



net/mdiobus: Fix potential out-of-bounds read/write access

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

Summary

CVE	CVE-2025-38111
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2025-07-03 09:15:24 UTC
Updated	2026-05-12 13:16:43 UTC

Description In the Linux kernel, the following vulnerability has been resolved: net/mdiobus: Fix potential out-of-bounds read/write access

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 080bb352fad00d04995102f681b134e3754bfb6e 19c5875e26c
CNA	Linux	Linux	affected 080bb352fad00d04995102f681b134e3754bfb6e 014ad921037
CNA	Linux	Linux	affected 080bb352fad00d04995102f681b134e3754bfb6e 73d478234a6
CNA	Linux	Linux	affected 080bb352fad00d04995102f681b134e3754bfb6e bab6bca0834
CNA	Linux	Linux	affected 080bb352fad00d04995102f681b134e3754bfb6e b02d9d27324
CNA	Linux	Linux	affected 080bb352fad00d04995102f681b134e3754bfb6e 049af7ac45a6
CNA	Linux	Linux	affected 080bb352fad00d04995102f681b134e3754bfb6e 0e629694126
CNA	Linux	Linux	affected 5.6
CNA	Linux	Linux	unaffected 5.6 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 6.6.94 6.6.* semver
CNA	Linux	Linux	unaffected 6.12.34 6.12.* semver
CNA	Linux	Linux	unaffected 6.15.3 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
git.kernel.org/stable/c/b02d9d2732483e670bc34cb233d28e1d43b15da4	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.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/bab6bca0834cbb5be2a7cfe59ec6ad016ec72608	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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