# **✓** XSS in Extension:RSS when \$wgRSSAllowLinkTag = true (CVE-2022-29969)

**■** Actions

✓ Closed, Resolved

Public

**SECURITY** 

## **Assigned To Bawolff Authored By Bawolff** 2022-04-27 17:45:27 (UTC+0) **Tags** Security-Team (Incoming) Security ■ MediaWiki-extensions-RSS (Backlog) \* Patch-For-Review **♥** MW-1.39-notes (1.39.0-wmf.10; 2022-05-02) **Referenced Files** F35071953: T307028.patch 2022-04-28 12:06:36 (UTC+0) **Subscribers Aklapper Bawolff** gerritbot Legoktm sbassett

### **Description**

### CVE-2022-29969

This is a WMF deployed extension, however \$wgRSSAllowLinkTag is false on cluster, so it is not vulnerable in the configuration used by WMF.

RSS extension implementation of strip markers suffers from a similar problem as MW core's used to before **T110143** was fixed. When \$wgRSSAllowLinkTag is set to true, you can use this to escape from an attribute.

As an example:

Set \$wgRSSAllowLinkTag = true;

Create an rss feed as follows:

- Be sure the above RSS feed is added to \$wgRSSUrlWhitelist
- Create a template named Template:RSS containing only

```
<div title="{{{description}}}"></div>
```

• Use the following tag on a page <rss
templatename=RSS>http://address.of.rss.feed.from.above</rss>

This should make an XSS that autotriggers on chrome, and triggers on hoover in firefox.

Best solution, is to probably copy what MW core does for strip markers with them including "'

### **Details**

### **Risk Rating**

Low

### **Author Affiliation**

Wikimedia Communities

	Project	Subject
þ	mediawiki/extensions/RSS	SECURITY: Prevent XSS from "stripItem" replacement strings in attribute
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### **Related Objects**

### **Mentions**

### **Mentioned In**

T305209: Write and send supplementary release announcement for extensions and skins with security patches (1.35.7/1.37.3/1.38.2)

### **Mentioned Here**

T305209: Write and send supplementary release announcement for extensions and skins with security patches (1.35.7/1.37.3/1.38.2)

T203210: Extension:RSS shouldn't invent its own way to escape and parse things

T110143: strip markers can be used to get around html attribute escaping in (many?) parser tags

- **Bawolff** created this task. 2022-04-27 17:45:27 (UTC+0)
- Restricted Application added a subscriber: **Aklapper**. · View Herald Transcript 2022-04-27 17:45:28 (UTC+0)
- **Bawolff** added a project: **MediaWiki-extensions-RSS**. 2022-04-27 17:46:38 (UTC+0)

Is this related to T203210: Extension:RSS shouldn't invent its own way to escape and parse things?

**■ Bawolff** added a comment. Edited · 2022-04-27 18:39:35 (UTC+0)

**Legoktm** added a subscriber: **Legoktm**. 2022-04-27 17:57:27 (UTC+0)

Its related to the custom strip marker scheme, i'm not sure if that's what is being referred to in the other task. The code path involved here is the one using the Sanitizer, not the one with a custom escaping function.

The actual escapeTemplateParameter isn't really a security boundry most of the time except when used with insertStripltem, since the results get parsed later in most cases.

**Bawolff** added a comment. 2022-04-28 12:06:36 (UTC+0)

Proposed patch



T307028.patch 1 KB

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Extension doesn't seem to have a maintainer to CC on this task. I assume I should not just throw on gerrit since its WMF deployed, even if this code path is not enabled on cluster.

