



Linux Kernel Use-After-Free Vulnerability

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

Summary

CVE	CVE-2023-0266
State	PUBLIC
Assigner	security@google.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-01-30 14:15:00 UTC
Updated	2023-08-29 17:59:00 UTC
Description	A use after free vulnerability exists in the ALSA PCM package in the Linux Kernel. SND _{DRV} _CTL_IOCTL_ELEM_{READ W...

Risk And Classification

EPSS: 0.000970000 probability, percentile 0.268820000 (date 2026-04-01)

CISA KEV: Listed on 2023-03-30; due 2023-04-20; ransomware use Unknown

Problem Types: CWE-416

CISA Known Exploited Vulnerability

Vendor	Linux
Product	Kernel
Name	Linux Kernel Use-After-Free Vulnerability
Required Action	Apply updates per vendor instructions.
Notes	https://git.kernel.org/pub/scm/linux/kernel/git/stable/stable-queue.git/tree/queue-5.10/alsa-pcm-move-rwsem-lock-inside-snd_ctl_elem_read-to-prevent-uaf.patch?id=72783cf35e6c55bca84c4bb7b776c58152856fd4 ; https://nvd.nist.gov/vuln/detail/CVE-2023-0266

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Linux	Linux Kernel	All	All	All	All
Operating System	Linux	Linux Kernel	6.2	rc1	All	All
Operating System	Linux	Linux Kernel	6.2	rc2	All	All
Operating System	Linux	Linux Kernel	6.2	rc3	All	All

References

Reference

ALSA: control: code refactoring for ELEM_READ/ELEM_WRITE operations · torvalds/linux@becf9e5 · GitHub

[SECURITY] [DLA 3403-1] linux security update

alsa-pcm-move-rwsem-lock-inside-snd_ctl_elem_read-to-prevent-uaf.patch « queue-5.10 - kernel/git/stable/stable-queue.git - Linux kernel sta

ALSA: pcm: Move rwsem lock inside snd_ctl_elem_read to prevent UAF · torvalds/linux@56b88b5 · GitHub

CVE Program record

NVD vulnerability detail

CISA Known Exploited Vulnerabilities catalog

No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[160505](#) Oracle Enterprise Linux Security Update for unbreakable enterprise kernel (ELSA-2023-12196)

[160524](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2023-1470)

[160537](#) Oracle Enterprise Linux Security Update for kernel (ELSA-2023-1566)

[181491](#) Debian Security Update for linux (DSA 5324-1)

[181618](#) Debian Security Update for linux-5.10 (DLA 3349-1)

[181768](#) Debian Security Update for linux (DLA 3403-1)

[182961](#) Debian Security Update for linux (CVE-2023-0266)

[199208](#) Ubuntu Security Notification for Linux kernel (OEM) Vulnerabilities (USN-5915-1)

[199212](#) Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5917-1)

[199218](#) Ubuntu Security Notification for Linux kernel (Azure) Vulnerabilities (USN-5927-1)

[199224](#) Ubuntu Security Notification for Linux kernel (Raspberry Pi) Vulnerabilities (USN-5934-1)

[199226](#) Ubuntu Security Notification for Linux kernel (GCP) Vulnerabilities (USN-5939-1)

[199230](#) Ubuntu Security Notification for Linux kernel (Raspberry Pi) Vulnerabilities (USN-5940-1)

[199239](#) Ubuntu Security Notification for Linux kernel (IBM) Vulnerabilities (USN-5951-1)

[199251](#) Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5970-1)

[199258](#) Ubuntu Security Notification for Linux kernel (HWE) Vulnerabilities (USN-5979-1)

[199260](#) Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5982-1)

[199261](#) Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5984-1)

[199265](#) Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5987-1)

[199267](#) Ubuntu Security Notification for Linux kernel (GCP) Vulnerabilities (USN-5991-1)

