

# About the security content of macOS High Sierra 10.13.1, Security Update 2017-001 Sierra, and Security Update 2017-004 El Capitan

This document describes the security content of macOS High Sierra 10.13.1, Security Update 2017-001 Sierra, and Security Update 2017-004 El Capitan.

## About Apple security updates

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

## macOS High Sierra 10.13.1, Security Update 2017-001 Sierra, and Security Update 2017-004 El Capitan

Released October 31, 2017

### apache

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Multiple issues in Apache

Description: Multiple issues were addressed by updating to version 2.4.27.

CVE-2016-0736

CVE-2016-2161

CVE-2016-5387

CVE-2016-8740

CVE-2016-8743

CVE-2017-3167

CVE-2017-3169

CVE-2017-7659

CVE-2017-7668

CVE-2017-7679

CVE-2017-9788

## CVE-2017-9789

Entry updated November 14, 2017

### APFS

Available for: macOS High Sierra 10.13

Impact: A malicious Thunderbolt adapter may be able to recover unencrypted APFS filesystem data

Description: An issue existed in the handling of DMA. This issue was addressed by limiting the time the FileVault decryption buffers are DMA mapped to the duration of the I/O operation.

CVE-2017-13786: Dmytro Oleksiuk

Entry updated November 10, 2017

### APFS

Available for: macOS High Sierra 10.13

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-2017-13800: Sergej Schumilo of Ruhr-University Bochum

### AppleScript

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Decompiling an AppleScript with osadecompile may lead to arbitrary code execution

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

CVE-2017-13809: bat0s

Entry updated November 10, 2017

### ATS

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

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

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

CVE-2017-13820: John Villamil, Doyensec

### Audio

Available for: macOS Sierra 10.12.6

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

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

CVE-2017-13807: Yangkang (@dnpushme) of Qihoo 360 Qex Team

Entry updated January 22, 2019

### CFNetwork

About the security content of macOS High Sierra 10.13.1, Security Update 2017-001 Sierra, and Security Update ...  
Available for: OS X El Capitan 10.11.6, and macOS Sierra 10.12.6

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-2017-13829: Niklas Baumstark and Samuel Gro working with Trend Micro's Zero Day Initiative

CVE-2017-13833: Niklas Baumstark and Samuel Gro working with Trend Micro's Zero Day Initiative

Entry added November 10, 2017

### **CFString**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: An application may be able to read restricted memory

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

CVE-2017-13821: Australian Cyber Security Centre – Australian Signals Directorate

### **CoreText**

Available for: OS X El Capitan 10.11.6, macOS Sierra 10.12.6

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

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

CVE-2017-13825: Australian Cyber Security Centre – Australian Signals Directorate

Entry updated November 16, 2018

### **curl**

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Uploading using TFTP to a maliciously crafted URL with libcurl may disclose application memory

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

CVE-2017-1000100: Even Rouault, found by OSS-Fuzz

### **curl**

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Processing a maliciously crafted URL with libcurl may cause unexpected application termination or read process memory

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

CVE-2017-1000101: Brian Carpenter, Yongji Ouyang

### **Dictionary Widget**

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Searching pasted text in the Dictionary widget may lead to compromise of user information

Description: A validation issue existed which allowed local file access. This was addressed with input sanitization.

About the security content of macOS High Sierra 10.13.1, Security Update 2017-001 Sierra, and Security Update ...  
CVE-2017-13801: xisigr of Tencent's Xuanwu Lab (tencent.com)

#### **file**

Available for: macOS Sierra 10.12.6

Impact: Multiple issues in file

Description: Multiple issues were addressed by updating to version 5.31.

CVE-2017-13815: found by OSS-Fuzz

Entry updated October 18, 2018

#### **Fonts**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Rendering untrusted text may lead to spoofing

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

CVE-2017-13828: Leonard Grey and Robert Sesek of Google Chrome

Entry updated November 10, 2017

#### **fsck\_msdos**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

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-2017-13811: V.E.O. (@VYSEa) of Mobile Advanced Threat Team of Trend Micro

Entry updated November 2, 2017

#### **HFS**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

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-2017-13830: Sergej Schumilo of Ruhr-University Bochum

#### **Heimdal**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

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 with improved validation.

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

Entry updated January 22, 2019

#### **HelpViewer**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: A quarantined HTML file may execute arbitrary JavaScript cross-origin

Description: A cross-site scripting issue existed in HelpViewer. This issue was addressed by removing the affected file.

