



Google Chromium WebP Heap-Based Buffer Overflow Vulnerability

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

Summary

CVE	CVE-2023-4863
State	PUBLIC
Assigner	chrome-cve-admin@google.com
Source Priority	CVE Program / NVD first with legacy fallback
Published	2023-09-12 15:15:00 UTC
Updated	2024-01-07 11:15:00 UTC
Description	Heap buffer overflow in libwebp in Google Chrome prior to 116.0.5845.187 and libwebp 1.3.2 allowed a remote attacker to

Risk And Classification

EPSS: 0.941170000 probability, percentile 0.999090000 (date 2026-04-01)

CISA KEV: Listed on 2023-09-13; due 2023-10-04; ransomware use Unknown

Problem Types: CWE-787

CISA Known Exploited Vulnerability

Vendor	Google
Product	Chromium WebP
Name	Google Chromium WebP Heap-Based Buffer Overflow Vulnerability
Required Action	Apply mitigations per vendor instructions or discontinue use of the product if mitigations are unavailable.
Notes	https://chromereleases.googleblog.com/2023/09/stable-channel-update-for-desktop_11.html?m=1 ; https://nvd.nist.gov/vuln/detail/CVE-2023-4863

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Debian	Debian Linux	10.0	All	All	All
Operating System	Debian	Debian Linux	11.0	All	All	All
Operating System	Debian	Debian Linux	12.0	All	All	All
Operating System	Fedoraproject	Fedora	37	All	All	All
Operating System	Fedoraproject	Fedora	38	All	All	All
Operating System	Fedoraproject	Fedora	39	All	All	All

Application	Google	Chrome	All	All	All	All
Application	Microsoft	Edge	All	All	All	All
Application	Mozilla	Firefox	All	All	All	All
Application	Mozilla	Firefox ESR	All	All	All	All
Application	Mozilla	Thunderbird	All	All	All	All
Application	Webmproject	Libwebp	All	All	All	All

References

Reference

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

1215231 – (CVE-2023-4863) VUL-0: CVE-2023-4863: libwebp,MozillaFirefox,MozillaThunderbird,chromium,ungoogled-chromium: Heap buffer overflow in WebP Codec

Whose CVE Is It Anyway? - Adam Caudill

Critical WebP bug: many apps, not just browsers, under threat

1479274 - chromium - An open-source project to help move the web forward. - Monorail

Debian -- Security Information -- DSA-5497-1 libwebp

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

[SECURITY] Fedora 38 Update: chromium-117.0.5938.62-1.fc38 - package-announce - Fedora Mailing-Lists

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

[SECURITY] [DLA 3569-1] thunderbird security update

Google fixes another Chrome zero-day bug exploited in attacks

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

security.gentoo.org/glsa/202401-10

[SECURITY] [DLA 3568-1] firefox-esr security update

Debian -- Security Information -- DSA-5496-1 firefox-esr

Release v1.3.2: libwebp-1.3.2 · webmproject/libwebp · GitHub

Chrome: Heap buffer overflow in WebP | Hacker News

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

[SECURITY] Fedora 37 Update: libwebp-1.3.1-3.fc37 - package-announce - Fedora Mailing-Lists

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

Fix OOB write in Build Huffman Table. · webmproject/libwebp@902bc91 · GitHub

CVE-2023-4863 Libwebp Vulnerability in NetApp Products | NetApp Product Security

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

CVE-2023-4863

Security Vulnerability fixed in Firefox 117.0.1, Firefox ESR 115.2.1, Firefox ESR 102.15.1, Thunderbird 102.15.1, and Thunderbird 115.2.2 —

Patching the libwebp vulnerability across the Python ecosystem

[SECURITY] Fedora 38 Update: libwebp-1.3.1-3.fc38 - package-announce - Fedora Mailing-Lists

The WebP Oday

[SECURITY] Fedora 39 Update: libwebp-1.3.1-3.fc39 - package-announce - Fedora Mailing-Lists

