iommu: Return right value in iommu_sva_bind_device()

MITRE | NVD | CVE.ORG | JSON API | Print: PDF

Summary

CVE	CVE-2024-40945
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2024-07-12 13:15:16 UTC
Updated	2026-05-12 12:17:00 UTC
Description	In the Linux kernel, the following vulnerability has been resolved: iommu: Return right value in iommu_sva_bind_device() io

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-476

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 26b25a2b98e45aeb40eedcedc586ad5034cb
CNA	Linux	Linux	affected 26b25a2b98e45aeb40eedcedc586ad5034cb
CNA	Linux	Linux	affected 26b25a2b98e45aeb40eedcedc586ad5034cb
CNA	Linux	Linux	affected 26b25a2b98e45aeb40eedcedc586ad5034cb
CNA	Linux	Linux	affected 26b25a2b98e45aeb40eedcedc586ad5034cb
CNA	Linux	Linux	affected 26b25a2b98e45aeb40eedcedc586ad5034cb
CNA	Linux	Linux	affected 26b25a2b98e45aeb40eedcedc586ad5034cb
CNA	Linux	Linux	affected 5.2
CNA	Linux	Linux	unaffected 5.2 semver
CNA	Linux	Linux	unaffected 5.4.279 5.4.* semver
CNA	Linux	Linux	unaffected 5.10.221 5.10.* semver
CNA	Linux	Linux	unaffected 5.15.162 5.15.* semver
CNA	Linux	Linux	unaffected 6.1.129 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.35 6.6.* semver
CNA	Linux	Linux	unaffected 6.9.6 6.9.* semver
CNA	Linux	Linux	unaffected 6.10 * original_commit_for_fix
ADP	Siemens	RUGGEDCOM RST2428P	affected V3.1 custom
ADP	Siemens	RUGGEDCOM RST2428P	unaffected * custom
ADP	Siemens	SCALANCE XC-300/XR-300/XC-400/XR-500WG/XR-500 Family	unaffected * custom
ADP	Siemens	SCALANCE XC-300/XR-300/XC-400/XR-500WG/XR-500 Family	unaffected * custom
ADP	Siemens	SCALANCE XCM-/XRM-/XCH-/XRH-300 Family	affected V3.1 custom
ADP	Siemens	SCALANCE XCM-/XRM-/XCH-/XRH-300 Family	unaffected * custom
ADP	Siemens	SIMATIC S7-1500 TM MFP - GNU/Linux Subsystem	affected * custom

References

Reference	Source	Link
git.kernel.org/stable/c/89e8a2366e3bce584b6c01549d5019c5cda1205e	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
git.kernel.org/stable/c/7388ae6f26c0ba95f70cc96bf9c5d5cb06c908b6	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
git.kernel.org/stable/c/cf34f8f66982a36e5cba0d05781b21ec9606b91e	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
cert-portal.siemens.com/productcert/html/ssa-265688.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.cc

git.kernel.org/stable/c/6325eab6c108fed27f60ff51852e3eac0ba23f3f	416baaa9-dc9f-4396-8d5f-8c081fb06d67	git.kernel.org
git.kernel.org/stable/c/700f564758882db7c039dfba9443fe762561a3f8	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
cert-portal.siemens.com/productcert/html/ssa-613116.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.cc
git.kernel.org/stable/c/61a96da9649a6b6a1a5d5bde9374b045fdb5c12e	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
cert-portal.siemens.com/productcert/html/ssa-355557.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.cc
git.kernel.org/stable/c/2973b8e7d127754de9013177c41c0b5547406998	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
lists.debian.org/debian-lts-announce/2025/03/msg00028.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.