

TYPO3 Core - Bug #87574

Redirects to records (linkHandler) don't work

2019-01-29 18:36 - Ben Robinson

Status:	Closed	Start date:	2019-01-29
Priority:	Should have	Due date:	
Assignee:		% Done:	100%
Category:	Link Handling, Site Handling & Routing	Estimated time:	0.00 hour
Target version:		Complexity:	
TYPO3 Version:	9	Is Regression:	
PHP Version:		Sprint Focus:	
Tags:			

Description

A redirect (sysex:redirects) to a record (f.e. t3://record?identifier=tx_news&uid=1) results in the error:

Core: Exception handler (WEB): Uncaught TYPO3 Exception: Call to a member function getMountPointInfo() on string | Error thrown in file /html/typo3/typo3_src-9.5.4/typo3/sysex/frontend/Classes/Typolink/PageLinkBuilder.php in line 111. Requested URL: [...]

TSconfig

```
TCEMAIN.linkHandler{
    tx_news{
        handler = TYPO3\CMS\Recordlist\LinkHandler\RecordLinkHandler
        label = News
        scanAfter = page
        displayBefore = file
        configuration {
            table = tx_news_domain_model_news
            storagePid = 35
            hidePageTree = 0
            pageTreeMountPoints = 35
        }
    }
}
```

Setup

```
config.recordLinks{
    tx_news{
        typolink{
            parameter = 39
            additionalParams.data = field:uid
            additionalParams.wrap = &tx_news_pil[controller]=News&tx_news_pil[action]=detail&tx_news_pil[news]=|
            useCacheHash = 1
        }
    }
}
```

I have tested this setup with links in regular content like ...

```
<a href="t3://record?identifier=tx_news&uid=1">Link</a>
```

... and those are working fine.

Related issues:

Related to TYPO3 Core - Bug #82798: Linkhandler for records works only when B...

Closed

2017-10-18

Associated revisions

Revision d10eafa6 - 2019-10-30 13:02 - Benni Mack

[BUGFIX] Allow redirects to specific records

Creating links to specific records (LinkHandler functionality) does require a global TSFE object. In addition, calling LinkBuilder directly will result in a fatal error when linking e.g. to EXT:news records.

Currently, this is not possible as the RedirectService is not prepared for this.

The patch modifies the places accordingly.

Resolves: #87574

Releases: master, 9.5

Change-Id: lebda76bad0a2681df30f2ea4c42cfd3b5cd4a39f

Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+62128>

Tested-by: TYPO3com <noreply@typo3.com>

Tested-by: Oliver Bartsch <bo@cedev.de>

Tested-by: Georg Ringer <georg.ringer@gmail.com>

Tested-by: Daniel Goerz <daniel.goerz@posteo.de>

Reviewed-by: Oliver Bartsch <bo@cedev.de>

Reviewed-by: Georg Ringer <georg.ringer@gmail.com>

Reviewed-by: Daniel Goerz <daniel.goerz@posteo.de>

Revision 71425712 - 2019-10-30 13:53 - Benni Mack

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Change-Id: lebda76bad0a2681df30f2ea4c42cfd3b5cd4a39f

Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+62137>

Tested-by: TYPO3com <noreply@typo3.com>

Tested-by: Daniel Goerz <daniel.goerz@posteo.de>

Reviewed-by: Daniel Goerz <daniel.goerz@posteo.de>

History

#1 - 2019-02-28 10:04 - Ben Robinson

- Related to Bug #82798: Linkhandler for records works only when BE user is logged in added

#2 - 2019-02-28 10:25 - Ben Robinson

I found out, that the "News"-Tab is only available in the linkwizard of the redirects module, if the TSconfig is included via ext_tables.php

```
\TYPO3\CMS\Core\Utility\ExtensionManagementUtility::addPageTSConfig('<INCLUDE_TYPOSCRIPT: source="DIR:EXT:user_site/Configuration/TsConfig/Page">');
```

If it is included in the TSconfig in the page properties of the rootpage ...

```
<INCLUDE_TYPOSCRIPT: source="DIR:EXT:user_site/Configuration/TsConfig/Page">
```

... the tab is not even visible.

Summary

TSconfig via ext_tables.php:

- Error *Call to a member function getMountPointInfo() on string*
- [Issue 82798](#) occurs (Links to records broken if cache is generated by someone who is not logged into BE). **Can someone please reopen this issue?**

TSconfig via page properties:

- Tab not even available in link wizard of redirects module

#3 - 2019-02-28 21:08 - Benni Mack

Hey Ben,

thank you very much for your report!

