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About the security content of tvOS 17.3

This document describes the security content of tvOS 17.3.

About Apple security updates

For our customers' protection, Apple doesn't disclose, discuss, or confirm security issues until an investigation has occurred and patches or releases are available. Recent releases are listed on the [Apple security releases](#) page.

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

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

tvOS 17.3

Released January 22, 2024

Apple Neural Engine

Available for: Apple TV HD and Apple TV 4K (all models)

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: Apple TV HD and Apple TV 4K (all models)

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

Kernel

Available for: Apple TV HD and Apple TV 4K (all models)

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: Apple TV HD and Apple TV 4K (all models)

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

NSSpellChecker

Available for: Apple TV HD and Apple TV 4K (all models)

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-Frazee and Prof. J. (ZeroClicks.ai Lab)

Power Manager

Available for: Apple TV HD and Apple TV 4K (all models)

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

TCC

Available for: Apple TV HD and Apple TV 4K (all models)

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: Apple TV HD and Apple TV 4K (all models)

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: Apple TV HD and Apple TV 4K (all models)

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: Apple TV HD and Apple TV 4K (all models)

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: Apple TV HD and Apple TV 4K (all models)

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: Apple TV HD and Apple TV 4K (all models)

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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