### Talos Vulnerability Report

TALOS-2020-1077

# OS4Ed openSIS id parameter multiple SQL injection vulnerabilities

AUGUST 31, 2020

CVE NUMBER

CVE-2020-6132, CVE-2020-6133, CVE-2020-6134

Summary

Multiple exploitable SQL injection vulnerabilities exist in the ID parameters of OS4Ed openSIS 7.3 pages. A specially crafted HTTP request can lead to SQL injection. An attacker can make an authenticated HTTP request to trigger these vulnerabilities.

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.

### CVE-2020-6132 - ChooseCP.php

The id parameter in the page ChooseCP.php is vulnerable to SQL injection.

Below is an example request that will trigger the vulnerability:

```
GET /opensis/ChooseCP.php?down_id=16filename=16table_name=courses&id=1[SQLINJECTION] 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 37:

# CVE-2020-6133 - CourseMoreInfo.php

The id parameter in the page CourseMoreInfo.php is vulnerable to SQL injection.

Below is an example request that will trigger the vulnerability:

```
GET /opensis/CourseMoreInfo.php?id=1[SQLINJECTION] 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: 0
Origin: http://[IP]
DNT: 1
Connection: close
Referer: http://[IP]/opensis/Modules.php?modname=eligibility/Student.php&modfunc=add&start_date=
Cookie: miniSidebar=0; PHPSESSID=6chg16qcanbg3adrqlq6sm6fa3
Upgrade-Insecure-Requests: 1
```

The vulnerable code for this parameter is at line 47:

```
$ $sql = 'SELECT

$ $.COURSE_ID, $.COURSE_PERIOD_ID,
$ $.MARKING_PERIOD_ID, $.START_DATE, $.END_DATE, $.MODIFIED_DATE, $.MODIFIED_BY,
$ $.MARKING_PERIOD_ID, $.START_DATE, $.START_EPOCH,UNIX_TIMESTAMP($.END_DATE) AS END_EPOCH, $p.PERIOD_ID,
$ $cpv.PERIOD_ID, $.MARKING_PERIOD_ID AS START_EPOCH,UNIX_TIMESTAMP($.END_DATE) AS END_EPOCH, $p.PERIOD_ID,
$ $cpv.PERIOD_ID, $.MARKING_PERIOD_ID AS PERIOD_PULLDOWN,
$ $.STUDENT_ID, $.TITLE AS ROOM, (SELECT GROUP_CONCAT(cpv.DAYS) FROM course_period_var cpv WHERE
$ $.STUDENT_ID, $.TITLE AS ROOM, (SELECT GROUP_CONCAT(cpv.DAYS) FROM course_period_var cpv WHERE
$ $.COURSE_PERIOD_ID = cp.COURSE_PERIOD_ID) as DAYS, $SCHEDULER_LOCK, $concat(st.LaST_NAM E, \'' . ' ' ' ' ' ', 'st.FIRST_NAME) AS MODIFIED_NAME

### ROOM courses c, course_period_var cpv, rooms r, school_periods sp, schedule s

### LEFT JOIN staff st ON s.MODIFIED_BY = st.STAFF_ID

### WHERE

### 2 $.COURSE_ID = c.COURSE_ID AND s.COURSE_ID = cp.COURSE_ID

### AND cp.COURSE_PERIOD_ID=cpv.COURSE_PERIOD_ID

### AND r.ROOM_ID=cpv.ROOM_ID

### AND s.COURSE_PERIOD_ID=cpv.COURSE_PERIOD_ID

### AND s.COURSE_PERIOD_ID = cp.COURSE_PERIOD_ID

### AND
```

#### CVE-2020-6134 - MassDropModal.php

The id parameter in the page MassDropModal.php is vulnerable to SQL injection.

Below is an example request that will trigger the vulnerability:

```
GET /opensis/MassDropModal.php?table_name=course_periods&id=1[SQLINJECTION] 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: 0
Origin: http://[IP]
DNT: 1
Connection: close
Referer: http://[IP]/opensis/Modules.php?modname=eligibility/Student.php&modfunc=add&start_date=
Cookie: miniSidebar=0; PHPSESSID=6chg16qcanbg3adrqlq6sm6fa3
Upgrade-Insecure-Requests: 1
```

The vulnerable code for this parameter is at line 35:

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.

VULNERABILITY REPORTS PREVIOUS REPORT NEXT REPORT

TALOS-2020-1076 TALOS-2020-1078

© 2022 Cisco Systems, Inc. and/or its affiliates. All rights reserved. View our Privacy Policy.