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

oss-security - CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

Honeyview - Version history, Changelog

oss-security - Re: CVE-2023-4863: libwebp: Heap buffer overflow in WebP Codec

Security Update Guide - Microsoft Security Response Center

[SECURITY] [DLA 3570-1] libwebp security update

403 Forbidden

[SECURITY] Fedora 37 Update: chromium-117.0.5938.88-1.fc37 - package-announce - Fedora Mailing-Lists

[SECURITY] Fedora 39 Update: firefox-117.0.1-2.fc39 - package-announce - Fedora Mailing-Lists

WebP: Multiple vulnerabilities (GLSA 202309-05) — Gentoo security

Debian -- Security Information -- DSA-5498-1 thunderbird

[SECURITY] Fedora 39 Update: chromium-117.0.5938.132-2.fc39 - package-announce - Fedora Mailing-Lists

Chrome Releases: Stable Channel Update for Desktop

CVE Program record

NVD vulnerability detail

CISA Known Exploited Vulnerabilities catalog



No vendor comments have been submitted for this CVE.

Legacy QID Mappings

[160919](#) Oracle Enterprise Linux Security Update for firefox (ELSA-2023-5184)

[160920](#) Oracle Enterprise Linux Security Update for firefox (ELSA-2023-5197)

[160922](#) Oracle Enterprise Linux Security Update for firefox (ELSA-2023-5200)

[160923](#) Oracle Enterprise Linux Security Update for thunderbird (ELSA-2023-5191)

[160925](#) Oracle Enterprise Linux Security Update for libwebp (ELSA-2023-5214)

[160926](#) Oracle Enterprise Linux Security Update for thunderbird (ELSA-2023-5224)

[160928](#) Oracle Enterprise Linux Security Update for thunderbird (ELSA-2023-5201)

[160931](#) Oracle Enterprise Linux Security Update for libwebp (ELSA-2023-5309)

199748 Ubuntu Security Notification for Firefox Vulnerability (USN-6367-1)
199749 Ubuntu Security Notification for Thunderbird Vulnerabilities (USN-6368-1)
199753 Ubuntu Security Notification for libwebp Vulnerability (USN-6369-1)
199790 Ubuntu Security Notification for libwebp Vulnerability (USN-6369-2)
242035 Red Hat Update for libwebp (RHSA-2023:5190)
242036 Red Hat Update for firefox (RHSA-2023:5205)
242037 Red Hat Update for firefox (RHSA-2023:5183)
242038 Red Hat Update for thunderbird (RHSA-2023:5202)
242039 Red Hat Update for thunderbird (RHSA-2023:5188)
242042 Red Hat Update for firefox (RHSA-2023:5198)
242043 Red Hat Update for thunderbird (RHSA-2023:5185)
242044 Red Hat Update for firefox (RHSA-2023:5200)
242046 Red Hat Update for libwebp (RHSA-2023:5189)
242047 Red Hat Update for firefox (RHSA-2023:5192)
242048 Red Hat Update for firefox (RHSA-2023:5197)
242049 Red Hat Update for libwebp (RHSA-2023:5204)
242051 Red Hat Update for thunderbird (RHSA-2023:5201)
242052 Red Hat Update for thunderbird (RHSA-2023:5191)
242053 Red Hat Update for thunderbird (RHSA-2023:5186)
242054 Red Hat Update for firefox (RHSA-2023:5184)
242055 Red Hat Update for firefox (RHSA-2023:5187)
242057 Red Hat Update for thunderbird (RHSA-2023:5223)
242059 Red Hat Update for thunderbird (RHSA-2023:5224)
242061 Red Hat Update for libwebp (RHSA-2023:5214)
242072 Red Hat Update for libwebp: Critical (RHSA-2023:5236)
242079 Red Hat Update for libwebp (RHSA-2023:5309)
242125 Red Hat Update for libwebp (RHSA-2023:5222)
284510 Fedora Security Update for libwebp (FEDORA-2023-c4fa8a204d)
284515 Fedora Security Update for libwebp (FEDORA-2023-3388038193)

