

## TYPO3.Flow - Bug #35136

### Problem with validating simple types

2012-03-22 12:19 - Rens Admiraal

<b>Status:</b>	Resolved	<b>Start date:</b>	2012-03-22
<b>Priority:</b>	Should have	<b>Due date:</b>	
<b>Assignee:</b>	Bastian Waidelich	<b>% Done:</b>	100%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Complexity:</b>	
<b>PHP Version:</b>			
<b>Has patch:</b>	No		

#### Description

When an argument of a controller action is annotated with `@param integer $var`, the validation never fails if a string is passed to the argument.

This is because the `TypeConverter` returns `(integer) $value`, which will always match on the `Validator`. This could for example be solved with something like this in the `TypeCoverter`:

```
if (!is_numeric($source)) {
    throw new \TYPO3\FLOW3\Exception('Can\'t convert source value to integer', 1332411849)
};
```

Problem with this approach is the output: an unfriendly error.

Maybe it would be possible to do a quick validation on simple types before the actual `TypeConverter` starts doing his job?

#### Associated revisions

##### Revision a9156475 - 2012-05-29 16:04 - Bastian Waidelich

[!!!][BUGFIX] Float and Integer converters do not correctly handle errors and empty values

When an argument of a controller action is annotated with `@param integer $var`, the validation never fails if a string is passed to the argument.

This is because the `IntegerConverter` implicitly casts the string to an integer. The same problem exists with floats.

This change fixes this by checking the value and returning an error object if it is not numeric. Besides this tweaks the `FloatConverter` to accept float and integer values as input and it adds a bunch of unit & functional tests.

Furthermore, empty strings are now correctly converted as `NULL` values.

This is a breaking change if you relied upon the old behavior that empty values are converted to the number 0.

Change-Id: I178f616d0dd4acea90938384fb21600dd0f7c252

Fixes: #35136

Releases: 1.1, 1.2

##### Revision 5badcdb0 - 2012-05-30 09:59 - Sebastian Kurfuerst

[Bugfix] Property mapper should distinguish between error and `NULL`

currently, when a nested type converter returns `NULL`, this is silently caught by the property mapper. Thus, it is not possible to reset f.e. an integer value to `NULL` again.

This change fixes that behavior, and adds a functional test for it.

Related: #35136

Releases: 1.1, 1.2

Change-Id: Ibc51f4066d09d084e02a67696cb3d6bff98a6451

#### Revision 996f20ce - 2012-05-30 10:37 - Bastian Waidelich

[!!!][BUGFIX] Float and Integer converters do not correctly handle errors and empty values

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This is because the `IntegerConverter` implicitly casts the string to an integer. The same problem exists with floats.

This change fixes this by checking the value and returning an error object if it is not numeric. Besides this tweaks the `FloatConverter` to accept float and integer values as input and it adds a bunch of unit & functional tests.

Furthermore, empty strings are now correctly converted as NULL values. This is a breaking change if you relied upon the old behavior that empty values are converted to the number 0.

Change-Id: I178f616d0dd4acea90938384fb21600dd0f7c252

Fixes: #35136

Releases: 1.1, 1.2

#### Revision ca4ef91c - 2012-06-20 10:41 - Sebastian Kurfuerst

[BUGFIX] Property mapper should distinguish between error and NULL

Currently, when a nested type converter returns NULL, this is silently caught by the property mapper. Thus, it is not possible to reset e.g. an integer value to NULL again.

This change fixes that behavior, and adds a functional test for it.

Change-Id: Ibc51f4066d09d084e02a67696cb3d6bff98a6451

Related: #35136

Releases: 1.1, 1.2

## History

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### #1 - 2012-03-25 11:33 - Christian Müller

I see what you mean but I think the Converter should just do it's job and don't validate anything, so throwing an exception is out of question for me. Also this problem about first mapping then validating or the other way around would probably need to be decided on a case by case basis (objects clearly first need mapping) and then custom validators and mappers are really complex to configure as you would need to define the mapping/validation order too.

I think the current approach is fine for most cases, I would say the validation rule on this argument needs to be tightened to example a number range then it could still throw some validation error.

### #2 - 2012-03-25 12:45 - Rens Admiraal

I'm totally fine with the conversion, that's not something to discuss I think. But validation always has to be done in a meaningful way. If we are converting types based on the `@param` tag AFTER the `TypeConverter` converts the value, then the validation is useless and will cause confusion and errors.

So either we should fix the validation, or we should clearly state the situations in which validation on simple types will not work (or maybe even totally skip validation on the `@param` annotation and require a `@FLOW3\Validation` rule...)

### #3 - 2012-03-26 17:14 - Sebastian Kurfuerst

you are not allowed to throw an exception inside the type converter in case of a user error.

Instead, you should return an `\TYPO3\FLOW3\Error\Error` object which is then shown to the user.

However, you at least need to make sure that the empty value is always correctly passed through, else no empty values are allowed.

This change should only go in with a proper functional test.

Greets, Sebastian

### #4 - 2012-03-28 12:28 - Bastian Waidelich

- Project changed from *TYPO3 Flow Base Distribution* to *TYPO3.Flow*

- Status changed from *New* to *Accepted*

### #5 - 2012-03-28 13:01 - Bastian Waidelich

- Has patch set to No

Rens Admiraal wrote:

Hi Rens,

This is because the TypeConverter returns (integer) \$value [...]

That's not what I observe. A string of "foo" is simply passed on to the action instead of being casted to integer (which would result in 0).

**#6 - 2012-03-28 13:05 - Bastian Waidelich**

Bastian Waidelich wrote:

That's not what I observe.

Not true, forget my comment. Caching issue **doh** ;)

**#7 - 2012-03-28 19:59 - Gerrit Code Review**

- Status changed from Accepted to Under Review

Patch set 1 for branch **master** has been pushed to the review server.  
It is available at <http://review.typo3.org/10071>

**#8 - 2012-04-19 11:04 - Gerrit Code Review**

Patch set 2 for branch **master** has been pushed to the review server.  
It is available at <http://review.typo3.org/10071>

**#9 - 2012-04-19 11:25 - Gerrit Code Review**

Patch set 3 for branch **master** has been pushed to the review server.  
It is available at <http://review.typo3.org/10071>

**#10 - 2012-05-29 14:28 - Gerrit Code Review**

Patch set 4 for branch **master** has been pushed to the review server.  
It is available at <http://review.typo3.org/10071>

**#11 - 2012-05-29 16:04 - Gerrit Code Review**

Patch set 5 for branch **master** has been pushed to the review server.  
It is available at <http://review.typo3.org/10071>

**#12 - 2012-05-30 10:37 - Bastian Waidelich**

- Status changed from Under Review to Resolved

- % Done changed from 0 to 100

Applied in changeset [a915647549a52621d1b23b7787f0bd2e03a91261](#).

**#13 - 2012-05-30 10:37 - Gerrit Code Review**

- Status changed from Resolved to Under Review

Patch set 1 for branch **FLOW3-1.1** has been pushed to the review server.  
It is available at <http://review.typo3.org/11719>

**#14 - 2012-05-30 12:38 - Bastian Waidelich**

- Status changed from Under Review to Resolved

Applied in changeset [996f20ce3a61fd4c9f4645d64df44235246b79bf](#).