Could you please try with latest 9.5.x-dev? we've improved this area since 9.5.4, and hopefully this is now solved.

#4 - 2019-03-01 07:44 - Benni Mack

- Status changed from New to Needs Feedback

#5 - 2019-03-01 14:35 - Ben Robinson

Hi Benni,

I have just tested it with 9.5.5-dev. It's all the same as with 9.5.4:

If the TSconfig-file is included in the page properties of the rootpage:

- The redirect does not work. Error in FE: Call to a member function getMountPointInfo() on string
- It is not possible to create new redirects to records, because the „News“-tab is missing in the link wizard of the redirect module

If the TSconfig-file is included via ext_tables.php

- The redirect does not work. Error inn FE: Call to a member function getMountPointInfo() on string
- It is possible to create redirects to records
- Issue 82798 still occurs (I dont have permissions to reopen the issue. Could you please?)

#6 - 2019-03-07 10:35 - Daniel Dorndorf

I have the same issue...

Also in Backend the redirect module just throws an exception:

```
PHP Warning: Invalid argument supplied for foreach() in /public/typo3/sysext/frontend/Classes/Controller/TypoS  
criptFrontendController.php line 4399
```

It seems in backend the rootLine in the TypoScriptFrontendController is missing, which is needed to determine its page ts.

In Frontend the PageRepository is not properly initialized, even though It would have, you would run into the same error as in the backend, that the controller cannot fetch the page ts.

DatabaseRecordLinkBuilder relies on the method getPagesTSconfig which expects to have a rootline.

I faced this issue also when building a rest api via middleware using the lib.parseFunc_rte, I tried using the way the htmlviewhelper but wrote an own frontend emulating function, maybe it helps fixing this:

```
$rootPageId = null;

/** @var \TYPO3\CMS\Core\Site\Entity\Site $site */
foreach (ObjectUtility::makeInstance(SiteFinder::class)->getAllSites() as $site) {
    if (GeneralUtility::getIndpEnv('TYPO3_HOST_ONLY') === $site->getBase()->getHost()) {
        $rootPageId = $site->getRootPageId();
    }
}

if (null === $rootPageId) {
    throw new RteFrontendSimulationException('Can\'t determine the rootpage uid to use');
}

/** @var \TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController $typoScriptFrontendController */
$typoScriptFrontendController = ObjectUtility::makeInstance(
    TypoScriptFrontendController::class,
    null,
    $rootPageId,
    1
);

/** @var array $rootline */
$rootline = ObjectUtility::makeInstance(RootlineUtility::class, $rootPageId)->get();
```

```

$typoScriptFrontendController->rootLine = $rootline;
$typoScriptFrontendController->sys_page = ObjectUtility::makeInstance(PageRepository::class);

$GLOBALS['TSFE'] = $typoScriptFrontendController;

/** @var \TYPO3\CMS\Core\TypoScript\TemplateService $templateService */
$templateService = ObjectUtility::makeInstance(TemplateService::class);
$templateService->start($rootline);

$GLOBALS['TSFE']->tmpl = $templateService;

