

About the security content of iOS 11

This document describes the security content of iOS 11.

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For more information about security, see the [Apple Product Security page](#). You can encrypt communications with Apple using the [Apple Product Security PGP Key](#).

Apple security documents reference vulnerabilities by CVE-ID when possible.

iOS 11

Released September 19, 2017

Bluetooth

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An application may be able to access restricted files

Description: A privacy issue existed in the handling of Contact cards. This was addressed with improved state management.

CVE-2017-7131: an anonymous researcher, Elvis (@elvisimprsntr), Dominik Conrads of Federal Office for Information Security, an anonymous researcher

Entry added September 25, 2017

CFNetwork Proxies

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An attacker in a privileged network position may be able to cause a denial of service

Description: Multiple denial of service issues were addressed through improved memory handling.

CVE-2017-7083: Abhinav Bansal of Zscaler Inc.

Entry added September 25, 2017

CoreAudio

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An application may be able to read restricted memory

Description: An out-of-bounds read was addressed by updating to Opus version 1.1.4.

CVE-2017-0381: V.E.O (@VYSEa) of Mobile Threat Research Team, Trend Micro

Entry added September 25, 2017

Exchange ActiveSync

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An attacker in a privileged network position may be able to erase a device during Exchange account setup

Description: A validation issue existed in AutoDiscover V1. This was addressed by requiring TLS for AutoDiscover V1. AutoDiscover V2 is now supported.

CVE-2017-7088: Ilya Nesterov, Maxim Goncharov

Heimdal

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An attacker in a privileged network position may be able to impersonate a service

Description: A validation issue existed in the handling of the KDC-REP service name. This issue was addressed through improved validation.

CVE-2017-11103: Jeffrey Altman, Viktor Duchovni, and Nico Williams

Entry added September 25, 2017

iBooks

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Parsing a maliciously crafted iBooks file may lead to a persistent denial-of-service

Description: Multiple denial of service issues were addressed through improved memory handling.

CVE-2017-7072: Jędrzej Krysztofiak

Kernel

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

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

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

CVE-2017-7114: Alex Plaskett of MWR InfoSecurity

Entry added September 25, 2017

Keyboard Suggestions

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Keyboard autocorrect suggestions may reveal sensitive information

Description: The iOS keyboard was inadvertently caching sensitive information. This issue was addressed with improved heuristics.

CVE-2017-7140: an anonymous researcher

Entry added September 25, 2017

libc

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

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

Description: A resource exhaustion issue in glob() was addressed through an improved algorithm.

CVE-2017-7086: Russ Cox of Google

Entry added September 25, 2017

libc

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An application may be able to cause a denial of service

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

CVE-2017-1000373

Entry added September 25, 2017

libexpat

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Multiple issues in expat

Description: Multiple issues were addressed by updating to version 2.2.1

CVE-2016-9063

CVE-2017-9233

Entry added September 25, 2017

Location Framework

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An application may be able to read sensitive location information

Description: A permissions issue existed in the handling of the location variable. This was addressed with additional ownership checks.

CVE-2017-7148: an anonymous researcher, an anonymous researcher

Entry added September 25, 2017

Mail Drafts

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An attacker with a privileged network position may be able to intercept mail contents

Description: An encryption issue existed in the handling of mail drafts. This issue was addressed with improved handling of mail drafts meant to be sent encrypted.

CVE-2017-7078: an anonymous researcher, an anonymous researcher, an anonymous researcher

Entry added September 25, 2017

Mail MessageUI

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Processing a maliciously crafted image may lead to a denial of service

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

CVE-2017-7097: Xinshu Dong and Jun Hao Tan of Anquan Capital

Messages

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Processing a maliciously crafted image may lead to a denial of service

Description: A denial of service issue was addressed through improved validation.

CVE-2017-7118: Kiki Jiang and Jason Tokoph

MobileBackup

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Backup may perform an unencrypted backup despite a requirement to perform only encrypted backups

Description: A permissions issue existed. This issue was addressed with improved permission validation.

CVE-2017-7133: Don Sparks of HackediOS.com

Phone

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: A screenshot of secure content may be taken when locking an iOS device

Description: A timing issue existed in the handling of locking. This issue was addressed by disabling screenshots while locking.

CVE-2017-7139: an anonymous researcher

Entry added September 25, 2017

Safari

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Visiting a malicious website may lead to address bar spoofing

Description: An inconsistent user interface issue was addressed with improved state management.

CVE-2017-7085: xisigr of Tencent's Xuanwu Lab (tencent.com)

Security

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: A revoked certificate may be trusted

Description: A certificate validation issue existed in the handling of revocation data. This issue was addressed through improved validation.

CVE-2017-7080: an anonymous researcher, an anonymous researcher, Sven Driemecker of adesso mobile solutions gmbh, Rune Darrud (@theflyingcorpse) of Bærum kommune

Entry added September 25, 2017

Security

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: A malicious app may be able to track users between installs

Description: A permission checking issue existed in the handling of an app's Keychain data. This issue was addressed with improved permission checking.

CVE-2017-7146: an anonymous researcher

Entry added September 25, 2017

SQLite

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Multiple issues in SQLite

Description: Multiple issues were addressed by updating to version 3.19.3.

