



Security Issues Patched in Smash Balloon Social Post Feed Plugin

Updated on October 29, 2021 - Marc Montpas

During an internal audit of the Smash Balloon Social Post Feed plugin (also known as Custom Facebook Feed), we discovered several sensitive AJAX endpoints were accessible to any users with an account on the vulnerable site, like subscribers. Some of these endpoints could enable Stored Cross-Site Scripting (XSS) attacks to occur.

A successful Stored XSS attack could enable bad actors to store malicious scripts on every post and page of the affected site. If a logged-in administrator visits one of the affected URLs, the script may run on their browser and execute administrative actions on their behalf, like creating new administrators and installing roque plugins.

We reported the vulnerabilities to this plugin's author via email, and they recently released version 4.0.1 to address them. We strongly recommend that you update to the latest version of the Smash Balloon Social Post Feed plugin and have an established security solution on your site, such as Jetpack Security.

Details

Plugin Name: Smash Balloon Social Post Feed

Plugin URI: https://wordpress.org/plugins/custom-facebook-feed/

Author: Smash Balloon

Author URI: https://smashballoon.com/

The Vulnerabilities

Stored Cross-Site Scripting via Arbitrary Setting Update

Affected versions: < 4.0.1 CVE-ID: CVE-2021-24918 CVSSv3.1: 73 **CWSS:** 80.6

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                                               return;
                              }
                              // (...)
                              $model = (array) \json_decode( \stripslashes( $model ) );
$general = (array) $model['general'];
$feeds = (array) $model['feeds'];
$translation = (array) $model['translation'];
$advanced = (array) $model['advanced'];
// Get the values and sanitize
$cff_locale
                             customus j;
sanitize_text_field( $feeds['gdpr'] );
= sanitize_text_field( $feeds['cachingType'] );
= sanitize_text_field( $feeds['cronInterval'] );
= sanitize_text_field( $feeds['cronIme'] );
= sanitize_text_field( $feeds['cronIme'] );
= sanitize_text_field( $feeds['cacheTime'] );
= sanitize_text_field( $feeds['cacheTime'] );
= sanitize_text_field( $feeds['cacheTime'] );
109
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111
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                               $cronAmPm
$cacheTime
                               $cacheTimeUnit
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                              // Save general settings data
update_option('cff_preserve_settings', $general['preserveSettings']);
// Save feeds settings data
update_option('cff_locale', $cff_locale );
                              // (...)
```

The wp_ajax_cff_save_settings AJAX action, which is responsible for updating the plugin's inner settings, did not perform any privilege or nonce checks before doing so. This made it possible for any logged-in users to call this action and update any of the plugin's settings.

Unfortunately, one of these settings, <code>customJs</code> , enables administrators to store custom JavaScript on their site's posts and pages. Updating this setting is all it would've taken for a bad actor to store malicious scripts on the site.

Timeline

2021-10-14 – Initial contact with Smash Balloon 2021-10-18 – We send them details about these vulnerabilities

2021-10-21 - Smash Balloon Social Post Feed 4.0.1 is released

Conclusion

We recommend that you check which version of the Smash Balloon Social Post Feed plugin your site is using, and if it is less than 4.0.1, update it as soon as possible!

At Jetpack, we work hard to make sure your websites are protected from these types of vulnerabilities. We recommend that you have a security plan for your site that includes malicious file scanning and backups. Jetpack Security is one great WordPress security option to ensure your site and visitors are safe.

Credits

Original researcher: Marc Montpas

Thanks to the rest of the Jetpack Scan team for feedback, help, and corrections.

This entry was posted in <u>Security</u>, <u>Vulnerabilities</u> and tagged <u>Jetpack</u>, <u>Security</u>, <u>Vulnerabilities</u>. Bookmark the <u>permalink</u>



Marc Montpas

Marc's interests led him to work in the trenches of cybersecurity for the better part of the last decade, notably at companies like Sucuri and GoDaddy. His journey led him to uncover several high-impact security issues while auditing open-source platforms, like WordPress. He's an avid Hacker Capture The Flag player and loves to hypothesize new attack vectors.

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