

Threat Level

HiveForce Labs THREAT ADVISORY

爺 VULNERABILITY REPORT

CoreAudio and RPAC Cracked: Apple Patches Active Zero-Day Threats

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TA Number TA2025118

Summary

First Seen: April 16, 2025

Affected Products: macOS, iOS, tvOS, iPadOS, and visionOS

Impact: Apple has released security updates to fix two zero-day vulnerabilities, tracked as CVE-2025-31200 and CVE-2025-31201 that were exploited in a highly targeted and sophisticated attack. These flaws affect a wide range of Apple devices, including iPhones, Macs, iPads, Apple TVs, and Vision Pro. The flaws could allow attackers to run harmful code or bypass critical security protections. To stay protected, make sure you update all your Apple devices as soon as possible.

☆ CVEs

AFFECTED **ZERO-**CISA **CVE** NAME PATCH **KEV** PRODUCT DAY Apple Multiple Products CVE-2025macOS, iOS, tvOS, \checkmark \checkmark \checkmark Memory Corruption 31200 iPadOS, and visionOS Vulnerability **Apple Multiple Products** CVE-2025macOS, iOS, tvOS, \checkmark Arbitrary Read and Write 31201 iPadOS, and visionOS Vulnerability

Vulnerability Details

Apple has patched two zero-day vulnerabilities that were actively exploited in highly sophisticated attacks targeting specific individuals. These flaws affect a wide range of Apple platforms, including macOS, iOS, iPadOS, tvOS, and even visionOS.

#1

The first flaw, tracked as CVE-2025-31200, is a memory corruption issue within CoreAudio. By processing a maliciously crafted audio stream, attackers could execute arbitrary code on a victim's device. Apple has fixed this by implementing improved bounds checking. This vulnerability was used in an attack aimed at selected iOS users.

The second flaw, CVE-2025-31201, involves Apple's RPAC (Return Pointer Authentication Code) and is potentially more severe. It allowed attackers with arbitrary read and write capabilities to bypass Pointer Authentication a critical security mechanism designed to protect against memory corruption by verifying that pointers haven't been tampered with. Apple mitigated this flaw by removing the vulnerable code entirely.

Given that these vulnerabilities are being actively used in targeted attacks, Apple urges all users to update their devices immediately. Staying on the latest version is essential to defend against these kinds of stealthy, high-level exploits.

Vulnerabilities

#2

#4

CVE ID	AFFECTED PRODUCTS	AFFECTED CPE	CWE ID
CVE-2025- 31200	macOS Prior to Version 15.4.1 iOS and iPadOS Prior to Version 18.4.1 tvOS Prior to Version 18.4.1 visionOS Prior to Version 2.4.1	cpe:2.3:a:apple:macos:*:* :*:*:*:*:* cpe:2.3:o:apple:tvos:*:*:* :*:*:*:*:* cpe:2.3:a:apple:visionos:*: *:*:*:*:*:* cpe:2.3:a:apple:ios:*:*:*:* :*:*:*:*	CWE-787
CVE-2025- 31201			CWE-287

Recommendations

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Update Your Apple Devices Right Away: Make sure to install the latest updates on your Mac, iPhone, iPad, Apple TV, or Vision Pro as soon as possible. Apple has fixed serious security flaws that hackers are already using in attacks. Updating now helps keep your devices safe.



Turn On Automatic Updates: Enable automatic updates for all your Apple devices so you get the latest security fixes as soon as they're available. It's an easy way to stay protected without having to think about it.



Be Cautious with Unknown Media Files: Try not to open audio or video files from sources you don't recognize or trust. One of the vulnerabilities (CVE-2025-31200) can be exploited just by playing a malicious media file, so it's best to stay cautious.



Vulnerability Management: This involves regularly assessing and updating software to address known vulnerabilities. Maintain an inventory of software versions and security patches, and evaluate the security practices of third party vendors, especially for critical applications and services.

Potential <u>MITRE ATT&CK</u> TTPs

TA0042 Resource Development	TA0001 Initial Access	TA0002 Execution	TA0004 Privilege Escalation	0 0 1
T1588 Obtain Capabilities	T1588.006 Vulnerabilities	T1059 Command and Scripting Interpreter	<u>T1566</u> Phishing	11 011
T1203 Exploitation for Client Execution	T1068 Exploitation for Privilege Escalation			

Signation Patch Details

To address the vulnerabilities upgrade to the latest iOS and macOS versions immediately.

Links:

For macOS Upgrade to Version 15.4.1 https://support.apple.com/en-us/108382

For iOS and iPadOS Upgrade to Version 18.4.1 https://support.apple.com/en-us/118575

For tvOS Upgrade to Version 18.4.1 https://support.apple.com/en-us/108414

For visionOS Upgrade to Version 2.4.1 https://support.apple.com/en-us/118481

S References

https://support.apple.com/en-us/122400 https://support.apple.com/en-us/122282 https://support.apple.com/en-us/122401 https://support.apple.com/en-us/122402 https://support.apple.com/en-us/100100

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Contextualize Unis Threat Exposure Management

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