

## TYPO3 Core - Bug #66482

### Extbase persistence layer fails to create empty objects in PHP 5.6.

2015-04-20 00:15 - Klaus Bitto

<b>Status:</b>	Closed	<b>Start date:</b>	2015-04-19
<b>Priority:</b>	Must have	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	0%
<b>Category:</b>	Extbase	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	6.2.16	<b>Complexity:</b>	easy
<b>TYPO3 Version:</b>	6.2	<b>Is Regression:</b>	No
<b>PHP Version:</b>	5.6	<b>Sprint Focus:</b>	Stabilization Sprint
<b>Tags:</b>			

#### Description

The extbase persistence layer (actually the object container) creates empty objects, by-passing the constructor, by unserializing a faked serialized empty object.

This no longer works in PHP 5.6. The unserialize() call fails fatally ("Erroneous data format").

<http://php.net/manual/en/function.unserialize.php>:

#### Changelog

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Version      Description

5.6.0          \*Manipulating the serialised data by replacing C: with O: to force object instantiation without calling the constructor will now fail.\*

Instead of unserialize(), public object ReflectionClass::newInstanceWithoutConstructor ( void ) must be used:

<http://php.net/manual/de/reflectionclass.newinstancewithoutconstructor.php> (PHP >= 5.4)

TYPO3 6.2 was declared to be compatible with PHP <= 5.5, until 2 days ago, when I reported <https://forge.typo3.org/issues/66468>. Now, TYPO3 6.2 is officially declared as compatible to PHP 5.3.7-5.6.x (<http://typo3.org/download/>). Therefore I regard this a high priority issue, as extbase is factually broken on PHP 5.6.

The error occurs in this line:

[https://github.com/TYPO3/TYPO3.CMS/blob/TYPO3\\_6-2/typo3/sysexi/extbase/Classes/Object/Container/Container.php#L121](https://github.com/TYPO3/TYPO3.CMS/blob/TYPO3_6-2/typo3/sysexi/extbase/Classes/Object/Container/Container.php#L121)

PHP 5.3 will still need the unserialize() call. PHP 5.4-5.6 can use ReflectionClass::newInstanceWithoutConstructor().

See also how Doctrine2 fixed the same issue:

<https://github.com/marmotz/doctrine2/commit/93c276d059b40b0783ba9a24549a8b135e257693>

#### Related issues:

Related to TYPO3 Core - Bug #66473: Cannot create object implementing Seriali...	<b>Closed</b>	<b>2015-04-17</b>
Related to TYPO3 Core - Bug #70873: Fix inconsistency of the calling order of...	<b>Rejected</b>	<b>2015-10-20</b>
Related to TYPO3 Core - Feature #70874: ClassInfo::getIsInitializable() is n...	<b>Closed</b>	<b>2015-10-20</b>

#### History

##### #1 - 2015-04-20 00:19 - Klaus Bitto

This is "half a duplicate" of <https://forge.typo3.org/issues/66473>.

Note that Bug [#66473](#) targets TYPO3 7, but mentions "This also needs to be fixed for TYPO3 6.2 though which supports PHP 5.3, in which case checking for the Serializable interface and using C instead of O could work".

Should a separate Bug targeting TYPO3 6.2 be kept?

Could "doctrine/instantiator" be introduced even in a 6.2.x release?

A Doctrine2-style fix like <https://github.com/marmotz/doctrine2/commit/93c276d059b40b0783ba9a24549a8b135e257693> should certainly be possible in the next 6.2 patchlevel.

##### #2 - 2015-06-22 11:42 - Gerrit Code Review

- Status changed from New to Under Review

Patch set 1 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/40522>

**#3 - 2015-07-24 17:03 - Christian Kuhn**

- Description updated

- Target version changed from next-patchlevel to 6.2.15

- Sprint Focus set to Stabilization Sprint

**#4 - 2015-09-08 13:44 - Alexander Opitz**

- Target version changed from 6.2.15 to 6.2.16

**#5 - 2015-10-18 19:36 - Gerrit Code Review**

Patch set 2 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/40522>

**#6 - 2015-10-18 19:39 - Gerrit Code Review**

Patch set 3 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/40522>

**#7 - 2015-10-20 13:12 - Klaus Bitto**

<http://review.typo3.org/40522>

In getInstanceInternal(), first injectDependencies() is called, then initializeObject().

Doing it the other way around in getEmptyObject() would mean introducing a new bug. :) (initializeObject() might use injected objects.)

Also, there might be code depending on the fact that initializeObject is NOT called when reconstituting an object from DB. Therefore, adding initializeObject() here is a breaking change for some, while adding newInstanceWithoutConstructor() (ideally with the Doctrine workaround for final classes etc.) is only a bugfix without negative side effects.

Regarding if(\$classInfo->getIsInitializable() && is\_callable(array(\$object, 'initializeObject')): Shouldn't getIsInitializable() have to be enough? Or in other words: If an is\_callable() check is needed, isn't getIsInitializable() broken? I do see that one works on the class and the other works on the object, but the current solution still seems wrong by design.

**#8 - 2015-10-20 14:59 - Gerrit Code Review**

Patch set 4 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/40522>

**#9 - 2015-10-20 15:21 - Gerrit Code Review**

Patch set 5 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/40522>

**#10 - 2015-10-20 15:31 - Gerrit Code Review**

Patch set 6 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/40522>

**#11 - 2015-10-20 19:15 - Gerrit Code Review**

Patch set 7 for branch **TYPO3\_6-2** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/40522>

**#12 - 2015-10-20 22:47 - Helmut Hummel**

- Status changed from Under Review to Needs Feedback

Isn't this a duplicate of [#66473](#) ? We should close this one or the other, I'd opt to close this one, as the other has more information gathered.

**#13 - 2015-10-20 22:51 - Helmut Hummel**

Klaus B wrote:

See also how Doctrine2 fixed the same issue: <https://github.com/marmotz/doctrine2/commit/93c276d059b40b0783ba9a24549a8b135e257693>

This fix isn't part of doctrine any more. Now the doctrine/instantiator code is used:

<https://github.com/doctrine/doctrine2/blob/master/lib/Doctrine/ORM/Mapping/ClassMetadataInfo.php#L912>

There is imho no way around that!

**#14 - 2015-10-21 14:44 - Klaus Bitto**

Helmut Hummel wrote:

Now the doctrine/instantiator code is used:

<https://github.com/doctrine/doctrine2/blob/master/lib/Doctrine/ORM/Mapping/ClassMetadataInfo.php#L912>

There is imho no way around that!

I guess you are right.

For me, you can close this issue in favour of [#66473](#).

I only find it very important that this makes it into the 6.2 LTS, since you cannot keep people using PHP < 5.6 as long as they run the LTS.

**#15 - 2015-10-27 16:05 - Oliver Hader**

- *Status changed from Needs Feedback to Closed*