



ipv6: prevent possible NULL dereference in rt6_probe()

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

Summary

CVE	CVE-2024-40960
State	PUBLISHED
Assigner	Linux
Source Priority	CVE Program / NVD first with legacy fallback
Published	2024-07-12 13:15:18 UTC
Updated	2026-05-12 12:17:00 UTC
Description	In the Linux kernel, the following vulnerability has been resolved: ipv6: prevent possible NULL dereference in rt6_probe() sy

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 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 52e1635631b342803aecaf81a362c1464e3d
CNA	Linux	Linux	affected 2.6.17
CNA	Linux	Linux	unaffected 2.6.17 semver
CNA	Linux	Linux	unaffected 4.19.317 4.19.* 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 6.1.96 6.1.* semver
CNA	Linux	Linux	unaffected 6.6.36 6.6.* semver
CNA	Linux	Linux	unaffected 6.9.7 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/73e7c8ca6ad76f29b2c99c20845a6f3b203ff0c6	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
git.kernel.org/stable/c/1ed9849fdf9a1a617129346b11d2094ca26828dc	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.co
git.kernel.org/stable/c/b86762dbe19a62e785c189f313cda5b989931f37	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
git.kernel.org/stable/c/d66fc4826127c82f99c4033380f8e93833d331c7	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.co
cert-portal.siemens.com/productcert/html/ssa-355557.html	0b142b55-0307-4c5a-b3c9-f314f3fb7c5e	cert-portal.siemens.co
git.kernel.org/stable/c/51ee2f7c30790799d0ec30c0ce0c743e58f046f2	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
lists.debian.org/debian-lts-announce/2025/01/msg00001.html	af854a3a-2127-422b-91ae-364da2661108	lists.debian.org
git.kernel.org/stable/c/6eed6d3cd19ff3cfa83aeceed86da14abaf7417b	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
git.kernel.org/stable/c/f0cda984e4e634b221dbf9642b8ecc5b4806b41e	af854a3a-2127-422b-91ae-364da2661108	git.kernel.org
git.kernel.org/stable/c/569c9d9ea6648d099187527b93982f406ddcebc0	af854a3a-2127-422b-91ae-364da2661108	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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