sbassett mentioned this in T305209: Write and send supplementary release announcement for extensions and skins with security patches (1.35.7/1.37.3/1.38.2). 2022-04-28 21:23:09 (UTC+0) **sbassett** added a subscriber: **sbassett**. Edited · 2022-04-28 21:33:41 (UTC+0) In T307028#7887638, @Bawolff wrote: Extension doesn't seem to have a maintainer to CC on this task. I assume I should not just throw on gerrit since its WMF deployed, even if this code path is not enabled on cluster. Since ext:RSS isn't bundled, it would go out with the next supplemental release, which is tracked at **T305209**. I've added it there for now. Since this isn't currently vulnerable within Wikimedia production (and likely wouldn't ever be) I'd consider it low risk pushing it through gerrit. I think the only concern would be if other mediawiki operators were left uninformed or vulnerable for some time period, but IME we've tended not to care about that as much in the past and have just tried to merge security bug fixes quickly, make tasks public and send out the supplemental release each quarter, as best efforts. **Bawolff** added a comment. 2022-04-29 19:10:04 (UTC+0) https://gerrit.wikimedia.org/r/c/mediawiki/extensions/RSS/+/787807 . I guess i shouldn't +2 myself, so if anyone wants to review... **Legoktm** added a subscriber: **gerritbot**. 2022-04-29 21:18:38 (UTC+0) **gerritbot** added a comment. 2022-04-29 21:20:46 (UTC+0) Change 787807 **merged** by jenkins-bot: [mediawiki/extensions/RSS@master] SECURITY: Prevent XSS from "stripItem" replacement strings in attribute https://gerrit.wikimedia.org/r/787807 **Bawolff** closed this task as *Resolved*. 2022-04-29 21:21:55 (UTC+0) Bawolff claimed this task. Bawolff changed the visibility from "Custom Policy" to "Public (No Login Required)". Bawolff changed the edit policy from "Custom Policy" to "All Users". **gerritbot** added a comment. 2022-04-29 21:22:44 (UTC+0) Change 787779 had a related patch set uploaded (by Legoktm; author: Brian Wolff):

[mediawiki/extensions/RSS@REL1\_38] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute

https://gerrit.wikimedia.org/r/787779

**gerritbot** added a comment. 2022-04-29 21:23:03 (UTC+0) Change 787780 had a related patch set uploaded (by Legoktm; author: Brian Wolff): [mediawiki/extensions/RSS@REL1\_37] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787780 **gerritbot** added a comment. 2022-04-29 21:23:28 (UTC+0) Change 787781 had a related patch set uploaded (by Legoktm; author: Brian Wolff): [mediawiki/extensions/RSS@REL1\_36] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787781 **gerritbot** added a comment. 2022-04-29 21:23:43 (UTC+0) Change 787782 had a related patch set uploaded (by Legoktm; author: Brian Wolff): [mediawiki/extensions/RSS@REL1\_35] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787782 **gerritbot** added a comment. 2022-04-29 21:23:44 (UTC+0) Change 787783 had a related patch set uploaded (by Brian Wolff; author: Brian Wolff): [mediawiki/extensions/RSS@REL1\_34] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787783 **gerritbot** added a comment. 2022-04-29 21:24:29 (UTC+0) Change 787779 **merged** by jenkins-bot: [mediawiki/extensions/RSS@REL1 38] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787779 **gerritbot** added a comment. 2022-04-29 21:26:05 (UTC+0) Change 787780 **merged** by jenkins-bot: [mediawiki/extensions/RSS@REL1\_37] SECURITY: Prevent XSS from "stripItem" replacement strings in attribute

# https://gerrit.wikimedia.org/r/787780 gerritbot added a comment. 2022-04-29 21:26:58 (UTC+0) Change 787781 merged by jenkins-bot: [mediawiki/extensions/RSS@REL1\_36] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787781 perritbot added a comment. 2022-04-29 21:27:25 (UTC+0) Change 787783 merged by Brian Wolff: [mediawiki/extensions/RSS@REL1\_34] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787783

**gerritbot** added a comment. 2022-04-29 21:27:32 (UTC+0)

Change 787782 **merged** by jenkins-bot:

[mediawiki/extensions/RSS@REL1\_35] SECURITY: Prevent XSS from "stripltem" replacement strings in attribute https://gerrit.wikimedia.org/r/787782

- ReleaseTaggerBot added a project: <del>MW-1.39-notes (1.39.0-wmf.10; 2022-05-02)</del>. 2022-04-29 22:00:36 (UTC+0)
- **Bawolff** updated the task description. **(Show Details)** 2022-08-16 08:09:54 (UTC+0)
- **sbassett** renamed this task from XSS in Extension:RSS when \$wgRSSAllowLinkTag = true; to XSS in Extension:RSS when \$wgRSSAllowLinkTag = true (CVE-2022-29969). 2022-08-16 13:36:57 (UTC+0)
- **sbassett** triaged this task as *Low* priority.
- **sbassett** changed Risk Rating from N/A to Low.