Talos Vulnerability Report

TALOS-2020-1081

OS4Ed openSIS login SQL injection vulnerability

AUGUST 31, 2020

CVE NUMBER

CVE-2020-6141

Summary

An exploitable SQL injection vulnerability exists in the login functionality of OS4Ed openSIS 7.3. A specially crafted HTTP request can lead to SQL injection. An attacker can send an HTTP request to trigger this vulnerability.

Tested Versions

OS4Ed openSIS 7.3

Product URLs

https://opensis.com/

CVSSv3 Score

9.8 - CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:H/I:H/A:H

CWE

CWE-89 - Improper Neutralization of Special Elements used in an SQL Command ('SQL Injection')

Details

openSIS is a student information system and school management system. It is available in commercial and open-source versions. It allows schools to create schedules and track attendance, grades and transcripts.

The following parameters are vulnerable to unauthenticated SQL injection attacks:

USERNAME parameter in /opensis/index.php:

```
POST /opensis/index.php HTTP/1.1
Host: [IP]
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:74.0) Gecko/20100101 Firefox/74.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-GB,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 30
Origin: http://[IP]
DNT: 1
Connection: close
Referer: http://[IP]/opensis/index.php?modfunc=logout&ins=comp
Upgrade-Insecure-Requests: 1

USERNAME=123[SQL INJECTION]&PASSWORD=123&log=
```

The vulnerable code for opensis/index.php is at line 117 is due to a lack of input sanitation leading:

Timeline

2020-06-02 - Vendor Disclosure

2020-08-13 - Vendor provided patch to Talos for testing

2020-08-17 - Talos confirmed patch resolved issue

2020-08-31 - Public Release

CREDIT

Discovered by Yuri Kramarz of Cisco Talos.

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