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## Tiny Java Web Server 1.115 Cross Site Scripting

Authored by Maurizio Ruchay | Site syss.de

Posted Aug 14, 2021

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

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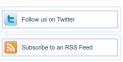
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(TJNS)
Manufacture:
Affected Versions:
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CVE Reference: D. Rogatkin <= 1.115 1.107, 1.114 Cross-Site Scripting (CWE-79) Medium Fixed 2021-07-23 2021-07-23 2021-08-08 CVE-2021-37573 Maurizio Ruchay, SySS GmbH verview: 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 /te33cimg\$20src=x\$20onerror=alert(42)\$3Est HTTP/1.1
[...]
Connection: close HTTP response: HTTP/1.1 404 te<img src=x onerror=alert(42)>st not found server: D. Rogatkin's TJWS (+Android, JSR340, JSR356) https://github.com/drogatkin/TJWS2.git/Version 1.114 <HTML><HEAD><TITLE>404 te<img src=x onerror=alert(42)>st not found</TITLE></HEAD><BODY BGCOLOR="#D1E9FE"> [...]
<H2>404 te<img src=x onerror=alert(42)>st 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 [1] Product website for Tiny Java Web Server and Servlet Container (TJWS): http://tjws.sourceforge.net/
[2] Patch release on Github: https://github.com/drogatkin/TJWS2/releases/tag/v1.116
[3] SySS Responsible Disclosure Policy https://www.syss.de/en/responsible-disclosure-policy Credits: This security vulnerability was found by Maurizio Ruchay of SySS GmbH. E-Mail: maurizio.ruchay@syss.de Public Key: https://www.syss.de/fileadmin/dokumente/PGFKeys/Maurizio\_Ruchay.asc Key ID: 0xc7D202247F07A978 Key Jingseprint: D506 AB5A FEJE 05AE FFBE DEB2 C7D2 0E26 7F0F A978 The information provided in this security advisory is provided "as is" and without warranty of any kind. Details of this security advisory may be updated in order to provide as accurate information as possible. The latest version of this security advisory is available on the SySS Web site.



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