

## Core - Bug # 53862

Epic # 55070 (Accepted): Workpackages

Epic # 55065 (New): WP: Overall System Performance (Backend and Frontend)

Bug # 52949 (Resolved): Speed decrease since 4.5

<b>Status:</b>	Resolved	<b>Priority:</b>	Should have
<b>Author:</b>	Michiel Roos	<b>Category:</b>	Performance
<b>Created:</b>	2013-11-22	<b>Assigned To:</b>	
<b>Updated:</b>	2014-01-09	<b>Due date:</b>	
<b>TYPO3 Version:</b>	6.2		
<b>PHP Version:</b>	5.3		
<b>Complexity:</b>	easy		
<b>Is Regression:</b>	No		
<b>Sprint Focus:</b>			
<b>Subject:</b>	isValidUrl idna converts whole URI instead of domain only		
<b>Description</b>	<p>The expensive idna_convert is called from isValidUrl. Instead of feeding it just the domain part, it converts the whole URI.</p> <p>When feeding it just the domain part, a great speed gain can be had.</p> <p>This patch breaks apart the URI using parse_url(), converts the domain part, then re-assembles the uri using HttpUtility::buildUrl(). Please find profiling runs attached for:</p> <ul style="list-style-type: none"><li>- /typo3/ (login screen)</li><li>- /typo3/backend.php</li><li>- /typo3/mod.php?M=web_list</li></ul>		
<b>Related issues:</b>			
related to Core - Bug # 55475: Error when saving Domain system record		<b>Resolved</b>	<b>2014-01-30</b>
related to Core - Bug # 55713: GeneralUtility' not found		<b>Resolved</b>	<b>2014-02-06</b>

### Associated revisions

#### Revision f8fdcea7 - 2013-12-21 15:50 - Michiel Roos

[BUGFIX] isValidUrl() idna converts whole URI

GeneralUtility::isValidUrl() idna converts whole URI instead of domain only.

The expensive idna\_convert() is called from isValidUrl(). Instead of feeding it just the domain part, the whole URI is converted.

When supplying just the domain part, a great speed gain can be seen.

On seriously malformed URLs, parse\_url() may return FALSE and emits an E\_WARNING. So we check for that first.

PHP no longer supports the flags FILTER\_FLAG\_HOST\_REQUIRED and FILTER\_FLAG\_SCHEME\_REQUIRED. A scheme is now required by default. [1]  
Return FALSE if the URL does not start with a scheme.

A public GeneralUtility::idnaEncode() method uses a static idna\_convert

instance and fetches converted strings from a string cache array to avoid multiple checks on the same domain.

All manual `idna_convert` instances are replaced with `GeneralUtility::idnaEncode()` calls.

Special characters are not allowed in the URL except in the domain part [2]. So the test with special characters in the path was removed from the `GeneralUtilityTest` class.

[1] <http://www.php.net/manual/en/filter.filters.flags.php#107382>

[2] <http://tools.ietf.org/html/rfc3986#appendix-A>

Change-Id: I7a0ab0a399d9d6cf68c824f413be6b6d621947c1

Resolves: #53862

Releases: 6.2, 6.1, 6.0

Reviewed-on: <https://review.typo3.org/25636>

Reviewed-by: Markus Klein

Reviewed-by: Wouter Wolters

Tested-by: Wouter Wolters

Reviewed-by: Michiel Roos

Tested-by: Michiel Roos

Tested-by: Markus Klein

Reviewed-by: Andreas Wolf

Reviewed-by: Jo Hasenau

Reviewed-by: Xavier Perseguers

Tested-by: Xavier Perseguers

#### **Revision c99a07a9 - 2014-01-09 14:48 - Michiel Roos**

[BUGFIX] `isValidUrl()` idna converts whole URI

`GeneralUtility::isValidUrl()` idna converts whole URI instead of domain only.

The expensive `idna_convert()` is called from `isValidUrl()`. Instead of feeding it just the domain part, the whole URI is converted.

When supplying just the domain part, a great speed gain can be seen.

On seriously malformed URLs, `parse_url()` may return `FALSE` and emits an `E_WARNING`. So we check for that first.

PHP no longer supports the flags `FILTER_FLAG_HOST_REQUIRED` and `FILTER_FLAG_SCHEME_REQUIRED`. A scheme is now required by default. [1] Return `FALSE` if the URL does not start with a scheme.

A public `GeneralUtility::idnaEncode()` method uses a static `idna_convert` instance and fetches converted strings from a string cache array to avoid multiple checks on the same domain.

