Vendor of the products: TP-Link

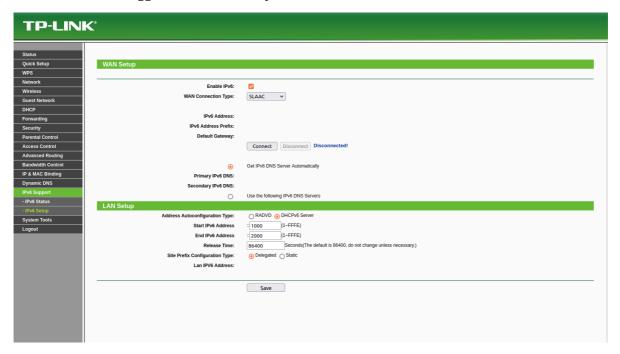
Affected products: TL-WR841ND V11

Hardware Link: https://www.tp-link.com/us/support/download/tl-wr841nd/v11/#Firmware

Vulnerability Description

A buffer overflow vulnerability was discovered in TP-Link TL-WR841ND V11, triggered by the dnsserver1 and dnsserver2 parameters at /userRpm/WanSlaacCfgRpm.htm. This vulnerability allows attackers to cause a Denial of Service (DoS) via a crafted packet.

The interface that triggers the vulnerability



POC

send

You can see that the router has crashed.

Unable to connect

Firefox can't establish a connection to the server at 192.168.0.1.

- The site could be temporarily unavailable or too busy. Try again in a few moments.
- If you are unable to load any pages, check your computer's network connection.
- If your computer or network is protected by a firewall or proxy, make sure that Firefox is permitted to access
 the web.

Try Again

Code in httpd

By using IDA to analyze httpd, the program first calls httpGetEnv to retrieve the dnsserver1 and dnsserver2 parameters.

```
100
        v9 = httpGetEnv(a1, "dnsserver1");
101
        strcpy(&v32[1], v9, v8, v7);
102
 103
        else
104
          memset(&v32[1], 0, 45);
0 105
        v12 = httpGetEnv(a1, "dnsserver2");
106
        if ( v12 )
107
          strcpy((char *)&v32[12] + 1, v12, v11, v10);
 108
        else
```

The parameters are then passed to the strcpy function without proper security checks, leading to a buffer overflow.