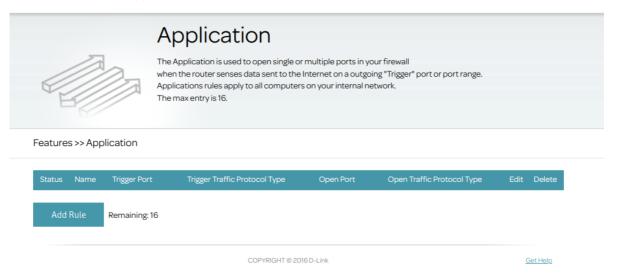
Vendor of the products: D-Link

Affected products: DSL-3782 v1.01

Vulnerability Description

An OS command injection vulnerability was discovered in D-Link DSL-3782 v1.01, triggered by the public_type parameter. This vulnerability allows attackers to execute arbitrary operating system (OS) commands via a crafted packet.

The interface that triggers the vulnerability



POC

send

You can see the Telnet service has been successfully started and connected, which could potentially lead to a complete compromise of the application and all its data, exposing it to severe security risks.

```
-$ telnet 192.168.1.1 9993
Trying 192.168.1.1...
Connected to 192.168.1.1.
Escape character/is '^]'.
#ls
                        linuxrc
bin
                                     sbin
                                                 usr
            firmadyne
                        lost+found tmp
boaroot
                                                  var
            lib
                                     userfs
dev
                        proc
```

Code in cfg_manager

By using IDA to analyze cfg_manager, the program first calls the getAttrValue function to retrieve the OProtocol parameter. Although there are security checks, they are not thorough and can be bypassed.

The concatenated content is then written to the porttrigger file, which is ultimately executed.

Therefore, the attacker can craft specific inputs via these parameters to carry out an OS command injection attack.