

About the security content of Security Update 2021-003 Mojave

This document describes the security content of Security Update 2021-003 Mojave.

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Security Update 2021-003 Mojave

Released April 26, 2021

APFS

Available for: macOS Mojave

Impact: A local user may be able to read arbitrary files

Description: The issue was addressed with improved permissions logic.

CVE-2021-1797: Thomas Tempelmann

Audio

Available for: macOS Mojave

Impact: An application may be able to read restricted memory

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

CVE-2021-1808: JunDong Xie of Ant Security Light-Year Lab

CFNetwork

Available for: macOS Mojave

Impact: Processing maliciously crafted web content may disclose sensitive user information

Description: A memory initialization issue was addressed with improved memory handling.

CVE-2021-1857: an anonymous researcher

CoreAudio

Available for: macOS Mojave

Impact: A malicious application may be able to read restricted memory

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

CVE-2021-1809: JunDong Xie of Ant Security Light-Year Lab

CoreGraphics

Available for: macOS Mojave

Impact: Opening a maliciously crafted file may lead to unexpected application termination or arbitrary code execution

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

CVE-2021-1847: Xuwei Liu of Purdue University

CoreText

Available for: macOS Mojave

Impact: Processing a maliciously crafted font may result in the disclosure of process memory

Description: A logic issue was addressed with improved state management.

CVE-2021-1811: Xingwei Lin of Ant Security Light-Year Lab

curl

Available for: macOS Catalina

Impact: A malicious server may be able to disclose active services

Description: This issue was addressed with improved checks.

CVE-2020-8284: Marian Rehak

Entry added May 6, 2021

curl

Available for: macOS Mojave

Impact: A remote attacker may be able to cause a denial of service

Description: A buffer overflow was addressed with improved input validation.

CVE-2020-8285: xnynx

curl

Available for: macOS Mojave

Impact: An attacker may provide a fraudulent OCSP response that would appear valid

Description: This issue was addressed with improved checks.

CVE-2020-8286: an anonymous researcher

DiskArbitration

Available for: macOS Mojave

Impact: A malicious application may be able to modify protected parts of the file system

Description: A permissions issue existed in DiskArbitration. This was addressed with additional ownership checks.

CVE-2021-1784: Csaba Fitzl (@theevilbit) of Offensive Security, an anonymous researcher, and Mikko Kenttälä (@Turmio_) of SensorFu

FontParser

Available for: macOS Mojave

Impact: Processing a maliciously crafted font file may lead to arbitrary code execution

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

CVE-2021-1881: Hou JingYi (@hgy79425575) of Qihoo 360, an anonymous researcher, Xingwei Lin of Ant Security Light-Year Lab, and Mickey Jin of Trend Micro

FontParser

Available for: macOS Mojave

Impact: Processing a maliciously crafted font file may lead to arbitrary code execution

Description: A logic issue was addressed with improved state management.

CVE-2020-27942: an anonymous researcher

Foundation

Available for: macOS Mojave

Impact: A malicious application may be able to gain root privileges

Description: A validation issue was addressed with improved logic.

CVE-2021-1813: Cees Elzinga

ImageIO

Available for: macOS Mojave

Impact: Processing a maliciously crafted image may lead to arbitrary code execution

Description: This issue was addressed with improved checks.

CVE-2021-1843: Ye Zhang of Baidu Security

Intel Graphics Driver

Available for: macOS Mojave

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

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

CVE-2021-1805: ABC Research s.r.o. working with Trend Micro Zero Day Initiative

Intel Graphics Driver

Available for: macOS Mojave

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

Description: A race condition was addressed with additional validation.

CVE-2021-1806: ABC Research s.r.o. working with Trend Micro Zero Day Initiative

Intel Graphics Driver

Available for: macOS Mojave

Impact: A malicious application may be able to execute arbitrary code with kernel privileges

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

CVE-2021-1834: ABC Research s.r.o. working with Trend Micro Zero Day Initiative

Kernel

Available for: macOS Mojave

Impact: A malicious application may be able to disclose kernel memory

Description: A memory initialization issue was addressed with improved memory handling.

CVE-2021-1860: @0xalsr

Kernel

Available for: macOS Mojave

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

Description: A logic issue was addressed with improved state management.

CVE-2021-1851: @0xalsr

Kernel

Available for: macOS Mojave

Impact: A local attacker may be able to elevate their privileges

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

CVE-2021-1840: Zuozhi Fan (@pattern_F_) of Ant Group Tianqiong Security Lab

libxpc

Available for: macOS Mojave

Impact: A malicious application may be able to gain root privileges

Description: A race condition was addressed with additional validation.

CVE-2021-30652: James Hutchins

libxslt

Available for: macOS Mojave

Impact: Processing a maliciously crafted file may lead to heap corruption

Description: A double free issue was addressed with improved memory management.

CVE-2021-1875: Found by OSS-Fuzz

NSRemoteView

Available for: macOS Mojave

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

Description: A use after free issue was addressed with improved memory management.

CVE-2021-1876: Matthew Denton of Google Chrome

Preferences

Available for: macOS Mojave

Impact: A local user may be able to modify protected parts of the file system

Description: A parsing issue in the handling of directory paths was addressed with improved path validation.

CVE-2021-1739: Zhipeng Huo (@R3dF09) and Yuebin Sun (@yuebinsun2020) of Tencent Security Xuanwu Lab (xlab.tencent.com)

smbx

Available for: macOS Mojave

Impact: An attacker in a privileged network position may be able to leak sensitive user information

Description: An integer overflow was addressed with improved input validation.

CVE-2021-1878: Aleksandar Nikolic of Cisco Talos (talosintelligence.com)

Tailspin

Available for: macOS Mojave

Impact: A local attacker may be able to elevate their privileges

Description: A logic issue was addressed with improved state management.

CVE-2021-1868: Tim Michaud of Zoom Communications

tcpdump

Available for: macOS Mojave

Impact: A remote attacker may be able to cause a denial of service

Description: This issue was addressed with improved checks.

CVE-2020-8037: an anonymous researcher

Time Machine

Available for: macOS Mojave

Impact: A local attacker may be able to elevate their privileges

Description: The issue was addressed with improved permissions logic.

CVE-2021-1839: Tim Michaud (@TimGMichaud) of Zoom Video Communications and Gary Nield of ECSC Group plc

Wi-Fi

Available for: macOS Mojave

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

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

CVE-2021-1828: Zuozhi Fan (@pattern_F_) of Ant Group Tianqiong Security Lab

wifivelocityd

Available for: macOS Mojave

Impact: An application may be able to execute arbitrary code with system privileges

Description: The issue was addressed with improved permissions logic.

CVE-2020-3838: Dayton Pidhirney (@_watbulb)

WindowServer

Available for: macOS Mojave

Impact: A malicious application may be able to unexpectedly leak a user's credentials from secure text fields

Description: An API issue in Accessibility TCC permissions was addressed with improved state management.

CVE-2021-1873: an anonymous researcher

Additional recognition

CoreCrypto

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Intel Graphics Driver

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Kernel

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Mail

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Safari

We would like to acknowledge an anonymous researcher for their assistance.

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Security

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Helpful?

Yes

No