All manual `idna_convert` instances are replaced with

GeneralUtility::idnaEncode() calls.

Special characters are not allowed in the URL except in the domain part [2]. So the test with special characters in the path was removed from the GeneralUtilityTest class.

[1] <http://www.php.net/manual/en/filter.filters.flags.php#107382>

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Change-Id: I7a0ab0a399d9d6cf68c824f413be6b6d621947c1

Resolves: #53862

Releases: 6.2, 6.1, 6.0

Reviewed-on: <https://review.typo3.org/26501>

Reviewed-by: Xavier Perseguers

Tested-by: Xavier Perseguers

Reviewed-by: Markus Klein

Tested-by: Markus Klein

#### **Revision d0c42764 - 2014-01-09 14:58 - Michiel Roos**

[BUGFIX] isValidUrl() idna converts whole URI

GeneralUtility::isValidUrl() idna converts whole URI instead of domain only.

The expensive idna\_convert() is called from isValidUrl(). Instead of feeding it just the domain part, the whole URI is converted.

When supplying just the domain part, a great speed gain can be seen.

On seriously malformed URLs, parse\_url() may return FALSE and emits an E\_WARNING. So we check for that first.

PHP no longer supports the flags FILTER\_FLAG\_HOST\_REQUIRED and FILTER\_FLAG\_SCHEME\_REQUIRED. A scheme is now required by default. [1]  
Return FALSE if the URL does not start with a scheme.

A public GeneralUtility::idnaEncode() method uses a static idna\_convert instance and fetches converted strings from a string cache array to avoid multiple checks on the same domain.

All manual idna\_convert instances are replaced with GeneralUtility::idnaEncode() calls.

Special characters are not allowed in the URL except in the domain part [2]. So the test with special characters in the path was removed from the GeneralUtilityTest class.

[1] <http://www.php.net/manual/en/filter.filters.flags.php#107382>

[2] <http://tools.ietf.org/html/rfc3986#appendix-A>

Change-Id: I7a0ab0a399d9d6cf68c824f413be6b6d621947c1

Resolves: #53862

Releases: 6.2, 6.1, 6.0

Reviewed-on: <https://review.typo3.org/26531>

Reviewed-by: Xavier Perseguers

Tested-by: Xavier Perseguers

Reviewed-by: Markus Klein

Tested-by: Markus Klein

#### **Revision 3dcc61df - 2014-01-30 23:46 - Wouter Wolters**

[BUGFIX] Regression in DataHandler

The fix for issue #53862 calls GeneralUtility::idnaEncode without fully qualified class namespace.

Follow-up to: c99a07a9

Resolves: #55475

Releases: 6.1, 6.0

Change-Id: I8ba161ee73e7456da53d2182b4a22d87dad9d53c

Reviewed-on: <https://review.typo3.org/27173>

Reviewed-by: Steffen Müller

Tested-by: Steffen Müller

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

#### **Revision dc271e4f - 2014-01-30 23:57 - Wouter Wolters**

[BUGFIX] Regression in DataHandler

The fix for issue #53862 calls GeneralUtility::idnaEncode without fully qualified class namespace.

Follow-up to: c99a07a9

Resolves: #55475

Releases: 6.1, 6.0

Change-Id: I8ba161ee73e7456da53d2182b4a22d87dad9d53c

Reviewed-on: <https://review.typo3.org/27174>

Reviewed-by: Christian Kuhn

Tested-by: Christian Kuhn

Reviewed-by: Wouter Wolters

Tested-by: Wouter Wolters

## **History**

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### **#1 - 2013-11-22 12:14 - 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/25636>

**#2 - 2013-11-22 12:21 - 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/25636>

**#3 - 2013-11-22 13:01 - Michiel Roos**

*- File fu\_idna\_4.7.patch added*

**#4 - 2013-11-22 14:57 - 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/25636>

**#5 - 2013-11-22 14:58 - 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/25636>

**#6 - 2013-11-22 15:00 - 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/25636>

**#7 - 2013-11-22 15:39 - 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/25636>

**#8 - 2013-11-22 15:52 - Michiel Roos**

*- File patch\_set\_6\_backend\_php.png added*

**#9 - 2013-11-22 18:26 - 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/25636>

**#10 - 2013-11-22 18:46 - Gerrit Code Review**

Patch set 9 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.

