

TYPO3 Core - Bug #94621

starttime/endtime are forced to "today" after saving

2021-07-23 09:20 - Xavier Perseguers

Status:	Closed	Start date:	
Priority:	Must have	Due date:	
Assignee:		% Done:	100%
Category:	DataHandler aka TCEmain	Estimated time:	0.00 hour
Target version:	next-patchlevel	Complexity:	
TYPO3 Version:	10	Is Regression:	Yes
PHP Version:		Sprint Focus:	
Tags:			

Description

Since v10.4.18 we face a regression when using '@range' on a date/time field.

How to reproduce

Take any TCA definition and put some lower constraint on the range of starttime and/or endtime. Here is an example of such a problematic definition (which originates back from many versions of TYPO3):

```
'endtime' => [
    'exclude' => 1,
    'label' => 'LLL:EXT:core/Resources/Private/Language/locallang_general.xlf:LGL.endtime'
],
'config' => [
    'type' => 'input',
    'size' => 13,
    'eval' => 'datetime',
    'checkbox' => 0,
    'default' => 0,
    'range' => [
        'lower' => mktime(0, 0, 0, date('m'), date('d'), date('Y'))
    ],
    'behaviour' => [
        'allowLanguageSynchronization' => true,
    ],
    'renderType' => 'inputDateTime',
],
],
```

Even if that definition not really makes sense anymore since TCA is cached since TYPO3 v9, this was never a problem but is suddenly breaking (typically) custom records:

- Create a (or update an existing) record having those starttime, endtime
- Upon saving the (empty) start/end fields are now populated with the date on midnight (+ GMT/timezone offset) of the day you last cleared the whole cache
- You CANNOT clear that field again

This is highly breaking because typically for the endtime field, this has impact on records you create/edit and can be particularly weird in relation with IRRE where you don't always see that such a visibility restriction has been enforced.

Analysis

Thanks to Benni, it looks like that the culprit commit is

<https://git.typo3.org/Packages/TYPO3.CMS.git/blobdiff/ae55eef595bdd4d0676d3b9d96cfc08a4f327527..adce6dbe8b305c71c447929bc14e5c87b4ad6954:/typo3/sysex/core/Classes/DataHandling/DataHandler.php>

and particularly (for me, by reading) to this part:

```
+ && (
```

```
+         !isset($tcaFieldConf['default'])
+         || floor($res['value']) !== (int)$tcaFieldConf['default']
+         || ceil($res['value']) !== (int)$tcaFieldConf['default']
+     )
```

Indeed, there's the use of ceil() and floor() with a strict comparison with an int-cast of the default value. having "0" as value in the field (if empty), leads to floor() and ceil() to return a **double** which is strictly compared to an int and can logically never be true.

Suggestion

Again, by reading only, not tested so far:

```
+         && (
+             !isset($tcaFieldConf['default'])
+             || (int)floor($res['value']) !== (int)$tcaFieldConf['default']
+             || (int)ceil($res['value']) !== (int)$tcaFieldConf['default']
+         )
```

Related issues:

Related to TYPO3 Core - Task #94658: Raise typo3/cms-styleguide to 11.4.0	Closed	2021-07-28
Related to TYPO3 Core - Bug #94527: Range validation in DataHandler has use...	Closed	2021-07-10
Has duplicate TYPO3 Core - Bug #94603: int-validation in TCA does not accept ...	Closed	2021-07-21
Has duplicate TYPO3 Core - Bug #94676: starttime/endtime is set automatically...	Closed	2021-07-30
Has duplicate TYPO3 Core - Bug #94711: Date input with lower range inserts va...	Closed	2021-08-04
Follows TYPO3 Core - Bug #94103: TCA input range does not work well with eval...	Closed	2021-05-10

Associated revisions

Revision fcf3b07f - 2021-07-28 17:18 - Christian Kuhn

[TASK] Raise typo3/cms-styleguide:~11.4.0

Similar to styleguide's backend TCA data generator, the extension can now generate a demo frontend to render a page tree with menu having examples of the default core content elements and demos for ext:felogin and ext:form.

The generator is accessible through the existing backend styleguide module below the '?' help button in the toolbar.

The FE data will be used for core acceptance tests soon.