199267	Ubuntu Security Notification for Linux kernel (OCI) Vulnerabilities (USN-6001-1)
199276	Ubuntu Security Notification for Linux kernel (BlueField) Vulnerabilities (USN-6000-1)
199280	Ubuntu Security Notification for Linux kernel (Intel IoTG) Vulnerabilities (USN-6004-1)
199300	Ubuntu Security Notification for Linux kernel (Qualcomm Snapdragon) Vulnerabilities (USN-6030-1)
199502	Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5975-1)
199541	Ubuntu Security Notification for Linux kernel (Azure) Vulnerabilities (USN-5924-1)
199570	Ubuntu Security Notification for Linux kernel Vulnerabilities (USN-5981-1)
199587	Ubuntu Security Notification for Linux kernel (GCP) Vulnerabilities (USN-6009-1)
241258	Red Hat Update for kernel security (RHSA-2023:1202)
241260	Red Hat Update for kernel-rt (RHSA-2023:1203)
241290	Red Hat Update for kpatch-patch (RHSA-2023:1435)
241293	Red Hat Update for kpatch-patch (RHSA-2023:1471)
241295	Red Hat Update for kernel-rt (RHSA-2023:1469)
241298	Red Hat Update for kernel security (RHSA-2023:1470)
241305	Red Hat Update for kernel security (RHSA-2023:1554)
241308	Red Hat Update for kernel-rt (RHSA-2023:1556)
241310	Red Hat Update for kernel-rt (RHSA-2023:1584)
241315	Red Hat Update for kernel (RHSA-2023:1557)
241316	Red Hat Update for kernel-rt (RHSA-2023:1560)
241324	Red Hat Update for kernel security (RHSA-2023:1566)
241327	Red Hat Update for kpatch-patch (RHSA-2023:1662)
241328	Red Hat Update for kpatch-patch (RHSA-2023:1659)
241329	Red Hat Update for kpatch-patch (RHSA-2023:1660)
241604	Red Hat Update for kernel (RHSA-2023:1588)
241606	Red Hat Update for kpatch-patch (RHSA-2023:1590)
241646	Red Hat Update for kernel (RHSA-2023:1559)
241674	Red Hat Update for kpatch-patch (RHSA-2023:1666)
378468	Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-20230042)
378473	Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX2-SA-2023:0021)

378512 Alibaba Cloud Linux Security Update for cloud-kernel (ALINUX3-SA-2023:0042)
610481 Google Android Devices May 2023 Security Patch Missing
610482 Google Pixel Android April 2023 Security Patch Missing
610485 Google Android May 2023 Security Patch Missing for Samsung
610487 Google Android May 2023 Security Patch Missing for Huawei EMUI
610493 Google Android June 2023 Security Patch Missing for Samsung
673117 EulerOS Security Update for kernel (EulerOS-SA-2023-2152)
753583 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0152-1)
753684 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0394-1)
753688 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0406-1)
753709 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0433-1)
753743 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0618-1)
753745 SUSE Enterprise Linux Security Update for the Linux Kernel (SUSE-SU-2023:0634-1)
755900 SUSE Enterprise Linux Security Update for the Linux-RT Kernel (SUSE-SU-2023:0488-1)
905357 Common Base Linux Mariner (CBL-Mariner) Security Update for hyperv-daemons (13156)
905373 Common Base Linux Mariner (CBL-Mariner) Security Update for hyperv-daemons (13190)
905387 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (13223)
905397 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (13229)
905539 Common Base Linux Mariner (CBL-Mariner) Security Update for hyperv-daemons (13190-1)
905948 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (13223-2)
906114 Common Base Linux Mariner (CBL-Mariner) Security Update for hyperv-daemons (13156-2)
906385 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (13229-2)
906594 Common Base Linux Mariner (CBL-Mariner) Security Update for hyperv-daemons (13156-4)
906597 Common Base Linux Mariner (CBL-Mariner) Security Update for kernel (13223-4)
940966 AlmaLinux Security Update for kernel (ALSA-2023:1470)
940967 AlmaLinux Security Update for kernel-rt (ALSA-2023:1469)
940970 AlmaLinux Security Update for kernel (ALSA-2023:1566)
940974 AlmaLinux Security Update for kernel-rt (ALSA-2023:1584)

960891 Rocky Linux Security Update for kernel-rt (RLSA-2023:1469)

960896 Rocky Linux Security Update for kernel (RLSA-2023:1470)

960903 Rocky Linux Security Update for kernel (RLSA-2023:1566)

960918 Rocky Linux Security Update for kernel-rt (RLSA-2023:1584)

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