



software node: Correct a OOB check in software_node_get_reference_args()

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

Summary

CVE	CVE-2025-38342
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2025-07-10 09:15:29 UTC
Updated	2026-05-12 13:16:48 UTC

Description In the Linux kernel, the following vulnerability has been resolved: software node: Correct a OOB check in software_node_get

Risk And Classification

Primary CVSS: v3.1 7.1 HIGH from nvd@nist.gov

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

Problem Types: CWE-125

CVSS v3.1 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

High

Integrity

None

Availability

High

CVSS:3.1/AV:L/AC:L/PR:L/UI:N/S:U/C:H/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 59abd83672f70cac4b6bf9b237506c5bc6837606 142acd739eb
CNA	Linux	Linux	affected 59abd83672f70cac4b6bf9b237506c5bc6837606 56ce76e8d40
CNA	Linux	Linux	affected 59abd83672f70cac4b6bf9b237506c5bc6837606 9324127b07d
CNA	Linux	Linux	affected 59abd83672f70cac4b6bf9b237506c5bc6837606 f9397cf7bfb68
CNA	Linux	Linux	affected 59abd83672f70cac4b6bf9b237506c5bc6837606 4b3383110b6
CNA	Linux	Linux	affected 59abd83672f70cac4b6bf9b237506c5bc6837606 7af18e42bdef
CNA	Linux	Linux	affected 59abd83672f70cac4b6bf9b237506c5bc6837606 31e4e12e0e9
CNA	Linux	Linux	affected 5.0
CNA	Linux	Linux	unaffected 5.0 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
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.cc
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git.kernel.org/stable/c/9324127b07dde8529222dc19233aa57ec810856c	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
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git.kernel.org/stable/c/56ce76e8d406cc72b89aee7931df5cf3f18db49d	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
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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