



net_sched: cls_flow: validate TCA_FLOW_RSHIFT attribute

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

Summary

CVE	CVE-2025-21653
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2025-01-19 11:15:10 UTC
Updated	2026-05-12 13:16:30 UTC

Description In the Linux kernel, the following vulnerability has been resolved: net_sched: cls_flow: validate TCA_FLOW_RSHIFT attrib

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-noinfo

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 e5dfb815181fcb186d6080ac3a091eadff2d98fe 9858f4af
CNA	Linux	Linux	affected e5dfb815181fcb186d6080ac3a091eadff2d98fe 43658e4
CNA	Linux	Linux	affected e5dfb815181fcb186d6080ac3a091eadff2d98fe a313d6e
CNA	Linux	Linux	affected e5dfb815181fcb186d6080ac3a091eadff2d98fe 2011749
CNA	Linux	Linux	affected e5dfb815181fcb186d6080ac3a091eadff2d98fe e54beb9
CNA	Linux	Linux	affected e5dfb815181fcb186d6080ac3a091eadff2d98fe 6fde663f
CNA	Linux	Linux	affected e5dfb815181fcb186d6080ac3a091eadff2d98fe a039e54
CNA	Linux	Linux	affected 2.6.25
CNA	Linux	Linux	unaffected 2.6.25 semver
CNA	Linux	Linux	unaffected 5.4.290 5.4.* semver
CNA	Linux	Linux	unaffected 5.10.234 5.10.* semver
CNA	Linux	Linux	unaffected 5.15.177 5.15.* semver
CNA	Linux	Linux	unaffected 6.1.125 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.72 6.6.* semver
CNA	Linux	Linux	unaffected 6.12.10 6.12.* semver
CNA	Linux	Linux	unaffected 6.13 * original_commit_for_fix
ADP	Siemens	SIMATIC S7-1500 TM MFP - BIOS	affected * custom
ADP	Siemens	SIMATIC S7-1500 TM MFP - GNU/Linux Subsystem	affected * custom

References

Reference	Source	Link
cert-portal.siemens.com/productcert/html/ssa-503939.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.cc
git.kernel.org/stable/c/6fde663f7321418996645ee602a473457640542f	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
lists.debian.org/debian-lts-announce/2025/03/msg00002.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
cert-portal.siemens.com/productcert/html/ssa-265688.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.cc
git.kernel.org/stable/c/a313d6e6d5f3a631cae5a241c392c28868aa5c5e	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
lists.debian.org/debian-lts-announce/2025/03/msg00001.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
git.kernel.org/stable/c/e54beb9aed2a90ddd4c5d68f9a01f3e40a61	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/2011749ca96460386844dfc7e0fde53beee96f3c	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org

git.kernel.org/stable/c/a039e54397c6a75b713b9ce7894a62e06956aa92	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/9858f4afeb2e59506e714176bd3e135539a3eeec	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/43658e4a5f2770ad94e93362885ff51c10cf3179	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
CVE Program record	CVE.ORG	www.cve.org
NVD vulnerability detail	NVD	nvd.nist.gov

No vendor comments have been submitted for this CVE.

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

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