

## TYPO3 Core - Bug #67061

### Upload of files with "Umlaute" is not possible for non-admins when utf8 filesystem is enabled

2015-05-20 16:09 - Nils Blattner

<b>Status:</b>	Closed	<b>Start date:</b>	2015-05-20
<b>Priority:</b>	Must have	<b>Due date:</b>	
<b>Assignee:</b>		<b>% Done:</b>	100%
<b>Category:</b>	File Abstraction Layer (FAL)	<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>		<b>Complexity:</b>	easy
<b>TYPO3 Version:</b>	8	<b>Is Regression:</b>	No
<b>PHP Version:</b>	7.0	<b>Sprint Focus:</b>	
<b>Tags:</b>			
<b>Description</b>			
Hi there			
When a non-admin tries to upload a file with special characters in the name (e.g. täst.txt) and \$GLOBALS['TYPO3_CONF_VARS']['SYS']['UTF8filesystem'] is active, the upload fails. This is because the default "fileDenyPattern" is not applied with the PCRE "u" option in GeneralUtility::verifyFilenameAgainstDenyPattern().			
This can be fixed by making those two patterns PCRE_UTF8 /.../u.			
Steps to reproduce:			
<ol style="list-style-type: none"><li>1. \$GLOBALS['TYPO3_CONF_VARS']['SYS']['UTF8filesystem'] = 1;</li><li>2. Leave \$GLOBALS['TYPO3_CONF_VARS']['BE']['fileDenyPattern'] as default</li><li>3. Switch to non-admin user</li><li>4. Upload a file with special characters in the file name (äöüèàè etc.)</li></ol>			
Kind regards Nils			
<b>Related issues:</b>			
Has duplicate TYPO3 Core - Bug #77516: verifyFilenameAgainstDenyPattern not U...		<b>Closed</b>	<b>2016-08-16</b>
Has duplicate TYPO3 Core - Bug #85384: verifyFilenameAgainstDenyPattern doesn't		<b>Closed</b>	<b>2018-06-25</b>

#### Associated revisions

##### Revision 020d8cac - 2018-10-28 17:19 - Pascal Rinker

[BUGFIX] Allow unicode characters in verifyFileNameAgainstDenyPattern

Using (valid) unicode characters in GeneralUtility::verifyFilenameAgainstDenyPattern was not possible due to a missing unicode modifier when evaluating regular expressions. The unicode modifier has been added. Since unicode errors in regular expressions will lead to `false` results, it is important to perform type-safe checks against `0`.

Resolves: #67061  
Releases: master, 8.7  
Change-Id: If3eea7129c92b296b85b93a1f1c81a446a2f5f90  
Reviewed-on: <https://review.typo3.org/57389>  
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: Benni Mack <[benni@typo3.org](mailto:benni@typo3.org)>  
Tested-by: Benni Mack <[benni@typo3.org](mailto:benni@typo3.org)>

##### Revision 1398fe40 - 2018-10-28 17:44 - Pascal Rinker

[BUGFIX] Allow unicode characters in verifyFileNameAgainstDenyPattern

Using (valid) unicode characters in GeneralUtility::verifyFilenameAgainstDenyPattern was not possible due

to a missing unicode modifier when evaluating regular expressions.  
The unicode modifier has been added.  
Since unicode errors in regular expressions will lead to `false` results, it is important to perform type-safe checks against `0`.

Resolves: #67061  
Releases: master, 8.7  
Change-Id: If3eea7129c92b296b85b93a1f1c81a446a2f5f90  
Reviewed-on: <https://review.typo3.org/58772>  
Tested-by: TYPO3com <[no-reply@typo3.com](mailto:no-reply@typo3.com)>  
Reviewed-by: Benni Mack <[benni@typo3.org](mailto:benni@typo3.org)>  
Tested-by: Benni Mack <[benni@typo3.org](mailto:benni@typo3.org)>

## History

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### #1 - 2015-06-22 10:24 - 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 <http://review.typo3.org/40518>

### #2 - 2015-06-22 10:42 - 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 <http://review.typo3.org/40518>

### #3 - 2015-06-22 10:47 - 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 <http://review.typo3.org/40518>

### #4 - 2015-06-22 11:04 - Mathias Brodala

Are you sure the upload fails with the default fileDenyPattern? The default value is `\\.(php[3-6]?|phpsh|phtml)(\\..*)?$|^\\.htaccess$` which would not deny files with umlauts.

