



# net: vlan: fix VLAN 0 refcount imbalance of toggling filtering during runtime

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

## Summary

<b>CVE</b>	CVE-2025-38470
<b>State</b>	PUBLISHED
<b>Assigner</b>	Linux
<b>Source Priority</b>	CVE Program / NVD first with legacy fallback
<b>Published</b>	2025-07-28 12:15:28 UTC
<b>Updated</b>	2026-05-12 13:16:50 UTC

**Description** In the Linux kernel, the following vulnerability has been resolved: net: vlan: fix VLAN 0 refcount imbalance of toggling filterin

## Risk And Classification

**Primary CVSS:** v3.1 5.5 MEDIUM from nvd@nist.gov

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H

**Problem Types:** NVD-CWE-Other

## CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

None

Integrity

None

Availability

High

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:N/I:N/A:H

## NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	All	All	All	All

## Vendor Declared Affected Products

Source	Vendor	Product	Version
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f ba48d3993af2
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f 35142b38168
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f 047b61a24d7
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f d43ef15bf485
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f bb515c41306
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f 8984bcbdded
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f 93715aa2d80
CNA	Linux	Linux	affected ad1afb00393915a51c21b1ae8704562bf036855f 579d4f9ca9a9
CNA	Linux	Linux	affected 2.6.36
CNA	Linux	Linux	unaffected 2.6.36 semver
CNA	Linux	Linux	unaffected 5.4.297 5.4.* semver
CNA	Linux	Linux	unaffected 5.10.241 5.10.* semver
CNA	Linux	Linux	unaffected 5.15.190 5.15.* semver
CNA	Linux	Linux	unaffected 6.1.147 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.100 6.6.* semver
CNA	Linux	Linux	unaffected 6.12.40 6.12.* semver
CNA	Linux	Linux	unaffected 6.15.8 6.15.* semver
CNA	Linux	Linux	unaffected 6.16 * original_commit_for_fix
ADP	Siemens	SIMATIC S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518F-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIMATIC S7-1500 CPU 1518F-4 PN/DP MFP	affected V3.1.5 * custom
ADP	Siemens	SIPLUS S7-1500 CPU 1518-4 PN/DP MFP	affected V3.1.5 * custom

## References

Reference	Source	Link
lists.debian.org/debian-lts-announce/2025/10/msg00008.html	af854a3a-2127-422b-91ae-364da2661108	<a href="https://lists.debian.org">lists.debian.org</a>
git.kernel.org/stable/c/047b61a24d7c866c502ae482892969a68f216	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>
git.kernel.org/stable/c/35142b3816832889e50164d993018ea5810955ae	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org">git.kernel.org</a>

cert-portal.siemens.com/productcert/html/ssa-082556.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	<a href="https://cert-portal.siemens.com/productcert/html/ssa-082556.html">cert-portal.siemens.c</a>
git.kernel.org/stable/c/bb515c41306454937464da055609b5fb0a27821b	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org/stable/c/bb515c41306454937464da055609b5fb0a27821b">git.kernel.org</a>
git.kernel.org/stable/c/93715aa2d80e6c5cea1bb486321fc4585076928b	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org/stable/c/93715aa2d80e6c5cea1bb486321fc4585076928b">git.kernel.org</a>
git.kernel.org/stable/c/d43ef15bf4856c8c4c6c3572922331a5f06deb77	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org/stable/c/d43ef15bf4856c8c4c6c3572922331a5f06deb77">git.kernel.org</a>
git.kernel.org/stable/c/8984bcbd1edf5bee5be06ad771d157333b790c33	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org/stable/c/8984bcbd1edf5bee5be06ad771d157333b790c33">git.kernel.org</a>
git.kernel.org/stable/c/ba48d3993af23753e1f1f01c8d592de9c7785f24	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org/stable/c/ba48d3993af23753e1f1f01c8d592de9c7785f24">git.kernel.org</a>
lists.debian.org/debian-lts-announce/2025/10/msg00007.html	af854a3a-2127-422b-91ae-364da2661108	<a href="https://lists.debian.org/debian-lts-announce/2025/10/msg00007.html">lists.debian.org</a>
git.kernel.org/stable/c/579d4f9ca9a9a605184a9b162355f6ba131f678d	416baaa9-dc9f-4396-8d5f-8c081fb06d67	<a href="https://git.kernel.org/stable/c/579d4f9ca9a9a605184a9b162355f6ba131f678d">git.kernel.org</a>
CVE Program record	CVE.ORG	<a href="https://www.cve.org">www.cve.org</a>
NVD vulnerability detail	NVD	<a href="https://nvd.nist.gov">nvd.nist.gov</a>

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

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