

## TYPO3 Core - 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.**

2017-12-06 15:17 - Leonie Philine Bitto

<b>Status:</b>	Closed	<b>Start date:</b>	2017-12-06
<b>Priority:</b>	Must have	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	DataHandler aka TCEmain	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	8.7.11	<b>Complexity:</b>	
<b>TYPO3 Version:</b>	8	<b>Is Regression:</b>	Yes
<b>PHP Version:</b>	7.1	<b>Sprint Focus:</b>	
<b>Tags:</b>			

### Description

Here an example TCA column from tt\_products:

```
'endtime' => [
    'exclude' => 1,
    'label' => 'LLL:EXT:lang/Resources/Private/Language/locallang_general.xlf:LGL.endtime'
],
'config' => [
    'type' => 'input',
    'size' => '8',
    'max' => '20',
    'eval' => 'date',
    'checkbox' => '0',
    'default' => '0',
    'range' => [
        'upper' => mktime(0, 0, 0, 12, 31, 2020),
        'lower' => mktime(0, 0, 0, date('m') - 1, date('d'), date('Y'))
    ]
],
```

This is correct according to the documentation:

<https://docs.typo3.org/typo3cms/TCAReference/ColumnsConfig/Type/Input.html#range>

However, the core handles ranges (as integer) before it converts the date. Therefore, ranges are now broken for eval=date input columns.

This is caused by:

<https://docs.typo3.org/typo3cms/extensions/core/Changelog/8.5/Important-77702-CustomRenderTypesForDateAndDatetimeFieldsMustUseISO-8601.html?highlight=date>

which also caused the distantly related bug <https://forge.typo3.org/issues/82981>

### What happens is the following:

\TYPO3\CMS\Core\DataHandling\DataHandler::checkValueForInput() checks for the TCA range and compares the \$value and \$tcaFieldConf['range']['lower'] / ['upper'] both cast to "(int)".

As the incoming date is in ISO-8601, it will look like "2018-01-01T00:00:00+00:00". Casting it to integer to compare with the upper/lower range, the value becomes simply "2018". At this point, the lower end of the range (\$tcaFieldConf['range']['lower']) is applied to \$value.

**Only afterwards**, \TYPO3\CMS\Core\DataHandling\DataHandler::checkValue\_input\_Eval() is called, which then attempts to convert the ISO-8601 string to a unix timestamp - **but at this point we already lost our original incoming ISO-8601 string, since the lower range value was already applied.**

### Related issues:

Related to TYPO3 Core - Task #77702: Use moment.js and ISO-8601 dates in the ...

Closed

2016-08-30

Related to TYPO3 Core - Bug #82981: FormEngineValidation: range-checks not wo...

Closed

2017-11-13

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## Associated revisions

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### Revision 834f9368 - 2018-03-08 15:08 - Jigal van Hemert

[BUGFIX] Allow range options to work for date/time fields

Date and time fields can contain ISO-8601 values. To apply lower and upper limits the value must first be converted to a UNIX timestamp.

Resolves: #83240  
Releases: master, 8.7  
Change-Id: Ic15e9486cf7a4bcdf557c8a197d957ad88302b61  
Reviewed-on: <https://review.typo3.org/56020>  
Tested-by: TYPO3com <[no-reply@typo3.com](mailto:no-reply@typo3.com)>  
Reviewed-by: Susanne Moog <[susanne.moog@typo3.org](mailto:susanne.moog@typo3.org)>  
Tested-by: Susanne Moog <[susanne.moog@typo3.org](mailto:susanne.moog@typo3.org)>  
Reviewed-by: Jigal van Hemert <[jigal.van.hemert@typo3.org](mailto:jigal.van.hemert@typo3.org)>  
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Reviewed-by: Wouter Wolters <[typo3@wouterwolters.nl](mailto:typo3@wouterwolters.nl)>  
Reviewed-by: Mathias Schreiber <[mathias.schreiber@typo3.com](mailto:mathias.schreiber@typo3.com)>  
Tested-by: Mathias Schreiber <[mathias.schreiber@typo3.com](mailto:mathias.schreiber@typo3.com)>  
Reviewed-by: Oliver Hader <[oliver.hader@typo3.org](mailto:oliver.hader@typo3.org)>  
Tested-by: Oliver Hader <[oliver.hader@typo3.org](mailto:oliver.hader@typo3.org)>

### Revision 0b9ef9e9 - 2018-03-08 15:20 - Jigal van Hemert

[BUGFIX] Allow range options to work for date/time fields

Date and time fields can contain ISO-8601 values. To apply lower and upper limits the value must first be converted to a UNIX timestamp.

Resolves: #83240  
Releases: master, 8.7  
Change-Id: Ic15e9486cf7a4bcdf557c8a197d957ad88302b61  
Reviewed-on: <https://review.typo3.org/56060>  
Reviewed-by: Oliver Hader <[oliver.hader@typo3.org](mailto:oliver.hader@typo3.org)>  
Tested-by: Oliver Hader <[oliver.hader@typo3.org](mailto:oliver.hader@typo3.org)>  
Tested-by: TYPO3com <[no-reply@typo3.com](mailto:no-reply@typo3.com)>  
Reviewed-by: Susanne Moog <[susanne.moog@typo3.org](mailto:susanne.moog@typo3.org)>  
Tested-by: Susanne Moog <[susanne.moog@typo3.org](mailto:susanne.moog@typo3.org)>

## History

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### #1 - 2018-01-23 20:35 - Oliver Hader

- Subject changed from *Regression: 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.* to *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.*

- Is Regression set to Yes

### #2 - 2018-01-23 20:37 - Oliver Hader

- Related to Task #77702: Use moment.js and ISO-8601 dates in the backend added

### #3 - 2018-01-23 20:38 - Oliver Hader

- Status changed from New to Accepted

### #4 - 2018-03-05 11:28 - Oliver Hader

- Target version changed from next-patchlevel to 8.7.11

### #5 - 2018-03-06 11:22 - 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/56020>

### #6 - 2018-03-06 18:06 - 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/56020>

**#7 - 2018-03-06 18:08 - 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/56020>

**#8 - 2018-03-06 18:58 - 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/56020>

**#9 - 2018-03-06 21:27 - 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/56020>

**#10 - 2018-03-08 09:00 - 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/56020>

**#11 - 2018-03-08 15:09 - Gerrit Code Review**

Patch set 1 for branch **TYPO3\_8-7** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/56060>

**#12 - 2018-03-08 15:30 - Jigal van Hemert**

- Status changed from *Under Review* to *Resolved*  
- % Done changed from 0 to 100

Applied in changeset [834f936808659053650574a51a398b6efb0c0e18](#).

**#13 - 2018-03-12 11:47 - Oliver Hader**

- Related to Bug #82981: *FormEngineValidation: range-checks not working for datetime-fields added*

**#14 - 2018-10-02 10:55 - Benni Mack**

- Status changed from *Resolved* to *Closed*

**#15 - 2021-07-23 14:14 - Nikita Hovratov**

- Related to Bug #94621: *starttime/endtime are forced to "today" after saving added*

**#16 - 2021-07-23 14:18 - Nikita Hovratov**

- Related to *deleted* (Bug #94621: *starttime/endtime are forced to "today" after saving*)