```

#7 - 2019-03-07 10:56 - Daniel Dorndorf

You can build a workaround with that by xclass the databaseRecordLinkBuilder

```

<?php
declare(strict_types=1);

namespace Vendor\Extension\XClass;

use TYPO3\CMS\Core\Site\SiteFinder;
use TYPO3\CMS\Core\TypoScript\TemplateService;
use TYPO3\CMS\Core\Utility\GeneralUtility;
use TYPO3\CMS\Core\Utility\RootlineUtility;
use TYPO3\CMS\Extbase\Object\ObjectManager;
use TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController;
use TYPO3\CMS\Frontend\Page\PageRepository;
use TYPO3\CMS\Frontend\Typolink\DatabaseRecordLinkBuilder as CoreDatabaseRecordLinkBuilder;

/**
 * @package Extension
 * @subpackage XClass
 */
class DatabaseRecordLinkBuilder extends CoreDatabaseRecordLinkBuilder
{
    /**
     * @return TypoScriptFrontendController
     */
    public function getTypoScriptFrontendController(): TypoScriptFrontendController
    {
        $rootPageId = null;

        /** @var \TYPO3\CMS\Extbase\Object\ObjectManager $objectManager */
        $objectManager = GeneralUtility::makeInstance(ObjectManager::class);

        /** @var \TYPO3\CMS\Core\Site\Entity\Site $site */
        foreach ($objectManager->get(SiteFinder::class)->getAllSites() as $site) {
            if (GeneralUtility::getIndpEnv('TYPO3_HOST_ONLY') === $site->getBase()->getHost()) {
                $rootPageId = $site->getRootPageId();
            }
        }

        if (!$this->typoScriptFrontendController instanceof TypoScriptFrontendController) {
            /** @var \TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController $typoScriptFrontendController */
            $this->typoScriptFrontendController = $objectManager->get(
                TypoScriptFrontendController::class,
                null,
                $rootPageId,
                1
            );
        }

        if (false === is_array($this->typoScriptFrontendController->rootLine)) {
            $this->typoScriptFrontendController->rootLine = $objectManager->get(RootlineUtility::class, $rootPageId)->get();
        }

        if (!$this->typoScriptFrontendController->sys_page instanceof PageRepository) {
            $this->typoScriptFrontendController->sys_page = $objectManager->get(PageRepository::class);
        }

        $GLOBALS['TSFE'] = $this->typoScriptFrontendController;

        if (!$GLOBALS['TSFE']->tmpl instanceof TemplateService) {

```

```

    /** @var \TYPO3\CMS\Core\TypoScript\TemplateService $templateService */
    $templateService = $objectManager->get (TemplateService::class);
    $templateService->start ($this->typoScriptFrontendController->rootLine);

```

```

    $GLOBALS['TSFE']->tmpl = $templateService;
}

```

```

return $this->typoScriptFrontendController;
}
}

```

#8 - 2019-03-07 13:10 - Daniel Dorndorf

Just got further into it and found out another problem that databaseRecordLinkBuilder isn't returning anything at all, but the RedirectService is expecting an array with key url.

```

public/typo3/sysex/typo3/frontend/Classes/TypoLink/DatabaseRecordLinkBuilder.php:30
public/typo3/sysex/typo3/redirects/Classes/Service/RedirectService.php:248

```

#9 - 2019-03-07 13:29 - Daniel Dorndorf

Here the xclass workaround for the faulty redirectservice

```

<?php
declare(strict_types=1);

namespace Vendor\Extension\XClass;

use Psr\Http\Message\UriInterface;
use TYPO3\CMS\Core\Http\Uri;
use TYPO3\CMS\Core\Site\Entity\SiteInterface;
use TYPO3\CMS\Core\TypoScript\TemplateService;
use TYPO3\CMS\Core\Utility\GeneralUtility;
use TYPO3\CMS\Core\Utility\HttpUtility;
use TYPO3\CMS\Core\Utility\RootlineUtility;
use TYPO3\CMS\Extbase\Object\ObjectManager;
use TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController;
use TYPO3\CMS\Frontend\Page\PageRepository;
use TYPO3\CMS\Frontend\TypoLink\UnableToLinkException;
use TYPO3\CMS\Redirects\Service\RedirectService as CoreRedirectService;

/**
 * @package Extension
 * @subpackage XClass
 */
class RedirectService extends CoreRedirectService
{
    /**
     * @param array $redirectRecord
     * @param \TYPO3\CMS\Core\Site\Entity\SiteInterface|null $site
     * @param array $linkDetails
     * @param array $queryParams
     * @return \Psr\Http\Message\UriInterface|null
     */
    protected function getUriFromCustomLinkDetails(array $redirectRecord, ?SiteInterface $site, array $linkDetails, array $queryParams): ?UriInterface
    {
        if (!isset($linkDetails['type'], $GLOBALS['TYPO3_CONF_VARS']['FE']['typoLinkBuilder'][$linkDetails['type']])) {
            return null;
        }

        /** @var \TYPO3\CMS\Extbase\Object\ObjectManager $objectManager */
        $objectManager = GeneralUtility::makeInstance(ObjectManager::class);

        $controller = $this->bootFrontendController($site, $queryParams);
        /** @var \TYPO3\CMS\Frontend\TypoLink\AbstractTypoLinkBuilder $linkBuilder */
        $linkBuilder = $objectManager->get(
            $GLOBALS['TYPO3_CONF_VARS']['FE']['typoLinkBuilder'][$linkDetails['type']],
            $controller->cObj,
            $controller
        );
        try {
            $configuration = [
                'parameter' => (string) $redirectRecord['target'],

