CVE-2017-15102

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

Summary

CVE	CVE-2017-15102
State	PUBLISHED
Assigner	redhat
Source Priority	CVE Program / NVD first with legacy fallback
Published	2017-11-15 21:29:00 UTC
Updated	2025-04-20 01:37:25 UTC
Description	The tower_probe function in drivers/usb/misc/legousbtower.c in the Linux kernel before 4.8.1 allows local users (who are ph

Risk And Classification

Primary CVSS: v3.0 6.3 MEDIUM from nvd@nist.gov

CVSS:3.0/AV:P/AC:H/PR:L/UI:N/S:U/C:H/I:H/A:H

EPSS: 0.001100000 probability, percentile 0.289790000 (date 2026-05-13)

Problem Types: CWE-476 | race condition

Version	Source	Type	Score	Severity	Vector
3.0	nvd@nist.gov	Primary	6.3	MEDIUM	CVSS:3.0/AV:P/AC:H/PR:L/UI:N/S:U/C:H/I:H/A:H
2.0	nvd@nist.gov	Primary	6.9		AV:L/AC:M/Au:N/C:C/I:C/A:C

CVSS v3.0 Breakdown

Attack Vector

Physical

Attack Complexity

High

Privileges Required

Low

User Interaction

None

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

CVSS:3.0/AV:P/AC:H/PR:L/UI:N/S:U/C:H/I:H/A:H

CVSS v2.0 Breakdown

Access Vector

Local

Access Complexity

Medium

Authentication

None

Confidentiality

Complete

Integrity

Complete

Availability

Complete

AV:L/AC:M/Au:N/C:C/I:C/A:C

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Canonical	Ubuntu Linux	12.04	All	All	All
Operating System	Canonical	Ubuntu Linux	14.04	All	All	All
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Redhat	Enterprise Linux	5.0	All	All	All
Operating System	Redhat	Enterprise Linux	6.0	All	All	All

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Na	Linux Kernel Through Version 4.9-rc1	affected Linux kernel through version 4.9-rc1	Not specified

References

Reference
Linux Kernel CVE-2017-15102 Local Privilege Escalation Vulnerability
1505905 – (CVE-2017-15102) CVE-2017-15102 kernel: NULL pointer dereference due to race condition in probe function of legousbtower driv
USN-3583-2: Linux kernel (Trusty HWE) vulnerabilities | Ubuntu security notices
usb: misc: legousbtower: Fix NULL pointer deference · torvalds/linux@2fae9e5 · GitHub
oss-sec: CVE-2017-15102: Linux kernel: usb: NULL-deref due to a race condition in [legousbtower] driver

USN-3583-1: Linux kernel vulnerabilities | Ubuntu security notices
kernel/git/torvalds/linux.git - Linux kernel source tree
CVE Program record
NVD vulnerability detail

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

Free CVE JSON API cve.report/api

CVE.report and Source URL Uptime Status **status.cve.report**