

# About the security content of iOS 15 and iPadOS 15

This document describes the security content of iOS 15 and iPadOS 15.

## About Apple security updates

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

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## iOS 15 and iPadOS 15

Released September 20, 2021

### Accessory Manager

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

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

CVE-2021-30837: Siddharth Aeri (@b1n4r1b01)

### AppleMobileFileIntegrity

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

Impact: A local attacker may be able to read sensitive information

Description: This issue was addressed with improved checks.

CVE-2021-30811: an anonymous researcher working with Compair

### Apple Neural Engine

Available for devices with Apple Neural Engine: iPhone 8 and later, iPad Pro (3rd generation) and later, iPad Air (3rd generation) and later, and iPad mini (5th generation)

Impact: A malicious application may be able to execute arbitrary code with system privileges on devices with an Apple Neural Engine

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

CVE-2021-30838: proteas wang

### CoreML

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

Impact: A local attacker may be able to cause unexpected application termination or arbitrary code

execution

Description: This issue was addressed with improved checks.

CVE-2021-30825: hjy79425575 working with Trend Micro Zero Day Initiative

#### Face ID

Available for devices with Face ID: iPhone X, iPhone XR, iPhone XS (all models), iPhone 11 (all models), iPhone 12 (all models), iPad Pro (11-inch), and iPad Pro (3rd generation)

Impact: A 3D model constructed to look like the enrolled user may be able to authenticate via Face ID

Description: This issue was addressed by improving Face ID anti-spoofing models.

CVE-2021-30863: Wish Wu (吴维希 @wish\_wu) of Ant-financial Light-Year Security Lab

#### FontParser

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

Description: This issue was addressed with improved checks.

CVE-2021-30841: Xingwei Lin of Ant Security Light-Year Lab

CVE-2021-30842: Xingwei Lin of Ant Security Light-Year Lab

CVE-2021-30843: Xingwei Lin of Ant Security Light-Year Lab

#### ImageIO

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

Description: This issue was addressed with improved checks.

CVE-2021-30835: Ye Zhang of Baidu Security

CVE-2021-30847: Mike Zhang of Pangu Lab

#### Kernel

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

Description: A race condition was addressed with improved locking.

CVE-2021-30857: Zweig of Kunlun Lab

#### libexpat

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

Description: This issue was addressed by updating expat to version 2.4.1.

CVE-2013-0340: an anonymous researcher

#### Model I/O

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

Impact: Processing a maliciously crafted USD file may disclose memory contents

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

CVE-2021-30819: Apple

## Preferences

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

Impact: An application may be able to access restricted files

Description: A validation issue existed in the handling of symlinks. This issue was addressed with improved validation of symlinks.

CVE-2021-30855: Zhipeng Huo (@R3dF09) and Yuebin Sun (@yuebinsun2020) of Tencent Security Xuanwu Lab (xlab.tencent.com)

## Preferences

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

Impact: A sandboxed process may be able to circumvent sandbox restrictions

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

CVE-2021-30854: Zhipeng Huo (@R3dF09) and Yuebin Sun (@yuebinsun2020) of Tencent Security Xuanwu Lab (xlab.tencent.com)

## Siri

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

Impact: A local attacker may be able to view contacts from the lock screen

Description: A lock screen issue allowed access to contacts on a locked device. This issue was addressed with improved state management.

CVE-2021-30815: an anonymous researcher

## Telephony

Available for: iPhone SE (1st generation), iPad Pro 12.9-inch, iPad Air 2, iPad (5th generation), and iPad mini 4

Impact: In certain situations, the baseband would fail to enable integrity and ciphering protection

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

CVE-2021-30826: CheolJun Park, Sangwook Bae and BeomSeok Oh of KAIST SysSec Lab

## WebKit

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

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

CVE-2021-30846: Sergei Glazunov of Google Project Zero

## WebKit

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

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

CVE-2021-30848: Sergei Glazunov of Google Project Zero

#### WebKit

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

Description: Multiple memory corruption issues were addressed with improved memory handling.

CVE-2021-30849: Sergei Glazunov of Google Project Zero

#### WebKit

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

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

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

CVE-2021-30851: Samuel Groß of Google Project Zero

#### Wi-Fi

Available for: iPhone 6s and later, iPad Pro (all models), iPad Air 2 and later, iPad 5th generation and later, iPad mini 4 and later, and iPod touch (7th generation)

Impact: An attacker in physical proximity may be able to force a user onto a malicious Wi-Fi network during device setup

Description: An authorization issue was addressed with improved state management.

CVE-2021-30810: an anonymous researcher

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## Additional recognition

#### Assets

We would like to acknowledge Cees Elzinga for their assistance.

#### Bluetooth

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

#### File System

We would like to acknowledge Siddharth Aeri (@b1n4r1b01) for their assistance.

#### Sandbox

We would like to acknowledge Csaba Fitzl (@theevilbit) of Offensive Security for their assistance.

#### UIKit

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

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Julkaisupäivämäärä: 20. syyskuuta 2021

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Oliko tästä hyötyä?

Kyllä

Ei



Tuki



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