

TYPO3 Core - Bug #37467

Change in class.t3lib_div.php may break things for HTTPS via reverse proxy

2012-05-24 14:51 - Sybille Peters

Status:	Closed	Start date:	2012-05-24
Priority:	Should have	Due date:	
Assignee:		% Done:	100%
Category:		Estimated time:	0.00 hour
Target version:		Complexity:	
TYPO3 Version:	4.5	Is Regression:	
PHP Version:	5.3	Sprint Focus:	
Tags:			

Description

The change introduced in TYPO3 4.5.16 as fix for bug [#36004](#) makes working in backend impossible for some HTTPS reverse-proxy configurations.

It may be a misconfiguration on our end, but as far as I can see, since the change HTTPS will only work with reverse proxy, if **X-Forwarded-For** contains local and proxy IP and

```
['TYPO3_CONF_VARS']['SYS']['reverseProxyHeaderMultiValue' = "last";
```

Login to backend works, but then a network connections error is displayed ("*Verbindungsproblem Bei dem Versuch eine Verbindung zum Server herzustellen ist ein Fehler aufgetreten. Bitte überprüfen Sie Ihre Netzwerkverbindung.*")

Analyzing this shows that the changed line 4151 in class.t3lib_div.php has caused this problem:

older version:

```
if (self::cmpIP($_SERVER['REMOTE_ADDR'], $proxySSL)) {
```

newer version:

```
if (self::cmpIP(self::getIndpEnv('REMOTE_ADDR'), $proxySSL)) {
```

Related issues:

Related to TYPO3 Core - Bug #29693: Respect HTTP_X_FORWARDED_PROTO in SSL check

Rejected

2011-09-12

Associated revisions

Revision b9cb4518 - 2014-06-06 11:38 - Jan-Erik Revsbech

[BUGFIX] getIndpEnv('TYPO3_SSL') fails to detect reverseProxyIp

When running TYPO3 behind a reverse proxy, which also handles SSL, the setting reverseProxySSL should check if the site is requested from one of the reverse proxies in order to determine whether the site is using SSL.

It incorrectly does this check via getIndpEnv('REMOTE_ADDR') which has already translated the proxy IP to the end-users IP, thus always returning FALSE.

Resolves: #37467

Release: 6.2, 6.1

Change-Id: I95615b0fea94e0ef0222e958e4e0bba5e6e9f60a

Reviewed-on: <https://review.typo3.org/30581>

Reviewed-by: Wouter Wolters

Reviewed-by: Mattias Nilsson

Tested-by: Mattias Nilsson

Reviewed-by: Jan-Erik Revsbech

Tested-by: Jan-Erik Revsbech

Reviewed-by: Markus Klein

Tested-by: Markus Klein

Revision 0f9bd665 - 2014-06-06 11:43 - Jan-Erik Revsbech

[BUGFIX] getIndpEnv('TYPO3_SSL') fails to detect reverseProxyIp

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Change-Id: I95615b0fea94e0ef0222e958e4e0bba5e6e9f60a

Reviewed-on: <https://review.typo3.org/30604>

Reviewed-by: Markus Klein

Tested-by: Markus Klein

History

#1 - 2012-05-30 10:26 - Sybille Peters

Further debugging:

```
$_SERVER['REMOTE_ADDR'] : reverse-proxy ip
$_SERVER['HTTP_X_FORWARDED_FOR'] : client ip
$_SERVER['HTTPS'] : off (because reverse-proxy uses normal HTTP session between reverse-proxy and server)
$_SERVER['SSL_SESSION_ID'] : empty
```

Due to this, in the code, because value of self::getIndpEnv('REMOTE_ADDR') is different from proxy, the else branch is executed and \$retVal is set to FALSE.

```
-----
case 'TYPO3_SSL':
    $proxySSL = trim($GLOBALS['TYPO3_CONF_VARS']['SYS']['reverseProxySSL']);
    if ($proxySSL == '') {
        $proxySSL = $GLOBALS['TYPO3_CONF_VARS']['SYS']['reverseProxyIP'];
    }
    if (self::cmpIP(self::getIndpEnv('REMOTE_ADDR'), $proxySSL)) {
        $retVal = TRUE;
    } else {
        $retVal = $_SERVER['SSL_SESSION_ID'] || !strcasecmp($_SERVER['HTTPS'], 'on') || !strcmp($_SERVER['HTTPS'], '1') ? TRUE : FALSE; // see
http://bugs.typo3.org/view.php?id=3909
    }
    break;
-----
```

