

TYPO3 Core - Task #70584

Reduce thrown E_NOTICES

2015-10-11 16:17 - Oliver Eglseder

Status:	Closed	Start date:	2018-03-07
Priority:	Should have	Due date:	
Assignee:		% Done:	0%
Category:	Code Cleanup	Estimated time:	0.00 hour
Target version:	Candidate for Major Version	Complexity:	
TYPO3 Version:	7	Sprint Focus:	On Location Sprint
PHP Version:			
Tags:			

Description

Every time PHP tries to access an index of an array, which is not set, or a variable that is not defined PHP generated an E_NOTICE and uses NULL as resulting value.

This is bad because of three major reasons:

1. Bugs resulting from an invalid evaluation of the value are very hard to find.
2. You can not trust the type of the variable so you have to check it anywhere you use it.
3. Not checking keys is considered bad code.

And a lot of other (major and minor) reasons to check the key/variable before accessing it, including tiny performance improvements as a positive side effect.

Mission:

Always check if the variable/key exists before accessing it.

If the value is not existent use the expected default value (e.g.: empty string, zero, null..)

How to work on this:

Edit UnitTests.xml in core/Build and set convertNoticesToExceptions="true" and stopOnFailure="true" as <phpunit> tag attributes. Go to \TYPO3\CMS\Core\SystemEnvironmentBuilder::initializeBasicErrorReporting and set error_reporting(E_ALL) Run all unit tests. PHPUnit will halt on the first error.

Create a child issue on this ticket that combines some changes into logic units.

There shouldn't be more than 20 changes per patch to keep them simple and increase velocity. Smaller patches are getting approved and merged faster.

Related issues:

Related to TYPO3 Core - Task #70587: Remove the first few E_NOTICES occurring ...	Closed	2015-10-11
Related to TYPO3 Core - Task #70590: Remove all notices thrown in BackendUtil...	Closed	2015-10-11
Related to TYPO3 Core - Task #71236: Provide correct dummy data for DatabaseL...	Closed	2015-11-01
Related to TYPO3 Core - Bug #71292: Reduce E_NOTICES by providing correct tes...	Closed	2015-11-03
Related to TYPO3 Core - Bug #84156: avoid E_NOTICE reporting in ArrayUtility	Closed	2018-03-07
Related to TYPO3 Core - Bug #84161: avoid E_NOTICE reporting in ArrayUtility...	Closed	2018-03-07
Related to TYPO3 Core - Epic #84280: Make unit tests notice free	Closed	2018-03-15

Associated revisions

Revision 57055c98 - 2015-11-12 16:31 - Oliver Eglseder

[TASK] Remove the first few E_NOTICES occurring in the unit tests

PHP throws E_NOTICE when not existing array keys are accessed.
The received value will become null.

This patch aims to reduce the number of generated notices,
to increase readability and reliability of the changed methods.

Resolves: #70587

Related: #70584
Releases: master
Change-Id: I23ee39b0d89f1be828565cbe6c745b6eeefdcfde
Reviewed-on: <https://review.typo3.org/43988>
Reviewed-by: Markus Klein <markus.klein@typo3.org>
Tested-by: Markus Klein <markus.klein@typo3.org>
Reviewed-by: Benni Mack <benni@typo3.org>
Tested-by: Benni Mack <benni@typo3.org>

Revision f78b2b28 - 2015-11-13 21:00 - Oliver Eglseder

[TASK] Provide correct data for DatabaseLanguageRowsTest

The dummy data provided in DatabaseLanguageRowsTest leads to some E_NOTICEs.

This patch aims to provide the minimal correct set of dummy data needed to run the affected tests without any E_NOTICE

Resolves: #71236
Related: #70584
Releases: master
Change-Id: I159f71325bdd26482ac1bdfb8176ff707acbc036
Reviewed-on: <https://review.typo3.org/44470>
Reviewed-by: Wouter Wolters <typo3@wouterwolters.nl>
Tested-by: Wouter Wolters <typo3@wouterwolters.nl>
Reviewed-by: Morton Jonuschat <m.jonuschat@mojocode.de>
Tested-by: Morton Jonuschat <m.jonuschat@mojocode.de>

Revision 4a74f00e - 2018-03-18 13:17 - Pawel Cieslik

[TASK] E_NOTICE reduction

Reduce number of E_NOTICE thrown by TYPO3

Resolves: #70584
Releases: master
Change-Id: I46fb54e51b24af5721efaa9507b32b86f38fc325
Reviewed-on: <https://review.typo3.org/54884>
Reviewed-by: Jan Helke <typo3@helke.de>
Tested-by: Jan Helke <typo3@helke.de>
Tested-by: TYPO3com <no-reply@typo3.com>
Reviewed-by: Christian Kuhn <lolli@schwarzbu.ch>
Tested-by: Christian Kuhn <lolli@schwarzbu.ch>

History

#1 - 2016-03-10 22:04 - Riccardo De Contardi

- Category set to Code Cleanup

#2 - 2017-03-30 23:14 - Riccardo De Contardi

- Target version changed from 8 LTS to Candidate for Major Version

#3 - 2017-11-30 11:54 - Gerrit Code Review

- Status changed from New 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/54884>

#4 - 2017-12-06 14:25 - 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/54884>

#5 - 2017-12-19 17:06 - 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/54884>

#6 - 2018-03-07 11:34 - Riccardo De Contardi

- Related to Bug #84156: avoid E_NOTICE reporting in ArrayUtility added

#7 - 2018-03-07 13:11 - Ralf Zimmermann

- Related to Bug #84161: avoid E_NOTICE reporting in ArrayUtility - reloaded added

#8 - 2018-03-17 22:07 - 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/54884>

#9 - 2018-03-17 22:23 - 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/54884>

#10 - 2018-03-17 22:23 - Łukasz Uznański

- Sprint Focus set to On Location Sprint

#11 - 2018-03-18 12:58 - Christian Kuhn

- Related to Epic #84280: Make unit tests notice free added

#12 - 2018-03-18 13:04 - 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/54884>

#13 - 2018-03-18 13:29 - Jan Helke

- Status changed from Under Review to Resolved

- Assignee deleted (Oliver Eglseder)

All issues connected to this task are either closed or resolved. I will close the ticket and we will handle E_NOTICES further on in <https://forge.typo3.org/issues/84280>

#14 - 2018-10-02 11:29 - Benni Mack

- Status changed from Resolved to Closed