Vendor of the products: Tenda

Affected products: Tenda RX3 US\_RX3V1.0br\_V16.03.13.11\_multi\_TDE01

Hardware Link: <a href="https://www.tendacn.com/tw/download/detail-3980.html">https://www.tendacn.com/tw/download/detail-3980.html</a>

## **Vulnerability Description**

A buffer overflow vulnerability was discovered in Tenda RX3 US\_RX3V1.0br\_V16.03.13.11\_multi\_TDE01, triggered by the firewallEn parameter at /goform/SetFirewallCfg. This vulnerability allows attackers to cause a Denial of Service (DoS) via a crafted packet.

## POC

send



You can see that the router has crashed.

```
func:cfms_mib_proc_handle, line:203 connect cfmd is error.
connect: No such file or directory
func:cfms_mib_proc_handle, line:203 connect cfmd is error.
connect: No such file or directory
func:cfms_mib_proc_handle, line:203 connect cfmd is error.
zsh: segmentation fault sudo chroot ./ ./qemu-arm-static ./bin/httpd
```

## Code in httpd

n the <code>formSetFirewallCfg</code> function, the value of <code>firewalEn</code> is retrieved and stored into <code>v4</code>. Subsequently, the value is copied into <code>firewall\_buf</code> using <code>strcpy</code> without performing any safety checks, leading to a buffer overflow vulnerability.