

# CVE-2025-0116 PAN-OS FIREWALL DENIAL OF SERVICE (DOS) USING A SPECIALLY CRAFTED LLDP FRAME

# **Vairav CVE Report**

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**EXECUTIVE SUMMARY** 

Palo Alto Networks has disclosed a medium-severity vulnerability (CVE-2025-0116)

affecting PAN-OS, the operating system powering their network security appliances. This

vulnerability allows an unauthenticated, adjacent attacker to cause a firewall reboot using

specially crafted LLDP frames, potentially leading to a denial-of-service (DoS) condition.

Organizations relying on PAN-OS should immediately apply security updates or implement

recommended mitigations.

**VULNERABILITY DETAILS** 

CVE-2025-0116: PAN-OS Firewall Denial of Service (DoS) Using a Specially

**Crafted LLDP Frame** 

**Description:** This vulnerability arises due to improper handling of specially crafted Link

Layer Discovery Protocol (LLDP) frames. If an attacker on an adjacent network sends such

frames to a vulnerable firewall, it can trigger an unexpected reboot, potentially disrupting

network operations. If repeated, this could force the firewall into maintenance mode,

leading to prolonged downtime.

**Impact:** Unauthenticated attackers can disrupt firewall operations, causing service

outages and affecting business continuity.

CVSS Score: 6.8 (Medium)

AFFECTED VERSIONS

PAN-OS versions:

11.2.0 through 11.2.4

• 11.1.0 through 11.1.7

10.2.0 through 10.2.13

• 10.1.0 through 10.1.14

**EXPLOIT DETAILS** 

Attackers can exploit this flaw by sending specially crafted LLDP frames to a vulnerable

PAN-OS firewall with LLDP enabled. The attacker can trigger a firewall reboot if LLDP is

enabled on at least one network interface and configured in "transmit-receive" or "receive-



only" mode. Continued exploitation can force the firewall into maintenance mode, requiring manual recovery. No public exploits have been reported yet.

### **RECOMMENDED ACTIONS**

### Patch & Upgrade:

 Palo Alto Networks has released fixed versions. Organizations should upgrade to PAN-OS 11.2.5, 11.1.8, 10.2.14, or 10.1.14-h11 as soon as possible.

### **ADDITIONAL SECURITY MEASURES**

- **Disable LLDP**: If LLDP is not required, disable it under Network > LLDP in the web interface.
- Disable LLDP on Interfaces: Disable LLDP for specific interfaces under Network > Interfaces > Advanced > LLDP.
- **Set LLDP Mode to Transmit-Only**: If LLDP is needed for advertising purposes, configure it in "transmit-only" mode under Network > Network Profiles > LLDP Profile.

### **REFERENCES**

https://app.opencve.io/cve/CVE-2025-0116

https://security.paloaltonetworks.com/CVE-2025-0116

https://www.cve.org/CVERecord?id=CVE-2025-0116

https://nvd.nist.gov/vuln/detail/CVE-2025-0116



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