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About the security content of macOS Sonoma 14.3

This document describes the security content of macOS Sonoma 14.3.

About Apple security updates

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Apple security documents reference vulnerabilities by [CVE-ID](#) when possible.

For more information about security, see the [Apple Product Security](#) page.

macOS Sonoma 14.3

Released January 22, 2024

Apple Neural Engine

Available for: macOS Sonoma

Impact: An app may be able to execute arbitrary code with kernel privileges

Description: The issue was addressed with improved memory handling.

CVE-2024-23212: Ye Zhang of Baidu Security

CoreCrypto

Available for: macOS Sonoma

Impact: An attacker may be able to decrypt legacy RSA PKCS#1 v1.5 ciphertexts without having the private key

Description: A timing side-channel issue was addressed with improvements to constant-time computation in cryptographic functions.

CVE-2024-23218: Clemens Lang

Finder

Available for: macOS Sonoma

Impact: An app may be able to access sensitive user data

Description: The issue was addressed with improved checks.

CVE-2024-23224: Brian McNulty

Kernel

Available for: macOS Sonoma

Impact: An app may be able to execute arbitrary code with kernel privileges

Description: The issue was addressed with improved memory handling.

CVE-2024-23208: fmyy(@binary_fmyy) and lime From TIANGONG Team of Legendsec at QI-ANXIN Group

libxpc

Available for: macOS Sonoma

Impact: An app may be able to cause a denial-of-service

Description: A permissions issue was addressed with additional restrictions.

CVE-2024-23201: Koh M. Nakagawa of FFRI Security, Inc. and an anonymous researcher

Entry added March 7, 2024

LLVM

Available for: macOS Sonoma

Impact: Processing web content may lead to arbitrary code execution

Description: The issue was addressed with improved memory handling.

CVE-2024-23209

Mail Search

Available for: macOS Sonoma

Impact: An app may be able to access sensitive user data

Description: This issue was addressed with improved redaction of sensitive information.

CVE-2024-23207: Noah Roskin-Fraze and Prof. J. (ZeroClicks.ai Lab), and Ian de Marcellus

NSSpellChecker

Available for: macOS Sonoma

Impact: An app may be able to access sensitive user data

Description: A privacy issue was addressed with improved handling of files.

CVE-2024-23223: Noah Roskin-Fraze and Prof. J. (ZeroClicks.ai Lab)

Power Manager

Available for: macOS Sonoma

Impact: An app may be able to corrupt coprocessor memory

Description: The issue was addressed with improved checks.

CVE-2024-27791: Pan ZhenPeng (@Peterpan0927) of STAR Labs SG Pte. Ltd.

Entry added April 24, 2024

Safari

Available for: macOS Sonoma

Impact: A user's private browsing activity may be visible in Settings

Description: A privacy issue was addressed with improved handling of user preferences.

CVE-2024-23211: Mark Bowers

Shortcuts

Available for: macOS Sonoma

Impact: A shortcut may be able to use sensitive data with certain actions without prompting the user

Description: The issue was addressed with additional permissions checks.

CVE-2024-23203: an anonymous researcher

CVE-2024-23204: Jubaer Alnazi (@h33tjubaer)

Shortcuts

Available for: macOS Sonoma

Impact: An app may be able to bypass certain Privacy preferences

Description: A privacy issue was addressed with improved handling of temporary files.

CVE-2024-23217: Kirin (@Pwnrin)

TCC

Available for: macOS Sonoma

Impact: An app may be able to access user-sensitive data

Description: An issue was addressed with improved handling of temporary files.

CVE-2024-23215: Zhongquan Li (@Guluisacat)

Time Zone

Available for: macOS Sonoma

Impact: An app may be able to view a user's phone number in system logs

Description: This issue was addressed with improved redaction of sensitive information.

CVE-2024-23210: Noah Roskin-Frazee and Prof. J. (ZeroClicks.ai Lab)

WebKit

Available for: macOS Sonoma

Impact: A maliciously crafted webpage may be able to fingerprint the user

Description: An access issue was addressed with improved access restrictions.

WebKit Bugzilla: 262699

CVE-2024-23206: an anonymous researcher

WebKit

Available for: macOS Sonoma

Impact: Processing web content may lead to arbitrary code execution

Description: The issue was addressed with improved memory handling.

WebKit Bugzilla: 266619

CVE-2024-23213: Wangtaiyu of Zhongfu info

WebKit

Available for: macOS Sonoma

Impact: Processing maliciously crafted web content may lead to arbitrary code execution

Description: Multiple memory corruption issues were addressed with improved memory handling.

WebKit Bugzilla: 265129

CVE-2024-23214: Nan Wang (@eternalsakura13) of 360 Vulnerability Research Institute

WebKit

Available for: macOS Sonoma

Impact: Processing maliciously crafted web content may lead to arbitrary code execution. Apple is aware of a report that this issue may have been exploited.

Description: A type confusion issue was addressed with improved checks.

WebKit Bugzilla: 267134

CVE-2024-23222

WebKit

Available for: macOS Sonoma

Impact: A malicious website may cause unexpected cross-origin behavior

Description: A logic issue was addressed with improved checks.

WebKit Bugzilla: 265812

CVE-2024-23271: James Lee (@Windowsrcer)

Entry added April 24, 2024

Additional recognition

NetworkExtension

We would like to acknowledge Nils Rollshausen for their assistance.

Entry added April 24, 2024

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