```

```

        'forceAbsoluteUrl' => true,
    ];
    if ($redirectRecord['force_https']) {
        $configuration['forceAbsoluteUrl']['scheme'] = 'https';
    }
    if ($redirectRecord['keep_query_parameters']) {
        $configuration['additionalParams'] = HttpUtility::buildQueryString($queryParams, '&');
    }

    list($url) = $linkBuilder->build($linkDetails, '', '', $configuration);

    return new Uri($url);
} catch (UnableToLinkException $exception) {
    try {
        $linkBuilderReflection = new \ReflectionClass($linkBuilder);
        $contentObjectRendererPropertyReflection = $linkBuilderReflection->getProperty('contentObjectR
enderer');
        $contentObjectRendererPropertyReflection->setAccessible(true);
        /** @var \TYPO3\CMS\Frontend\ContentObject\ContentObjectRenderer $contentObjectRenderer */
        $contentObjectRenderer = $contentObjectRendererPropertyReflection->getValue($linkBuilder);

        $url = $contentObjectRenderer->lastTypoLinkUrl;

        if (false === empty($url)) {
            return new Uri($url);
        }
    } catch (\ReflectionException $e) {
        // nothing
    }

    return null;
}

/**
 * @param \TYPO3\CMS\Core\Site\Entity\SiteInterface|null $site
 * @param array $queryParams
 * @return \TYPO3\CMS\Frontend\Controller\TypoScriptFrontendController
 */
protected function bootFrontendController(?SiteInterface $site, array $queryParams): TypoScriptFrontendCon
troller
{
    $typoScriptFrontendController = parent::bootFrontendController($site, $queryParams);

    /** @var \TYPO3\CMS\Extbase\Object\ObjectManager $objectManager */
    $objectManager = GeneralUtility::makeInstance(ObjectManager::class);

    if (false === is_array($typoScriptFrontendController->rootLine)) {
        $typoScriptFrontendController->rootLine = $objectManager->get(
            RootlineUtility::class,
            $typoScriptFrontendController->id
        )->get();
    }

    if (!$typoScriptFrontendController->sys_page instanceof PageRepository) {
        $typoScriptFrontendController->sys_page = $objectManager->get(PageRepository::class);
    }

    $GLOBALS['TSFE'] = $typoScriptFrontendController;

    if (!$GLOBALS['TSFE']->tmpl instanceof TemplateService) {
        /** @var \TYPO3\CMS\Core\TypoScript\TemplateService $templateService */
        $templateService = $objectManager->get(TemplateService::class);
        $templateService->start($typoScriptFrontendController->rootLine);

        $GLOBALS['TSFE']->tmpl = $templateService;
    }

    return $typoScriptFrontendController;
}
}

```

#10 - 2019-03-07 19:49 - Benni Mack

Hey Daniel,

great input here. Thanks!

could you provide a patch for this change? (Except for booting up objectManager, can you elaborate why you needed to do this?)

Thanks.
Benni.

#11 - 2019-03-08 09:53 - Daniel Dorndorf

Hi Benni,

you are probably right, GeneralUtility::makeInstance should do the job.

For a patch I'm not 100% sure if it does not cause problems anywhere else.

In the DatabaseRecordLinkBuilder it always throws an exception but I don't know why this was necessary.
I'm missing some background information here :-/

In my extension I wrote a trait and xclassed all linkbuilder and the redirectservice so the module and the redirects are working, not sure if this causes problems somewhere else.

#12 - 2019-10-28 16:19 - Gerrit Code Review

- Status changed from Needs Feedback 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/c/Packages/TYPO3.CMS/+62128>

#13 - 2019-10-28 16:33 - 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/c/Packages/TYPO3.CMS/+62128>

#14 - 2019-10-30 13:03 - Gerrit Code Review

Patch set 1 for branch **9.5** of project **Packages/TYPO3.CMS** has been pushed to the review server.
It is available at <https://review.typo3.org/c/Packages/TYPO3.CMS/+62137>

#15 - 2019-10-30 13:30 - Benni Mack

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

Applied in changeset [d10eafa67d1e04297513986423074ef976526b1a](https://review.typo3.org/c/Packages/TYPO3.CMS/+62137).

#16 - 2019-12-23 22:48 - Benni Mack

- Status changed from Resolved to Closed

#17 - 2020-03-23 19:33 - Georg Ringer

- Related to Feature #90818: Redirects - show config.recordLinks on target Links added