284523 Fedora Security Update for chromium (FEDORA-2023-3bfb63f6d2)
284530 Fedora Security Update for chromium (FEDORA-2023-b427f54e68)
285232 Fedora Security Update for chromium (FEDORA-2023-c890266d3f)
285255 Fedora Security Update for firefox (FEDORA-2023-6bdc468df7)
285260 Fedora Security Update for libwebp (FEDORA-2023-f8319bd876)
296105 Oracle Solaris 11.4 Support Repository Update (SRU) 63.157.1 Missing (CPUOCT2023)
296107 Oracle Solaris 11.4 Support Repository Update (SRU) 65.157.1 Missing (CPUJAN2024)
356378 Amazon Linux Security Advisory for libwebp : ALAS2023-2023-355
356381 Amazon Linux Security Advisory for libwebp : ALAS2023-2023-358
356426 Amazon Linux Security Advisory for libwebp12 : ALAS2-2023-2290
356442 Amazon Linux Security Advisory for thunderbird : ALAS2-2023-2291
356602 Amazon Linux Security Advisory for firefox : ALAS2FIREFOX-2023-015
356734 Amazon Linux Security Advisory for qt5-qimageformats : ALAS2-2023-2337
378893 Alibaba Cloud Linux Security Update for libwebp (ALINUX3-SA-2023:0115)
378941 Microsoft Teams Heap Buffer Overflow Vulnerability for Sep 2023
379055 Opera Browser 102.0.4880.51 Stable Update
379057 Vivaldi Desktop Browser 6.2 Update
379059 Brave Browser v1.57.64 (Chromium 116.0.5845.188) Update
503311 Alpine Linux Security Update for libwebp
503312 Alpine Linux Security Update for libwebp
503313 Alpine Linux Security Update for libwebp
503314 Alpine Linux Security Update for libwebp
503315 Alpine Linux Security Update for qt5-qimageformats
503461 Alpine Linux Security Update for firefox-esr
505723 Alpine Linux Security Update for chromium
505890 Alpine Linux Security Update for libwebp
506069 Alpine Linux Security Update for firefox-esr
506184 Alpine Linux Security Update for qt5-qimageformats

506201 Alpine Linux Security Update for qt5-qtwebengine
6000011 Debian Security Update for firefox-esr (DLA 3568-1)
6000012 Debian Security Update for thunderbird (DLA 3569-1)
6000013 Debian Security Update for libwebp (DLA 3570-1)
6000175 Debian Security Update for libwebp (DSA 5497-2)
6000184 Debian Security Update for thunderbird (DSA 5498-1)
6000205 Debian Security Update for firefox-esr (DSA 5496-1)
6000230 Debian Security Update for libwebp (DSA 5497-1)
610513 Google Android Devices October 2023 Security Patch Missing
610519 Google Android November 2023 Security Patch Missing for Samsung
610520 Google Android November 2023 Security Patch Missing for Huawei EMUI
673445 EulerOS Security Update for libwebp (EulerOS-SA-2023-3276)
673462 EulerOS Security Update for libwebp (EulerOS-SA-2023-3309)
673537 EulerOS Security Update for libwebp (EulerOS-SA-2023-3186)
673835 EulerOS Security Update for libwebp (EulerOS-SA-2023-3248)
673866 EulerOS Security Update for libwebp (EulerOS-SA-2024-1149)
673882 EulerOS Security Update for libwebp (EulerOS-SA-2024-1280)
673928 EulerOS Security Update for libwebp (EulerOS-SA-2023-3341)
674031 EulerOS Security Update for libwebp (EulerOS-SA-2023-3221)
691303 Free Berkeley Software Distribution (FreeBSD) Security Update for libwebp heap buffer overflow (58a738d4-57af-11ee-8c58-b42e991fc52e)
691304 Free Berkeley Software Distribution (FreeBSD) Security Update for graphics/webp heap buffer overflow (4fd7a2fc-5860-11ee-a1b3-dca632daf43b)
710750 Gentoo Linux WebP Multiple Vulnerabilities (GLSA 202309-05)
710830 Gentoo Linux Mozilla Firefox Multiple Vulnerabilities (GLSA 202401-10)
754836 SUSE Enterprise Linux Security Update for MozillaFirefox (SUSE-SU-2023:3610-1)
754837 SUSE Enterprise Linux Security Update for MozillaFirefox (SUSE-SU-2023:3609-1)
754843 SUSE Enterprise Linux Security Update for MozillaFirefox (SUSE-SU-2023:3626-1)
754850 SUSE Enterprise Linux Security Update for libwebp (SUSE-SU-2023:3634-1)
754862 SUSE Enterprise Linux Security Update for MozillaThunderbird (SUSE-SU-2023:3664-1)