The raise also brings a minor TCA change for a pending core regression patch.

```
composer req --dev typo3/cms-styleguide:~11.4.0
composer req --dev typo3/cms-styleguide:~11.4.0 -d typo3/sysext/core --no-update
```

Change-Id: Ie1ef73400cda2b82c6379401341e69ff9e78645e
 Resolves: #94658
 Related: #94621
 Releases: master
 Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+70124>
 Tested-by: core-ci <typo3@b13.com>
 Tested-by: Jochen <rothjochen@gmail.com>
 Tested-by: Nikita Hovratov <nikita.h@live.de>
 Tested-by: Christian Kuhn <lulli@schwarzbu.ch>
 Reviewed-by: Jochen <rothjochen@gmail.com>
 Reviewed-by: Nikita Hovratov <nikita.h@live.de>
 Reviewed-by: Christian Kuhn <lulli@schwarzbu.ch>

Revision 2d04af91 - 2021-07-29 15:26 - Nikita Hovratov

[BUGFIX] Skip range validation if input value and default are both "0"

This patch fixes a regression originally introduced in #94103. The problem there was simply an erroneous strict comparison, which further got completely removed in #94527 due to a misconception.

The mentioned condition is important for date type fields with a lower

range set in TCA. If the user doesn't provide a value for that date field, the range validation should be skipped. Otherwise this empty value would always be interpreted as 0, resulting the validation to change it to the lower range value.

As this is a special case, the condition was extracted and rewritten, to only apply for this exact scenario. Other than that the validation should not be skipped.

An acceptance test and a unit test are added to ensure this behavior can't break anymore.

Resolves: #94621
Related: #94103
Related: #94527
Releases: master, 10.4
Change-Id: I54c1a815077e48064f9f6eeba9584184c5f760d7
Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>
Tested-by: core-ci <typo3@b13.com>
Tested-by: Christian Kuhn <loli@schwarzbu.ch>
Tested-by: Benni Mack <benni@typo3.org>
Reviewed-by: Christian Kuhn <loli@schwarzbu.ch>
Reviewed-by: Benni Mack <benni@typo3.org>

Revision bd167fcf - 2021-07-29 19:03 - Nikita Hovratov

[BUGFIX] Skip range validation if input value and default are both "0"

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The mentioned condition is important for date type fields with a lower range set in TCA. If the user doesn't provide a value for that date field, the range validation should be skipped. Otherwise this empty value would always be interpreted as 0, resulting the validation to change it to the lower range value.

As this is a special case, the condition was extracted and rewritten, to only apply for this exact scenario. Other than that the validation should not be skipped.

A unit test is added to ensure this behavior can't break anymore.

Resolves: #94621
Related: #94103
Related: #94527
Releases: master, 10.4
Change-Id: I54c1a815077e48064f9f6eeba9584184c5f760d7
Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+70135>
Tested-by: core-ci <typo3@b13.com>
Tested-by: Nikita Hovratov <nikita.h@live.de>
Tested-by: Christian Kuhn <loli@schwarzbu.ch>
Reviewed-by: Nikita Hovratov <nikita.h@live.de>
Reviewed-by: Christian Kuhn <loli@schwarzbu.ch>

Revision 36ca57b7 - 2021-08-09 17:33 - Christian Kuhn

[TASK] Raise typo3/cms-styleguide:~11.4.0

Similar to styleguide's backend TCA data generator, the extension can now generate a demo frontend to render a page tree with menu having examples of the default core content elements and demos for ext:felugin and ext:form.

The generator is accessible through the existing backend styleguide module below the '?' help button in the toolbar.

The FE data will be used for core acceptance tests soon.

The raise also brings a minor TCA change for a pending core regression patch.

composer req --dev typo3/cms-styleguide:~11.4.0

composer req --dev typo3/cms-styleguide:~11.4.0 -d typo3/sysex/core --no-update

Change-Id: Ie1ef73400cda2b82c6379401341e69ff9e78645e
Resolves: #94658
Related: #94621
Releases: master, 11.3
Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+70314>
Tested-by: core-ci <typo3@b13.com>
Tested-by: Oliver Hader <oliver.hader@typo3.org>
Reviewed-by: Oliver Hader <oliver.hader@typo3.org>

Revision 3c2e213a - 2021-08-09 17:38 - Nikita Hovratov

[BUGFIX] Skip range validation if input value and default are both "0"

This patch fixes a regression originally introduced in #94103. The problem there was simply an erroneous strict comparison, which further got completely removed in #94527 due to a misconception.

The mentioned condition is important for date type fields with a lower range set in TCA. If the user doesn't provide a value for that date field, the range validation should be skipped. Otherwise this empty value would always be interpreted as 0, resulting the validation to change it to the lower range value.

As this is a special case, the condition was extracted and rewritten, to only apply for this exact scenario. Other than that the validation should not be skipped.

An acceptance test and a unit test are added to ensure this behavior can't break anymore.