About the security content of macOS High Sierra 10.13.1, Security Update 2017-001 Sierra, and Security Update ...  
CVE-2017-13819: Filippo Cavallarin of SecuriTeam Secure Disclosure

Entry updated November 10, 2017

### **ImageIO**

Available for: macOS Sierra 10.12.6

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

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

CVE-2017-13814: Australian Cyber Security Centre – Australian Signals Directorate

Entry updated November 16, 2018

### **ImageIO**

Available for: OS X El Capitan 10.11.6, macOS Sierra 10.12.6

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

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

CVE-2017-13831: Glen Carmichael

Entry updated April 3, 2019

### **IOAcceleratorFamily**

Available for: macOS Sierra 10.12.6

Impact: A malicious application may be able to elevate privileges

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

CVE-2017-13906

Entry added October 18, 2018

### **Kernel**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: A local user may be able to leak sensitive user information

Description: A permissions issue existed in kernel packet counters. This issue was addressed with improved permission validation.

CVE-2017-13810: Zhiyun Qian of University of California, Riverside

Entry updated January 22, 2019

### **Kernel**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: A local user may be able to read kernel memory

Description: An out-of-bounds read issue existed that led to the disclosure of kernel memory. This was addressed with improved input validation.

CVE-2017-13817: Maxime Villard (m00nbsd)

### **Kernel**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: An application may be able to read restricted memory

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

CVE-2017-13818: The UK's National Cyber Security Centre (NCSC)

CVE-2017-13836: Vlad Tsyrklevich

CVE-2017-13841: Vlad Tsyrklevich

CVE-2017-13840: Vlad Tsyrklevich

CVE-2017-13842: Vlad Tsyrklevich

CVE-2017-13782: Kevin Backhouse of Semmler Ltd.

Entry updated June 18, 2018

### **Kernel**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

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-2017-13843: an anonymous researcher, an anonymous researcher

### **Kernel**

Available for: macOS Sierra 10.12.6

Impact: Processing a malformed mach binary may lead to arbitrary code execution

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

CVE-2017-13834: Maxime Villard (m00nbsd)

Entry updated January 22, 2019

### **Kernel**

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6

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-2017-13799: Lufeng Li of Qihoo 360 Vulcan Team

Entry updated November 10, 2017

### **Kernel**

Available for: macOS High Sierra 10.13

Impact: A malicious application may be able to learn information about the presence and operation of other applications on the device.

Description: An application was able to access process information maintained by the operating system unrestricted. This issue was addressed with rate limiting.

CVE-2017-13852: Xiaokuan Zhang and Yinqian Zhang of The Ohio State University, Xueqiang Wang and XiaoFeng Wang of Indiana University Bloomington, and Xiaolong Bai of Tsinghua University

Entry added November 10, 2017, updated January 22, 2019

### **libarchive**

Available for: OS X El Capitan 10.11.6, macOS Sierra 10.12.6

Impact: Unpacking a maliciously crafted archive may lead to arbitrary code execution

Description: Multiple memory corruption issues existed in libarchive. These issues were addressed with improved input validation.

CVE-2017-13813: found by OSS-Fuzz

Entry updated November 16, 2018, updated January 22, 2019

**libarchive**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Unpacking a maliciously crafted archive may lead to arbitrary code execution

Description: Multiple memory corruption issues existed in libarchive. These issues were addressed with improved input validation.

CVE-2017-13812: found by OSS-Fuzz

Entry updated January 22, 2019

**libarchive**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: An application may be able to read restricted memory

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

CVE-2016-4736: Proteas of Qihoo 360 Nirvan Team

Entry updated December 21, 2017

**libxml2**

Available for: OS X El Capitan 10.11.6, macOS Sierra 10.12.6

Impact: Processing maliciously crafted XML may lead to an unexpected application termination or arbitrary code execution

Description: A null pointer dereference was addressed with improved validation.

CVE-2017-5969: Gustavo Grieco

Entry added October 18, 2018

**libxml2**

Available for: OS X El Capitan 10.11.6

Impact: Processing maliciously crafted XML may lead to an unexpected application termination or arbitrary code execution

Description: A buffer overflow issue was addressed with improved memory handling.

