

# About the security content of macOS Monterey 12.7.4

This document describes the security content of macOS Monterey 12.7.4.

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## macOS Monterey 12.7.4

Released March 7, 2024

### Admin Framework

Available for: macOS Monterey

Impact: An app may be able to elevate privileges

Description: A logic issue was addressed with improved checks.

CVE-2024-23276: Kirin (@Pwnrin)

### Airport

Available for: macOS Monterey

Impact: An app may be able to read sensitive location information

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

CVE-2024-23227: Brian McNulty

### AppleMobileFileIntegrity

Available for: macOS Monterey

Impact: An app may be able to modify protected parts of the file system

Description: A downgrade issue affecting Intel-based Mac computers was addressed with additional code-signing restrictions.

CVE-2024-23269: Mickey Jin (@patch1t)

### ColorSync

Available for: macOS Monterey

Impact: Processing a file may lead to unexpected app termination or arbitrary code execution

Description: The issue was addressed with improved memory handling.

CVE-2024-23247: m4yfly with TianGong Team of Legendsec at Qi'anxin Group

## CoreCrypto

Available for: macOS Monterey

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

## Disk Images

Available for: macOS Monterey

Impact: An app may be able to break out of its sandbox

Description: The issue was addressed with improved checks.

CVE-2024-23299: an anonymous researcher

Entry added May 29, 2024

## Dock

Available for: macOS Monterey

Impact: An app from a standard user account may be able to escalate privilege after admin user login

Description: A logic issue was addressed with improved restrictions.

CVE-2024-23244: Csaba Fitzl (@theevilbit) of OffSec

## Image Processing

Available for: macOS Monterey

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

Description: The issue was addressed with improved memory handling.

CVE-2024-23270: an anonymous researcher

## ImageIO

Available for: macOS Monterey

Impact: Processing an image may lead to arbitrary code execution

Description: A buffer overflow issue was addressed with improved memory handling.

CVE-2024-23286: Junsung Lee working with Trend Micro Zero Day Initiative, Amir Bazine and Karsten König of CrowdStrike Counter Adversary Operations, Dohyun Lee

(@I33d0hyun), and Lyutoon and Mr.R

Entry updated May 29, 2024

## ImageIO

Available for: macOS Monterey

Impact: Processing an image may result in disclosure of process memory

Description: The issue was addressed with improved memory handling.

CVE-2024-23257: Junsung Lee working with Trend Micro Zero Day Initiative

## Intel Graphics Driver

Available for: macOS Monterey

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

Description: An out-of-bounds write issue was addressed with improved input validation.

CVE-2024-23234: Murray Mike

## Kerberos v5 PAM module

Available for: macOS Monterey

Impact: An app may be able to modify protected parts of the file system

Description: The issue was addressed with improved checks.

CVE-2024-23266: Pedro Tôrres (@t0rr3sp3dr0)

## Kernel

Available for: macOS Monterey

Impact: An app may be able to cause unexpected system termination or write kernel memory

Description: A memory corruption vulnerability was addressed with improved locking.

CVE-2024-23265: Xinru Chi of Pangu Lab

## Kernel

Available for: macOS Monterey

Impact: An attacker with arbitrary kernel read and write capability may be able to bypass kernel memory protections. Apple is aware of a report that this issue may have been exploited.

Description: A memory corruption issue was addressed with improved validation.

CVE-2024-23225

## libxpc

Available for: macOS Monterey

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

## MediaRemote

Available for: macOS Monterey

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

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

CVE-2023-28826: Meng Zhang (鲸落) of NorthSea

## Metal

Available for: macOS Monterey

Impact: An application may be able to read restricted memory

Description: A validation issue was addressed with improved input sanitization.

CVE-2024-23264: Meysam Firouzi @R00tkitsmm working with Trend Micro Zero Day Initiative

## Notes

Available for: macOS Monterey

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

Description: A privacy issue was addressed with improved private data redaction for log entries.

CVE-2024-23283

## PackageKit

Available for: macOS Monterey

Impact: An app may be able to elevate privileges

Description: An injection issue was addressed with improved input validation.

CVE-2024-23274: Bohdan Stasiuk (@Bohdan\_Stasiuk)

CVE-2024-23268: Mickey Jin (@patch1t), and Pedro Tórres (@t0rr3sp3dr0)

## PackageKit

Available for: macOS Monterey

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

Description: A race condition was addressed with additional validation.

CVE-2024-23275: Mickey Jin (@patch1t)

## PackageKit

Available for: macOS Monterey

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

Description: The issue was addressed with improved checks.

CVE-2024-23267: Mickey Jin (@patch1t)

## PackageKit

Available for: macOS Monterey

Impact: An app may be able to overwrite arbitrary files

Description: A path handling issue was addressed with improved validation.

CVE-2024-23216: Pedro Tôrres (@t0rr3sp3dr0)

## SharedFileList

Available for: macOS Monterey

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

Description: This issue was addressed with improved file handling.

CVE-2024-23230: Mickey Jin (@patch1t)

## Shortcuts

Available for: macOS Monterey

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-2024-23204: Jubaer Alnazi (@h33tjubaer)

## Shortcuts

Available for: macOS Monterey

Impact: Third-party shortcuts may use a legacy action from Automator to send events to apps without user consent

Description: This issue was addressed by adding an additional prompt for user consent.

CVE-2024-23245: an anonymous researcher

## Storage Services

Available for: macOS Monterey

Impact: A user may gain access to protected parts of the file system

Description: A logic issue was addressed with improved checks.

CVE-2024-23272: Mickey Jin (@patch1t)

## Transparency

Available for: macOS Monterey

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

Description: The issue was addressed with improved restriction of data container access.

CVE-2023-40389: Csaba Fitzl (@theevilbit) of Offensive Security and Joshua Jewett (@JoshJewett33)

Entry added May 29, 2024

## Additional recognition

### Messages

We would like to acknowledge Petar Mataić for their assistance.

Entry added February 5, 2025

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Helpful?

Yes

No

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