



ext4: inline: fix len overflow in ext4_prepare_inline_data

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF !\[\]\(003082e50e3009141f59bd5df831749f_img.jpg\)](#)

Summary

CVE	CVE-2025-38222
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2025-07-04 14:15:30 UTC
Updated	2026-05-12 13:16:44 UTC

Description In the Linux kernel, the following vulnerability has been resolved: ext4: inline: fix len overflow in ext4_prepare_inline_data V

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: CWE-190

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 f19d5870cbf72d4cb2a8e1f749dff97af99b071e d3dfc60efd145c
CNA	Linux	Linux	affected f19d5870cbf72d4cb2a8e1f749dff97af99b071e 717414a8c083c
CNA	Linux	Linux	affected f19d5870cbf72d4cb2a8e1f749dff97af99b071e 9d1d1c5bf4fc1a
CNA	Linux	Linux	affected f19d5870cbf72d4cb2a8e1f749dff97af99b071e cf5f319a2d8ab8
CNA	Linux	Linux	affected f19d5870cbf72d4cb2a8e1f749dff97af99b071e 26e09d18599de
CNA	Linux	Linux	affected f19d5870cbf72d4cb2a8e1f749dff97af99b071e 5766da2237e53
CNA	Linux	Linux	affected f19d5870cbf72d4cb2a8e1f749dff97af99b071e e80ee0263d88c
CNA	Linux	Linux	affected f19d5870cbf72d4cb2a8e1f749dff97af99b071e 227cb4ca5a650
CNA	Linux	Linux	affected 3.8
CNA	Linux	Linux	unaffected 3.8 semver
CNA	Linux	Linux	unaffected 5.4.295 5.4.* semver
CNA	Linux	Linux	unaffected 5.10.239 5.10.* semver
CNA	Linux	Linux	unaffected 5.15.186 5.15.* semver
CNA	Linux	Linux	unaffected 6.1.142 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.95 6.6.* semver
CNA	Linux	Linux	unaffected 6.12.35 6.12.* semver
CNA	Linux	Linux	unaffected 6.15.4 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
git.kernel.org/stable/c/cf5f319a2d8ab8238f8cf3a19463b9bff6420934	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
lists.debian.org/debian-lts-announce/2025/10/msg00008.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
cert-portal.siemens.com/productcert/html/ssa-082556.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.com
git.kernel.org/stable/c/9d1d1c5bf4fc1af76be154d3afb2acdbd89ec7d8	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org

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git.kernel.org/stable/c/e80ee0263d88d77f2fd1927f915003a7066cbb50	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/5766da2237e539f259aa0e5f3639ae37b44ca458	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/717414a8c083c376d4a8940a1230fe0c6ed4ee00	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/26e09d18599da0adc543eabd300080daaeda6869	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
lists.debian.org/debian-lts-announce/2025/10/msg00007.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
git.kernel.org/stable/c/d3dfc60efd145df5324b99a244b0b05505cde29b	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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