### #5 - 2015-06-22 11:09 - Helmut Hummel

- Status changed from Under Review to Needs Feedback

### #6 - 2015-06-22 12:56 - Nils Blattner

Hi Mathias

Yes, it does fail with the default fileDenyPattern (just checked it again).  
From reading a bit on the php.net pages and stackoverflow, I guess it depends on what libpcre is installed.

The system where I found it to be a problem uses the following PCRE version:

```
$ dpkg -l | grep -i pcre
ii libpcre3:amd64 1:8.31-2ubuntu2 amd64 Perl 5 Compatible Regular Expression Library - runtime files
```

When matching UTF-8 strings or using an UTF-8 pattern, the "u"-modifier should be used:  
<http://php.net/manual/en/reference.pcre.pattern.modifiers.php#103348>

It may well be that the unit test passed because a different version of libpcre ignores the fact, that the subject is utf8.

Kind regards  
Nils

### #7 - 2015-09-28 15:23 - Alexander Opitz

- Status changed from Needs Feedback to New

- Target version changed from next-patchlevel to 6.2.16

### #8 - 2015-10-09 08:48 - Gerrit Code Review

- Status changed from New to Under Review

Patch set 4 for branch **master** of project **Packages/TYPO3.CMS** has been pushed to the review server.  
It is available at <http://review.typo3.org/40518>

**#9 - 2017-06-21 12:31 - Jens Jacobsen**

- TYPO3 Version changed from 6.2 to 8
- PHP Version changed from 5.5 to 7.0

This bug is still there in 7.6 LTS and 8 LTS and in my case it's preventing a TYPO3 console command to add/edit files containing any UTF-8 character in special, even if the *cli* backend user has admin rights. If this whole contribute process would be easier to understand I maybe would supply a patch. For now I'm going to try patching the GeneralUtility class via Composer. The solution would be to add the u modifier only if the UTF8filesystem is enabled:

```
public static function verifyFilenameAgainstDenyPattern($filename)
{
    $pattern = '/[[:cntrl:]]/';
    if ((string)$filename !== '' && (string)$GLOBALS['TYPO3_CONF_VARS']['BE']['fileDenyPattern'] !== '') {
        $pattern = '/(?:[[:cntrl:]]|' . $GLOBALS['TYPO3_CONF_VARS']['BE']['fileDenyPattern'] . ')/i' .
            ((bool)$GLOBALS['TYPO3_CONF_VARS']['SYS']['UTF8filesystem'] ? 'u' : '');
    }
    return !preg_match($pattern, $filename);
}
```

**#10 - 2017-10-19 21:55 - Riccardo De Contardi**

- Target version deleted (6.2.16)

**#11 - 2018-06-27 08:13 - Gerrit Code 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/57389>

**#12 - 2018-06-27 09:50 - Mathias Brodala**

- Has duplicate Bug #85384: verifyFilenameAgainstDenyPattern doesn't work with UTF-8 strings in Command added

**#13 - 2018-10-27 15:43 - 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/57389>

**#14 - 2018-10-27 15:49 - 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/57389>

**#15 - 2018-10-27 15:50 - 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/57389>

**#16 - 2018-10-27 17:11 - 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/57389>

**#17 - 2018-10-28 17:26 - 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/58772>

**#18 - 2018-10-28 17:30 - Anonymous**

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

Applied in changeset [020d8cac4349663d551649644244723afefb594e](https://review.typo3.org/58772).

**#19 - 2019-05-07 12:17 - Benni Mack**

- Status changed from Resolved to Closed

**Files**

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20150520-GeneralUtility.php.diff	729 Bytes	2015-05-20	Nils Blattner
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