

## TYPO3 Core - Feature #78488

Epic # 83559 (Closed): SEO enhancements in Core

### Add rel="noopener noreferrer" to links when target is set to \_blank

2016-10-28 15:11 - Markus Hölzle

<b>Status:</b> Closed	<b>Start date:</b> 2016-10-28
<b>Priority:</b> Should have	<b>Due date:</b>
<b>Assignee:</b>	<b>% Done:</b> 100%
<b>Category:</b> Security	<b>Estimated time:</b> 0.00 hour
<b>Target version:</b>	
<b>PHP Version:</b>	<b>Complexity:</b>
<b>Tags:</b>	<b>Sprint Focus:</b>
<b>Description</b>	
<p>Hey there,</p> <p>is there a solution for the known security issue with which one the websites are vulnerable for phishing with javascripts "window.opener.location"?</p> <p>To prevent this issue you have to add an attribute rel="noopener noreferrer" to every a-Tag which opens an external link (see <a href="https://mathiasbynens.github.io/rel-noopener/">https://mathiasbynens.github.io/rel-noopener/</a>).</p> <p>I tried to insert this attribute to the core in the function "TYPO3\CMS\Frontend\ContentObject\ContentObjectRenderer-&gt;typoLink()" but there is no possibility to add dynamic attributes to an link.</p> <p>Is it possible to add a typoscript configuration like "page.config.extTarget" for the "rel" attribute?</p> <p>The current workaround is to add this attribute with javascript - but I think there should be a solution from the TYPO3 core. What do you think?</p> <p>Regards, Markus</p>	
<b>Related issues:</b>	
Related to TYPO3 Core - Feature #34288: Typolink should allow rel attribute	<b>Closed</b> 2012-02-26
Related to TYPO3 Core - Feature #5341: Page's "target" field inprovements	<b>Closed</b> 2009-11-12
Related to TYPO3 Core - Task #89347: Provide strong defaults for anchor noferr...	<b>New</b> 2019-10-04
Related to TYPO3 Core - Bug #89338: Links such as tel: ... in content element...	<b>Closed</b> 2019-10-03
Related to TYPO3 Core - Bug #89757: Fix noopener noreferrer issue	<b>Closed</b> 2019-11-23
Related to TYPO3 Core - Bug #89771: rel="noreferrer" should be set for all new...	<b>Closed</b> 2019-11-25
Has duplicate TYPO3 Core - Bug #78507: Links set to target="_blank" without r...	<b>Closed</b> 2016-10-30
Has duplicate TYPO3 Core - Feature #82055: Add noopener behavior to external ...	<b>Closed</b> 2017-08-07

### Associated revisions

#### Revision 523875cf - 2019-08-02 11:52 - Daniel Siepmann

[FEATURE] Add noopener and noreferrer to external target blank links

All links processed by TypoLink now will add rel="noopener noreferrer" if necessary.

They are only added for target="\_blank" and external hosts.

Resolves: #78488

Releases: master

Change-Id: I24f6a7756e7905ed641e193aff5d1d94375233c0

Reviewed-on: <https://review.typo3.org/c/Packages/TYPO3.CMS/+59194>

Tested-by: Georg Ringer <[georg.ringer@gmail.com](mailto:georg.ringer@gmail.com)>

Tested-by: TYPO3com <[noreply@typo3.com](mailto:noreply@typo3.com)>

Tested-by: Anja Leichsenring <[leichsenring@ab-softlab.de](mailto:leichsenring@ab-softlab.de)>

Reviewed-by: Georg Ringer <[georg.ringer@gmail.com](mailto:georg.ringer@gmail.com)>

Reviewed-by: Anja Leichsenring <[leichsenring@ab-softlab.de](mailto:leichsenring@ab-softlab.de)>

## History

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### #1 - 2016-10-28 19:24 - Helmut Hummel

- Assignee deleted (Helmut Hummel)

### #2 - 2016-10-28 19:38 - Helmut Hummel

- Subject changed from Security issue: prevent phishing by adding rel="noopener noreferrer" to links to Add rel="noopener noreferrer" to links when target is set to \_blank

Two things here.

1. The window.opener.location is only accessible from the link target, when HTML attribute target is set to "\_blank" (or any other value opening a new window)
2. The issue can only become problematic, for untrusted user generated content.

The first can be mitigated by just not using "\_blank" for external links, which is configurable in TYPO3.

For second thing here, the impact is pretty low in a typical CMS scenario, where trusted editors create content for website visitors.

It does not make sense for editors to exploit this, as they can create links that look internal and lead to a malicious website anyway (page type external url), so why taking the detour here.

