

# Tenda AX12 Unauthorized stack overflow vulnerability

## 1. Affected version:

v22.03.01.21\_cn

## 2. Firmware download address

<https://www.tenda.com.cn/download/detail-3237.html>

## 3. Vulnerability details

The function ``sub_4151AC(a1,(int)"ssid","");`` called ``sprintf((init)v21,"%s_5g",v2)``, and the function did not judge the length of the string when formatting the output. There are potential vulnerabilities.

Login to tenda, set the network name in `Wireless Name and Password`



ssid is the wireless name

访客网络: ☐

2.4G网络名称:

5G网络名称:

访客网络密码:

有效时长:

访客共享网速:  兆 (Mbps)

保存

Set `2.4G network name`, use packet capture to capture, modify the name, and get the page response, Denial of service occurs on the page, and the emulator can implement arbitrary write operations.



#### 4. Recurring vulnerabilities and POC

In order to reproduce the vulnerability, the following steps can be followed

```
Post / goform/ wifiBasicset HTTP/1.1Host: 192.168.83.129
User-agent: Mozilla/5.0 (Windows wT 10.0; Win64; x64; rv:91.0) Gecko/20100101
Firefox/91.0Accept: */*
Accept-Language: zh-CN,zh; q=0.8,zh-Tw;q=0.7,zh-HK ; q=0.5, en-US;
q=0.3,en;q=0.2Accept-Encoding: gzip, deflate
content-Type: application/x-www-form-urlencoded;
charset=UTF-8x-Requested-with : XMLHttpRequest
content-Length: 165
```