CVE-2017-10989: found by OSS-Fuzz

CVE-2017-7128: found by OSS-Fuzz

CVE-2017-7129: found by OSS-Fuzz

CVE-2017-7130: found by OSS-Fuzz

Entry added September 25, 2017

SQLite

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

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

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

CVE-2017-7127: an anonymous researcher

Entry added September 25, 2017

Time

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: "Setting Time Zone" may incorrectly indicate that it is using location

Description: A permissions issue existed in the process that handles time zone information. The issue was resolved by modifying permissions.

CVE-2017-7145: an anonymous researcher

Entry added September 25, 2017

WebKit

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

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

Description: A memory corruption issue was addressed through improved input validation.

CVE-2017-7081: Apple

Entry added September 25, 2017

WebKit

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th 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-2017-7087: Apple

CVE-2017-7091: Wei Yuan of Baidu Security Lab working with Trend Micro's Zero Day Initiative

CVE-2017-7092: Samuel Gro and Niklas Baumstark working with Trend Micro's Zero Day Initiative, Qixun Zhao (@S0rryMybad) of Qihoo 360 Vulcan Team

CVE-2017-7093: Samuel Gro and Niklas Baumstark working with Trend Micro's Zero Day Initiative

CVE-2017-7094: Tim Michaud (@TimGMichaud) of Leviathan Security Group

CVE-2017-7095: Wang Junjie, Wei Lei, and Liu Yang of Nanyang Technological University working with Trend Micro's Zero Day Initiative

CVE-2017-7096: Wei Yuan of Baidu Security Lab

CVE-2017-7098: Felipe Freitas of Instituto Tecnológico de Aeronáutica

CVE-2017-7099: Apple

CVE-2017-7100: Masato Kinugawa and Mario Heiderich of Cure53

CVE-2017-7102: Wang Junjie, Wei Lei, and Liu Yang of Nanyang Technological University

CVE-2017-7104: likemeng of Baidu Security Lab

CVE-2017-7107: Wang Junjie, Wei Lei, and Liu Yang of Nanyang Technological University

CVE-2017-7111: likemeng of Baidu Security Lab (xlab.baidu.com) working with Trend Micro's Zero Day Initiative

CVE-2017-7117: lokihardt of Google Project Zero

CVE-2017-7120: chenqin (陈钦) of Ant-financial Light-Year Security Lab

Entry added September 25, 2017

WebKit

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Processing maliciously crafted web content may lead to universal cross site scripting

Description: A logic issue existed in the handling of the parent-tab. This issue was addressed with improved state management.

CVE-2017-7089: Anton Lopanitsyn of ONSEC, Frans Rosén of Detectify

WebKit

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Cookies belonging to one origin may be sent to another origin

Description: A permissions issue existed in the handling of web browser cookies. This issue was addressed by no longer returning cookies for custom URL schemes.

CVE-2017-7090: Apple

Entry added September 25, 2017

WebKit

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Visiting a malicious website may lead to address bar spoofing

Description: An inconsistent user interface issue was addressed with improved state management.

CVE-2017-7106: Oliver Paukstadt of Thinking Objects GmbH (to.com)

WebKit

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Processing maliciously crafted web content may lead to a cross site scripting attack

Description: Application Cache policy may be unexpectedly applied.

CVE-2017-7109: avlidenbrunn

Entry added September 25, 2017

WebKit

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: A malicious website may be able to track users in Safari private browsing mode

Description: A permissions issue existed in the handling of web browser cookies. This issue was addressed with improved restrictions.

CVE-2017-7144: an anonymous researcher

Entry added September 25, 2017

Wi-Fi

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: An attacker within range may be able to execute arbitrary code on the Wi-Fi chip

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

CVE-2017-11120: Gal Beniamini of Google Project Zero

CVE-2017-11121: Gal Beniamini of Google Project Zero

Entry added September 25, 2017

Wi-Fi

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Malicious code executing on the Wi-Fi chip may be able to execute arbitrary code with kernel privileges on the application processor

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

CVE-2017-7103: Gal Beniamini of Google Project Zero

CVE-2017-7105: Gal Beniamini of Google Project Zero

CVE-2017-7108: Gal Beniamini of Google Project Zero

CVE-2017-7110: Gal Beniamini of Google Project Zero

CVE-2017-7112: Gal Beniamini of Google Project Zero

Wi-Fi

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Malicious code executing on the Wi-Fi chip may be able to execute arbitrary code with kernel privileges on the application processor

Description: Multiple race conditions were addressed through improved validation.

CVE-2017-7115: Gal Beniamini of Google Project Zero

Wi-Fi

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Malicious code executing on the Wi-Fi chip may be able to read restricted kernel memory

Description: A validation issue was addressed with improved input sanitization.

CVE-2017-7116: Gal Beniamini of Google Project Zero

Wi-Fi

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: A attacker within range may be able to read restricted memory from the Wi-Fi chipset

Description: A validation issue was addressed with improved input sanitization.

CVE-2017-11122: Gal Beniamini of Google Project Zero

Entry added October 2, 2017

zlib

Available for: iPhone 5s and later, iPad Air and later, and iPod touch 6th generation

Impact: Multiple issues in zlib

Description: Multiple issues were addressed by updating to version 1.2.11.

CVE-2016-9840

CVE-2016-9841

CVE-2016-9842

CVE-2016-9843

Entry added September 25, 2017

Additional recognition

Security

We would like to acknowledge Abhinav Bansal of Zscaler, Inc. for their assistance.

Webkit

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