For frontend user generated content (e.g. comments) I would recommend to disallow creation of **any** HTML anyway, as letting them inserting links is an issue of its own. And if links are allowed in such case, target \_blank should be disallowed.

So I'm really not sure what we could / should fix here in TYPO3

### #3 - 2016-11-19 18:59 - Riccardo De Contardi

some suggestions on [#78507](#)

### #4 - 2016-11-26 11:19 - Chris Sy

I agree that the risk is low for the most typo3 deployments.

But given the following example:

You're typo3 deployment deliver news to your visitors.

You reference external sites alot.

Maybe oneday one of these external sites get hacked and delivers malicious code.

You cannot know what people deploy with typo3, maybe they use felogin and provide a link exchange service.

There a so much examples and I don't think that it helps to simply say disallow \_blank.

Is it a problem to apply "rel="noopener noreferrer" for every `a` tag with target \_blank?

### #5 - 2016-11-26 21:17 - Helmut Hummel

Maybe oneday one of these external sites get hacked and delivers malicious code.

That is still an unlikely, but absolutely valid scenario. Thanks for that!

Is it a problem to apply "rel="noopener noreferrer" for every `a` tag with target \_blank?

It is a challenge, yes. It is very likely that it breaks some use cases where the rel attribute is already used. So this change will be quite complex, and I would suggest to not introduce this as bugfix in released branches.

But I'm fine of course if somebody wants to dive into this and proposes a change for master.

Just be aware, that at the RTE has an interface to add a rel attribute and it is also possible to provide a rel attribute to the typolink function and that there are hooks, that might add attributes (e.g. a rel attribute)

So finding an appropriate place where to put that code that changes the rel attribute would be required as first step.

The it needs to be evaluated what needs to be done if a rel attribute is already present.

### #6 - 2017-08-07 21:24 - Wouter Wolters

- Has duplicate Feature #82055: Add noopener behavior to external links added

### #7 - 2017-11-29 10:49 - Alexander Opitz

Informations about this can also be found on <https://developers.google.com/web/tools/lighthouse/audits/noopener>

**#8 - 2018-03-23 09:41 - Tymoteusz Motylewski**

- *Tracker changed from Bug to Feature*

- *Parent task set to #83559*

**#9 - 2018-12-18 14:19 - 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/59194>

**#10 - 2019-01-23 16:25 - 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/59194>

**#11 - 2019-01-23 16:26 - 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/59194>

**#12 - 2019-01-29 08:26 - 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/59194>

**#13 - 2019-07-11 21:23 - 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/c/Packages/TYPO3.CMS/+59194>

**#14 - 2019-07-14 13:20 - Georg Ringer**

I started to have this as extension <https://github.com/georgringer/noopener> for 8+9

**#15 - 2019-07-15 20:04 - Patrick no-lastname-given**

Georg Ringer wrote:

I started to have this as extension <https://github.com/georgringer/noopener> for 8+9

Nice, works so far for content. Do you use it in production and could you provide a (beta) release on packagist? Thanks

**#16 - 2019-08-01 16:57 - 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/c/Packages/TYPO3.CMS/+59194>

**#17 - 2019-08-01 17:27 - Gerrit Code Review**

Patch set 7 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/+59194>

**#18 - 2019-08-01 17:42 - 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/c/Packages/TYPO3.CMS/+59194>

**#19 - 2019-08-02 09:19 - 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/c/Packages/TYPO3.CMS/+59194>

**#20 - 2019-08-02 09:29 - 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/c/Packages/TYPO3.CMS/+59194>

**#21 - 2019-08-02 11:40 - 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/c/Packages/TYPO3.CMS/+59194>

**#22 - 2019-08-02 12:00 - Daniel Siepmann**

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

Applied in changeset [523875cf497e9140c13ee18afa24d723718317b1](#).

**#23 - 2019-09-24 14:11 - Benni Mack**

- *Status changed from Resolved to Closed*

**#24 - 2019-10-04 12:02 - Oliver Hader**

- *Related to Task #89347: Provide strong defaults for anchor noreferred/noopener attribute added*

**#25 - 2019-10-04 12:29 - Christian EBI**

- *Related to Bug #89338: Links such as tel: ... in content elements cause an error added*

**#26 - 2019-11-24 18:49 - Daniel Goerz**

- *Related to Bug #89757: Fix noopener noreferrer issue added*

**#27 - 2019-11-25 15:50 - Jonas Eberle**

- *Related to Bug #89771: rel="noreferrer" should be set for all new windows, not just \_blank added*