

Talos Vulnerability Report

TALOS-2020-1078

OS4Ed openSIS Validator.php SQL injection vulnerability

AUGUST 31, 2020

CVE NUMBER

CVE-2020-6135

Summary

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

Tested Versions

OS4Ed openSIS 7.3

Product URLs

<https://opensis.com/>

CVSSv3 Score

6.4 - CVSS:3.0/AV:N/AC:L/PR:L/UI:N/S:C/C:L/I:L/A:N

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 stfid parameter in the page Validator.php is vulnerable to SQL injection.

Below is an example request that will trigger the vulnerability:

```
GET /opensis/Validator.php?u=123456&stfid=1[SQLINJECTION]&password=1&validate=pass 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: */*
Accept-Language: en-GB,en;q=0.5
Accept-Encoding: gzip, deflate
X-Requested-With: XMLHttpRequest
DNT: 1
Connection: close
Referer: http://[IP]/opensis/Modules.php?modname=schoolsetup/Schools.php&modfunc=update
Cookie: miniSideBar=0; PHPSESSID=6chg16qcanbg3adrqlq6sm6fa3
```

The vulnerable code for this parameter is at line 41:

```
30     include 'Warehouse.php';
31         $flag = $_GET['u'];
32     $usr = substr($flag, -4);
33
34     // ----- For Unique Checking ----- //
35     $un = substr($flag, 0, -4);
36     $un = strtoupper($un);
37     // ----- For Unique Checking ----- //
38     switch ($_GET['validate'])
39     {
40         case 'pass':
41             $res_pass_chk = DBQuery("SELECT * FROM login_authentication WHERE password = '".md5($_GET['password'])."' AND
user_id!='".$_GET['stfid']."' AND profile_id=0");
42             $num_pass = $res_pass_chk->num_rows;
43             if($num_pass==0)
44             {
45                 echo 1;
46             }
47             break;
48
49
```

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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