754932 SUSE Enterprise Linux Security Update for mozilla-messaging (SUSE-SU-2023:3794-1)

754932 SUSE Enterprise Linux Security Update for libwebp (SUSE-SU-2023:3794-1)

754961 SUSE Enterprise Linux Security Update for libwebp (SUSE-SU-2023:3829-1)

907357 Common Base Linux Mariner (CBL-Mariner) Security Update for libwebp (29758-1)

941259 AlmaLinux Security Update for libwebp (ALSA-2023:5309)

941263 AlmaLinux Security Update for firefox (ALSA-2023:5184)

941265 AlmaLinux Security Update for thunderbird (ALSA-2023:5201)

941267 AlmaLinux Security Update for libwebp (ALSA-2023:5214)

941268 AlmaLinux Security Update for firefox (ALSA-2023:5200)

941269 AlmaLinux Security Update for thunderbird (ALSA-2023:5224)

961016 Rocky Linux Security Update for firefox (RLSA-2023:5184)

961020 Rocky Linux Security Update for libwebp (RLSA-2023:5309)

961034 Rocky Linux Security Update for libwebp (RLSA-2023:5214)

961036 Rocky Linux Security Update for thunderbird (RLSA-2023:5201)

995285 Rust (Rust) Security Update for libwebp-sys2 (GHSA-j7hp-h8jx-5ppr)

995301 NodeJs (Npm) Security Update for electron (GHSA-j7hp-h8jx-5ppr)

995331 GO (Go) Security Update for github.com/chai2010/webp (GHSA-j7hp-h8jx-5ppr)

995350 DotNet (Nuget) Security Update for SkiaSharp (GHSA-j7hp-h8jx-5ppr)

995498 Python (Pip) Security Update for Pillow (GHSA-j7hp-h8jx-5ppr)

995522 Python (Pip) Security Update for pillow (GHSA-56pw-mpj4-fxww)

995523 Python (Pip) Security Update for imagecodecs (GHSA-94vc-p8w7-5p49)

995537 DotNet (Nuget) Security Update for ImageResizer.Plugins.FreeImage (GHSA-wqcr-xm43-hpqr)

995538 Python (Pip) Security Update for webp (GHSA-f9pm-4g9p-6vm3)

© CVE.report 2026 |

Use of this information constitutes acceptance for use in an AS IS condition. There are NO warranties, implied or otherwise, with regard to this information or its use. Any use of this information is at the user's risk. It is the responsibility of user to evaluate the accuracy, completeness or usefulness of any information, opinion, advice or other content. EACH USER WILL BE SOLELY RESPONSIBLE FOR ANY consequences of his or her direct or indirect use of this web site. ALL WARRANTIES OF ANY KIND ARE EXPRESSLY DISCLAIMED. This site will NOT BE LIABLE FOR ANY DIRECT, INDIRECT or any other kind of loss.

CVE, CWE, and OVAL are registered trademarks of [The MITRE Corporation](#) and the authoritative source of CVE content is [MITRE's CVE web site](#). This site includes MITRE data granted under the following [license](#).

CVE.report and Source URL Uptime Status [status.cve.report](#)