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## APPLE-SA-2021-04-26-3 Security Update 2021-002 Catalina

*From:* Apple Product Security via Fulldisclosure <fulldisclosure () seclists org>

*Date:* Mon, 26 Apr 2021 15:51:38 -0700

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Hash: SHA256

APPLE-SA-2021-04-26-3 Security Update 2021-002 Catalina

Security Update 2021-002 Catalina addresses the following issues.  
Information about the security content is also available at  
<https://support.apple.com/HT212326>.

### APFS

Available for: macOS Catalina

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

### Archive Utility

Available for: macOS Catalina

Impact: A malicious application may bypass Gatekeeper checks

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

CVE-2021-1810: an anonymous researcher

### Audio

Available for: macOS Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 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 Catalina

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 Catalina

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: Mikko Kenttälä (@Turmio\_) of SensorFu, Csaba Fitzl (@theevilbit) of Offensive Security, and an anonymous researcher

FontParser

Available for: macOS Catalina

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 Catalina

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 Catalina

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

#### Foundation

Available for: macOS Catalina

Impact: An application may be able to gain elevated privileges

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

CVE-2021-1882: Gabe Kirkpatrick (@gabe\_k)

#### ImageIO

Available for: macOS Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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

#### Login Window

Available for: macOS Catalina

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

#### access private information

Description: This issue was addressed with improved entitlements.

CVE-2021-1824: Wojciech Reguła (@\_r3ggi) of SecuRing

#### NSRemoteView

Available for: macOS Catalina

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 Catalina

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)

CVE-2021-1740: Zhipeng Huo (@R3dF09) and Yuebin Sun (@yuebinsun2020) of Tencent Security Xuanwu Lab (xlab.tencent.com)

#### smbx

Available for: macOS Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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 Catalina

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)

Windows Server

Available for: macOS Catalina

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

Installation note:

This update may be obtained from the Mac App Store or Apple's Software Downloads web site:

<https://support.apple.com/downloads/>

Information will also be posted to the Apple Security Updates web site: <https://support.apple.com/kb/HT201222>

This message is signed with Apple's Product Security PGP key, and details are available at:

<https://www.apple.com/support/security/pgp/>

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*(Apr 27)*

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