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Tenda AC21(V16.03.08.15) contains Stack Buffer Overflow Vulnerability

overview

- Manufacturer's website information: <https://www.tenda.com.cn/>
- Firmware download address: <https://www.tenda.com.cn/download/detail-3419.html>

product information

Tenda A21(V16.03.08.15), latest version of simulation overview:

AC21 升级软件 V16.03.08.15

立即下载

关联产品: AC21 更新日期: 2022/7/4

AC21V1.0升级说明
硬件版本: V1.0

description

1. Vulnerability Details

Tenda AC21(V16.03.08.15) contains a stack overflow vulnerability in file `/bin/httpd`, function `fromSetWifiGusetBasic`

Attacker can use this vulnerability via the `shareSpeed` parameter.

```
memset(v15, 0, 0x100u);  
tdSyslog(1, "WiFi Guest Set");  
v1 = wifi_get_mibname("wlan0", "workmode", v15);  
GetValue(v1, v8);  
v2 = wifi_get_mibname("wlan1", "workmode", v15);  
GetValue(v2, v9);  
GetValue("bandwidth.mode.listnum", v10);  
v7 = (const char *)websGetVar(a1, "shareSpeed", "0");  
strcpy((char *)v12, v7); // 1  
v4 = sub_462E70(a1),  
if ( !strcmp((const char *)v8, "ap")
```

it calls `strcpy(v12, v7)` and `v12` is on the stack, so there is a stack buffer overflow vulnerability.

2. Recurring loopholes and POC

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

1. Boot the firmware by qemu-system or other ways (real machine)
2. Attack with the following POC attacks

