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#### Article

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# Marmind XSS

A Stored Cross-Site Scripting (XSS) vulnerability in the "Marmind" web application with version 4.1.14 .0. allows in a tatacker to inject code that will later be executed by legitimate users when they open the assets containing the JavaScript code. This would allow an attacker to perform unauthorized actions in the application on behalf of legitimate users or spread malware via the application. By using the "Assets Upload" function, an attacker can abuse the upload function to upload a malicous PDF file containing a stored XS3. The vulnerability was reported as CVE-2020-26505. Alle Cookies akzeptieren

# Background

We discovered a security issue in the "Marmind" web application. It is possible to inject JavaScript code within the "Assets Upload" function of the product due to a lack of sufficient input filtering. An attacker can inject malicious file containing JavaScript code that will later be executed by legitimate users who open the malicious files. An attacker may perform unauthorized actions on behalf of legitimate users or spread malware via the application. Additionally if a user opens the PDF, their PDF renderer could send a request to the attacker, revealing their IP address, and by extension, their location.

### Steps to Reproduce

The application performs limited filtering of XSS. However by using PDF with embedded JavaScript code in it, we were able to bypass it. The filtering is based on a blackist approach and not all payloads are recognized. We used the build-in app-alertly function for javaScript in PDFs to circumvent the protection. This results in a successful Scrook SSS. The following pictures show how were able to exploit the vulnerability.

### Root Cause

This issue exists due to insufficient input filtering of the files uploaded by the "Assets Upload" function. In order to mitigate the issue, we recommend applying input filtering to all uploaded files in the entire application to ensure that only valid content is processed (this means input filtering for the fields as well as for the field values). We also recommend ensuring the library used for rendering is robust, as it will be parsing potentially malicious content on the server side. Additionally, setting up a sandbowed environment could further help to reduce the attack surface.

### Fix/ Producer Statement

The issue was reported to Marmind. The identified business threat was evaluated and does not pose a high security threat to the Marmind users.

The Chrome PDF-preview viewer is sandboxed and most of the browsers block the execution of JavaScript code in a PDF-preview mode. The PDF itself only supports a specific set of JavaScript code that can be embedded as the one used in the example above.

The PDF specifications at http://partners.adobe.com/public/developer/en/acrobat/sdlv5186AcrojS.pdf lays out that the set of JavaScript objects, where PDFium supports a subset of those objects. PDFium stubs out the dangerous objects and methods listed in the above PDF specifications by Adobe where only triggering the alertly function is still permitted because it should not pose a threat to the end users. Through the XSS vulnerability, no cookies reher private data were alertly function is cookies.

# Credit

Credit for finding and reporting the issue:
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Christian ist Director im Bereich Cyber Defense und Managed Security Service mit mehr als 20 Jahren umfassender praktischer Erfahrung im Bereich Cybersicherheit. Sein Fokus liegt auf der Entwicklung u... Mehr

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