#2 - 2012-05-30 10:30 - Sybille Peters

Same problem with TYPO3 4.6.9

#3 - 2012-05-30 15:51 - Sybille Peters

Workaround: Issue can be resolved by changing configuration on server:

1) Append IP of reverse-proxy to "X-Forwarded-For" header

2) change typo3conf/localconf.php:

```
$TYPO3_CONF_VARS['SYS']['reverseProxyHeaderMultiValue'] = 'last';
```

#4 - 2012-09-18 18:51 - Christian Opitz

Sybille Peters wrote:

Workaround: Issue can be resolved by changing configuration on server:

1) Append IP of reverse-proxy to "X-Forwarded-For" header

2) change typo3conf/localconf.php:

```
$TYPO3_CONF_VARS['SYS']['reverseProxyHeaderMultiValue'] = 'last';
```

That would result in a wrong `t3lib_div::getIndpEnv('REMOTE_ADDR')` which is not very helpful - another (also awkward) workaround would be:

```
$TYPO3_CONF_VARS['SYS']['reverseProxyHeaderMultiValue'] = 'first';
$TYPO3_CONF_VARS['SYS']['reverseProxySSL'] = array_shift(explode(',', $_SERVER['HTTP_X_FORWARDED_FOR'], 1));
$TYPO3_CONF_VARS['SYS']['reverseProxyIP'] = '10.1.1.10';
```

Anyway, to me it's obvious that comparing the `$_SERVER['REMOTE_ADDR']` instead of `self::getIndpEnv('REMOTE_ADDR')` with `$proxyIp` would be the way to go.

#5 - 2012-10-09 14:15 - Xavier Perseguers

- Status changed from New to Resolved

- % Done changed from 0 to 100

#6 - 2012-12-05 16:06 - Sybille Peters

Issue still persists in 4.5.22

Both proposed work-arounds are crude and not to be recommended in the long run (in my opinion).

#7 - 2012-12-06 12:16 - Xavier Perseguers

- Status changed from Resolved to Needs Feedback

- % Done changed from 100 to 0

Don't know why I set it to resolved ?

#8 - 2012-12-06 14:39 - Sybille Peters

What feedback?

#9 - 2013-07-02 15:10 - Alexander Opitz

Hi,

this issue is very old, does it still exist with newer versions of TYPO3 CMS (4.5 or 6.1)?

#10 - 2013-07-02 15:38 - kelsaka no-lastname-given

For Typo3 4.5.27 the issue still exists.

#11 - 2013-07-02 15:40 - Sybille Peters

Reproduced with TYPO3 CMS 4.7.12 and 4.5.27.

For now, we found a configuration that works. For the future, I would not recommend using a reverse proxy with TYPO3.

#12 - 2013-07-03 23:45 - Alexander Opitz

- Status changed from Needs Feedback to New

#13 - 2013-07-17 00:35 - Christian Ludwig

This bug exists in all versions of TYPO3 (4.7.12 and 6.1.1 checked).

```
if (self::cmpIP(self::getIndpEnv('REMOTE_ADDR'), $proxySSL)) {
```

should be changed to

```
if (self::cmpIP($_SERVER['REMOTE_ADDR'], $proxySSL)) {
```

as it is used in case 'TYPO3_REV_PROXY':

/t3lib/class.t3lib_div.php (v4.7.12 on line 3651)

/typo3/sysex/core/Classes/Utility/GeneralUtility.php (v6.1.1 on line 3311)

Issues [#29693](#) fixes it and respects HTTP_X_FORWARDED_PROTO.

#14 - 2014-06-05 09:50 - Jan-Erik Revsbech

I can confirm that this is indeed a problem. I seem to have other problems when solving this, so I will dig a little further into this problem, but otherwise

I will submit a patchet that fixes this.

#15 - 2014-06-05 11:55 - 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/30581>

#16 - 2014-06-05 12:20 - 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/30581>

#17 - 2014-06-05 19:37 - 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/30581>

#18 - 2014-06-06 11:42 - 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/30604>

#19 - 2014-06-06 12:30 - Jan-Erik Revsbech

- *Status changed from Under Review to Resolved*

- *% Done changed from 0 to 100*

Applied in changeset [0f9bd665fba2fa0240c5bba38bdfbbf6214cad47](#).

#20 - 2017-11-25 22:34 - Sybille Peters

- *Description updated*

#21 - 2018-10-02 12:17 - Benni Mack

- *Status changed from Resolved to Closed*