It is available at <https://review.typo3.org/25636>

**#11 - 2013-11-22 23:10 - Gerrit Code Review**

Patch set 10 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#12 - 2013-11-22 23:12 - Gerrit Code Review**

Patch set 11 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#13 - 2013-11-23 00:05 - Gerrit Code Review**

Patch set 12 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#14 - 2013-11-23 00:58 - Gerrit Code Review**

Patch set 13 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#15 - 2013-11-23 01:06 - Michiel Roos**

- *File inValidFiles\_login\_page.txt added*

These files are tested but come back invalid.

We may gain some more speed by finding out who is testing them and why.

**#16 - 2013-11-23 07:53 - Gerrit Code Review**

Patch set 14 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#17 - 2013-11-23 12:10 - Michiel Roos**

- *File Screen\_Shot\_2013-11-23\_at\_12.08.54.png added*

**#18 - 2013-11-23 15:50 - Gerrit Code Review**

Patch set 15 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#19 - 2013-11-23 21:07 - Gerrit Code Review**

Patch set 16 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#20 - 2013-11-25 10:49 - Gerrit Code Review**

Patch set 17 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#21 - 2013-11-26 10:31 - Gerrit Code Review**

Patch set 18 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#22 - 2013-11-26 19:51 - Michiel Roos**

- File *TYPO3\_CMS\_Login\_\_6.2.master.workbench.local\_\_\_Workbench-7.jpg* added

**#23 - 2013-11-26 20:05 - Michiel Roos**

- File *Screen\_Shot\_2013-11-26\_at\_20.03.58.png* added

Basic test against:

/typo3/backend.php from a 'just cleared the cache' state.

**#24 - 2013-11-28 15:17 - Gerrit Code Review**

Patch set 19 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#25 - 2013-11-28 15:26 - Gerrit Code Review**

Patch set 20 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#26 - 2013-11-30 01:37 - Gerrit Code Review**

Patch set 21 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#27 - 2013-11-30 01:53 - Gerrit Code Review**

Patch set 22 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#28 - 2013-12-02 16:01 - Gerrit Code Review**

Patch set 23 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#29 - 2013-12-05 11:35 - Gerrit Code Review**

Patch set 24 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#30 - 2013-12-05 12:28 - Gerrit Code Review**

Patch set 25 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/25636>

**#31 - 2013-12-19 20:13 - Gerrit Code Review**

Patch set 1 for branch **TYPO3\_6-1** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/26501>

**#32 - 2013-12-20 11:26 - Michiel Roos**

- File *Patch\_25\_backendPhp\_unpopulated\_Cache\_dir.png* added
- File *Patch\_25\_dbList\_siteRoot\_populated\_Cache\_dir.jpg* added
- File *Patch\_25\_login\_unpopulated\_Cache\_dir.jpg* added

The numbers for Helmut.

Helmut and others . . .

Please consider verifying the numbers using:

- <https://github.com/Tuurlijk/Typo3Workbench>
- <https://github.com/Tuurlijk/xhprof>

;-)

**#33 - 2013-12-21 15:52 - Gerrit Code Review**

Patch set 1 for branch **TYPO3\_6-0** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <https://review.typo3.org/26531>

**#34 - 2013-12-21 16:30 - Michiel Roos**

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

Applied in changeset commit:f8fdcea7949a5c71f6078f7dda76f08881f56c01.

**#35 - 2014-01-09 16:39 - Markus Klein**

- Parent task set to #52949

**Files**

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backend_php.png	34.2 kB	2013-11-22	Michiel Roos
login_screen.png	34.4 kB	2013-11-22	Michiel Roos
web_list.png	34.7 kB	2013-11-22	Michiel Roos
fu_idna.v3.diff	1 kB	2013-11-22	Michiel Roos



fu_idna_4.7.patch	1.1 kB	2013-11-22	Michiel Roos
patch_set_6_backend_php.png	36.8 kB	2013-11-22	Michiel Roos
inValidFiles_login_page.txt	6.5 kB	2013-11-23	Michiel Roos
Screen_Shot_2013-11-23_at_12.08.54.png	38.9 kB	2013-11-23	Michiel Roos
TYPO3_CMS_Login__6.2.master.workbench.local___Workbench-7.jpg	38.9 kB	2013-11-26	Michiel Roos
Screen_Shot_2013-11-26_at_20.03.58.png	101.9 kB	2013-11-26	Michiel Roos
Patch_25_backendPhp_unpopulated_Cache_dir.png	35.4 kB	2013-12-20	Michiel Roos
Patch_25_dbList_siteRoot_populated_Cache_dir.jpg	45.4 kB	2013-12-20	Michiel Roos
Patch_25_login_unpopulated_Cache_dir.jpg	43.6 kB	2013-12-20	Michiel Roos