. However, this also affects the `index_source` index which includes `source_host` and `source_path` which now easily extends regular index limits:

```
$ typo3cms d:u -vvv
No schema updates were performed for update types:
"field.add", "field.change", "table.add", "table.change"
```

The following errors occurred:

Type	SQL Statement	Message
Change fields	ALTER TABLE `sys_redirect` CHANGE `source_path` `source_path` VARCHAR(2048) DEFAULT '' NOT NULL	Specified key was too long; max key length is 3072 bytes

The collation is `utf_general_ci` for the mentioned fields and table.

After manually dropping the `index_source` index the change can be applied however:

```
$ typo3cms d:u -vvv
The following database schema updates were performed:
+-----+
| Type          | SQL Statements |
+-----+
| Add fields    | CREATE INDEX `index_source` ON `sys_redirect` |
|              | (source_host(80), source_path(80)) |
| Change fields | ALTER TABLE `sys_redirect` CHANGE `source_path` |
|              | `source_path` VARCHAR(2048) DEFAULT '' NOT NULL |
+-----+
```

#### Related issues:

Related to TYPO3 Core - Bug #88336: redirects: longer URL strings are stripe...	<b>Closed</b>	<b>2019-05-12</b>
Related to TYPO3 Core - Bug #82080: Indexes too large for some tables with ut...	<b>Closed</b>	<b>2017-08-11</b>
Has duplicate TYPO3 Core - Bug #89063: Index too large for sys_redirect	<b>Closed</b>	<b>2019-09-02</b>

#### Associated revisions

##### Revision `ac4e3bfa` - 2019-10-23 16:31 - Manuel Selbach

[BUGFIX] Respect changed indexes within schema migration

With this change all indexes identified as "changed" will get proper SQL statements to update them (e.g. DROP and ADD afterwards).

The order has also been changed to apply the index changes first, to avoid issues on changing a field on a table, see [#89169](#).

Releases: master, 9.5  
Resolves: #88176  
Related: #89169  
Related: #89063  
Change-Id: Ia683ff1a6ccea47cc9b3848f2db0b9f32b984626  
Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+61476>  
Tested-by: TYPO3com <[noreply@typo3.com](mailto:noreply@typo3.com)>  
Tested-by: Daniel Goerz <[daniel.goerz@posteo.de](mailto:daniel.goerz@posteo.de)>  
Tested-by: Alexander Schnitzler <[review.typo3.org@alexanderschnitzler.de](mailto:review.typo3.org@alexanderschnitzler.de)>  
Tested-by: Manuel Selbach <[manuel\\_selbach@yahoo.de](mailto:manuel_selbach@yahoo.de)>  
Reviewed-by: Daniel Goerz <[daniel.goerz@posteo.de](mailto:daniel.goerz@posteo.de)>  
Reviewed-by: Guido Schmechel <[guido.schmechel@brandung.de](mailto:guido.schmechel@brandung.de)>  
Reviewed-by: Markus Klein <[markus.klein@typo3.org](mailto:markus.klein@typo3.org)>  
Reviewed-by: Alexander Schnitzler <[review.typo3.org@alexanderschnitzler.de](mailto:review.typo3.org@alexanderschnitzler.de)>  
Reviewed-by: Manuel Selbach <[manuel\\_selbach@yahoo.de](mailto:manuel_selbach@yahoo.de)>

#### Revision 4e9c9ac3 - 2019-10-23 16:49 - Manuel Selbach

[BUGFIX] Respect changed indexes within schema migration

With this change all indexes identified as "changed" will get proper SQL statements to update them (e.g. DROP and ADD afterwards).

The order has also been changed to apply the index changes first, to avoid issues on changing a field on a table, see #89169.

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Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+62063>  
Tested-by: TYPO3com <[noreply@typo3.com](mailto:noreply@typo3.com)>  
Tested-by: Manuel Selbach <[manuel\\_selbach@yahoo.de](mailto:manuel_selbach@yahoo.de)>  
Reviewed-by: Manuel Selbach <[manuel\\_selbach@yahoo.de](mailto:manuel_selbach@yahoo.de)>

## History

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### #1 - 2019-09-13 17:00 - Mathias Brodala

- Related to Bug #88336: redirects: longer URL strings are stripped in source\_path added

### #2 - 2019-09-13 17:00 - Mathias Brodala

- Related to Bug #82080: Indexes too large for some tables with utf8mb4 added

### #3 - 2019-09-13 17:02 - Mathias Brodala

- Description updated

Notice that

### #4 - 2019-09-30 15:24 - Michael Kasten

- PHP Version set to 7.3

### Confirmed: with MySQL 5.7.27 on a Linux System (Ubuntu 18:04)

I guess, using an index is an performance issue, but using an long index like this, will not really bring any performance points.

Ok an Url can be 2048 Characters long, and a varchar field can be hold a string with 2048 characters, but the index will reach the Limits with a kollation like utf8\_general\_ci.  
(with the utf8\_general\_ci kollation the string of the column source\_path can be max 768 Chars long before the index will reach the limit)

But the RFC for URLs say that only ASCII Chars allowed. Maybe is it possible to use the ASCII kollation for this table or is this a bad idea? (I test it for my own but not shure if there are others Problems with the ASCII kollation).

### #5 - 2019-09-30 20:22 - Guido Schmechel

- Related to Bug #89063: Index too large for sys\_redirect added

### #6 - 2019-10-09 09:20 - Frank Naegler

- Has duplicate Bug #89063: Index too large for sys\_redirect added

**#7 - 2019-10-09 09:20 - Frank Naegler**

- Related to deleted (Bug #89063: Index too large for sys\_redirect)

**#8 - 2019-10-09 12:51 - Frank Naegler**

The new index length is restricted: KEY index\_source (source\_host(80),source\_path(80))

It looks like the old index is not dropped, I guess the schema migrator is not able to check this at the moment.

**#9 - 2019-10-23 23:03 - Manuel Selbach**

- Status changed from New to Needs Feedback

This issue occurs, as the "changed index" of a table was never identified and with that the index might be without the limitation, if a setup got updated instead of a fresh database installation.

With the fix provided for <https://forge.typo3.org/issues/88176> "changed indexes" will be identified and provided with SQL to update it in the "Analyze Database Structure" and should also be used for the steps mentioned here.

If the key is limited, the update of the table column should also be no problem.

May I ask you to check this with the current branch of 9.5 and provide some feedback?

**#10 - 2020-03-24 18:44 - Susanne Moog**

- Status changed from Needs Feedback to Closed

No feedback since a couple of months and issue likely fixed (see comments above) - closing now, please report back if there is anything still left to do.