Resolves: #94621
Related: #94103
Related: #94527
Releases: master, 11.3, 10.4
Change-Id: I54c1a815077e48064f9f6eeba9584184c5f760d7
Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+70232>
Tested-by: core-ci <typo3@b13.com>
Tested-by: Oliver Hader <oliver.hader@typo3.org>
Reviewed-by: Oliver Hader <oliver.hader@typo3.org>

History

#1 - 2021-07-23 09:21 - Xavier Perseguers

- Due date set to 2021-05-11
- Start date changed from 2021-07-23 to 2021-05-11
- Follows Bug #94103: TCA input range does not work well with eval double added

#2 - 2021-07-23 10:29 - Christian Kuhn

- Has duplicate Bug #94603: int-validation in TCA does not accept empty value, when lower-range is defined added

#3 - 2021-07-23 11:11 - Oliver Hader

- Due date deleted (2021-05-11)
- Start date deleted (2021-05-11)

#4 - 2021-07-23 11:11 - Oliver Hader

- Status changed from New to Accepted

#5 - 2021-07-23 14:14 - Nikita Hovratov

- Related to Bug #83240: TCA field with type=input, eval=date with range is broken, always lower range value is applied because of int cast of incoming value before ISO-8601->unix timestamp conversion. added

#6 - 2021-07-23 14:18 - Nikita Hovratov

- Related to deleted (Bug #83240: TCA field with type=input, eval=date with range is broken, always lower range value is applied because of int cast of incoming value before ISO-8601->unix timestamp conversion.)

#7 - 2021-07-23 14:38 - Gerrit Code Review

- Status changed from Accepted to Under Review

Patch set 1 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#8 - 2021-07-23 15:26 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#9 - 2021-07-24 11:09 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#10 - 2021-07-26 13:09 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#11 - 2021-07-28 13:35 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#12 - 2021-07-28 13:59 - 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 <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#13 - 2021-07-28 15:58 - Gerrit Code Review

Patch set 7 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#14 - 2021-07-28 16:32 - Christian Kuhn

- Related to Task #94658: Raise typo3/cms-styleguide to 11.4.0 added

#15 - 2021-07-28 16:33 - Christian Kuhn

- Related to Bug #94527: Range validation in DataHandler has useless if statement part added

#16 - 2021-07-28 17:24 - Gerrit Code Review

Patch set 8 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70060>

#17 - 2021-07-29 15:27 - Gerrit Code Review

Patch set 1 for branch **10.4** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70135>

#18 - 2021-07-29 15:29 - Gerrit Code Review

Patch set 2 for branch **10.4** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70135>

#19 - 2021-07-29 15:30 - Nikita Hovratov

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [2d04af91b925465e0a5a4733b51a7457b2ae4217](https://review.typo3.org/c/Packages/TYPO3.CMS/+70135).

#20 - 2021-07-29 15:53 - Gerrit Code Review

- Status changed from Resolved to Under Review

Patch set 3 for branch **10.4** of project **Packages/TYPO3.CMS** has been pushed to the review server. It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70135>

#21 - 2021-07-29 15:53 - Gerrit Code Review

Patch set 4 for branch **10.4** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70135>

#22 - 2021-07-29 19:10 - Nikita Hovratov

- Status changed from Under Review to Resolved

Applied in changeset [bd167cfa4e557983f788fb4ef65d8ae0dbb843d](#).

#23 - 2021-07-30 15:35 - Guido Schmechel

- Related to Bug #94676: starttime/endtime is set automatically in 10.4.18 in several extensions added

#24 - 2021-07-30 16:21 - Christian Kuhn

- Related to deleted (Bug #94676: starttime/endtime is set automatically in 10.4.18 in several extensions)

#25 - 2021-07-30 16:21 - Christian Kuhn

- Has duplicate Bug #94676: starttime/endtime is set automatically in 10.4.18 in several extensions added

#26 - 2021-08-04 14:08 - Wouter Wolters

- Has duplicate Bug #94711: Date input with lower range inserts value even if no value is set since TYPO3 10.4.18 added

#27 - 2021-08-05 16:24 - Gerrit Code Review

- Status changed from Resolved to Under Review

Patch set 1 for branch **11.3** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70232>

#28 - 2021-08-09 17:02 - Gerrit Code Review

Patch set 2 for branch **11.3** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+70232>

#29 - 2021-08-09 17:40 - Nikita Hovratov

- Status changed from Under Review to Resolved

Applied in changeset [3c2e213a81324ca518545d8fc8db8b2c7ca08e29](#).

#30 - 2021-09-07 07:32 - Benni Mack

- Status changed from Resolved to Closed