CVE-2017-5130: an anonymous researcher

CVE-2017-7376: an anonymous researcher

Entry added October 18, 2018

**libxml2**

Available for: macOS Sierra 10.12.6

Impact: Processing maliciously crafted XML may lead to an unexpected application termination or arbitrary code execution

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

CVE-2017-9050: Mateusz Jurczyk (j00ru) of Google Project Zero

Entry added October 18, 2018

### **libxml2**

Available for: macOS Sierra 10.12.6

Impact: Processing maliciously crafted XML may lead to an unexpected application termination or arbitrary code execution

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

CVE-2017-9049: Wei Lei and Liu Yang - Nanyang Technological University in Singapore

Entry added October 18, 2018

### **LinkPresentation**

Available for: macOS High Sierra 10.13

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

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

CVE-2018-4390: Rayyan Bijoor (@Bijoor) of The City School, PAF Chapter

CVE-2018-4391: Rayyan Bijoor (@Bijoor) of The City School, PAF Chapter

Entry added November 16, 2018

### **Login Window**

Available for: macOS High Sierra 10.13

Impact: The screen lock may unexpectedly remain unlocked

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

CVE-2017-13907: an anonymous researcher

Entry added October 18, 2018

### **Open Scripting Architecture**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Decompiling an AppleScript with osadecompile may lead to arbitrary code execution

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

CVE-2017-13824: an anonymous researcher

### **PCRE**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Multiple issues in pcre

Description: Multiple issues were addressed by updating to version 8.40.

CVE-2017-13846

### **Postfix**

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Multiple issues in Postfix

Description: Multiple issues were addressed by updating to version 3.2.2.

CVE-2017-10140: an anonymous researcher

Entry updated November 17, 2017

### Quick Look

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: An application may be able to read restricted memory

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

CVE-2017-13822: Australian Cyber Security Centre – Australian Signals Directorate

### Quick Look

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: Parsing a maliciously crafted office document may lead to an unexpected application termination or arbitrary code execution

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

CVE-2017-7132: Australian Cyber Security Centre – Australian Signals Directorate

Entry updated January 22, 2019

### QuickTime

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: An application may be able to read restricted memory

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

CVE-2017-13823: Xiangkun Jia of Institute of Software Chinese Academy of Sciences

Entry updated November 10, 2017

### Remote Management

Available for: macOS Sierra 10.12.6

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-2017-13808: an anonymous researcher

### Sandbox

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

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-2017-13838: Alastair Houghton

Entry updated November 10, 2017

### Security

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6, OS X El Capitan 10.11.6

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

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

CVE-2017-7170: Patrick Wardle of Synack

Entry added January 11, 2018

### Security

Available for: macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: A malicious application can extract keychain passwords

Description: A method existed for applications to bypass the keychain access prompt with a synthetic click. This was addressed by requiring the user password when prompting for keychain access.

CVE-2017-7150: Patrick Wardle of Synack

Entry added November 17, 2017

### SMB

Available for: OS X El Capitan 10.11.6, macOS Sierra 10.12.6

Impact: A local attacker may be able to execute non-executable text files via an SMB share

Description: An issue in handling file permissions was addressed with improved validation.

CVE-2017-13908: an anonymous researcher

Entry added October 18, 2018

### StreamingZip

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: A malicious zip file may be able modify restricted areas of the file system

Description: A path handling issue was addressed with improved validation.

CVE-2017-13804: @qwertyoruiopz at KJC Research Intl. S.R.L.

### tcpdump

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6

Impact: Multiple issues in tcpdump

Description: Multiple issues were addressed by updating to version 4.9.2.

CVE-2017-11108

CVE-2017-11541

CVE-2017-11542

CVE-2017-11543

CVE-2017-12893

CVE-2017-12894

CVE-2017-12895

CVE-2017-12896

CVE-2017-12897

CVE-2017-12898

CVE-2017-12899

- CVE-2017-12900
- CVE-2017-12901
- CVE-2017-12902
- CVE-2017-12985
- CVE-2017-12986
- CVE-2017-12987
- CVE-2017-12988
- CVE-2017-12989
- CVE-2017-12990
- CVE-2017-12991
- CVE-2017-12992
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- CVE-2017-13006
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- CVE-2017-13046
- CVE-2017-13047
- CVE-2017-13048
- CVE-2017-13049
- CVE-2017-13050
- CVE-2017-13051

CVE-2017-13052

CVE-2017-13053

CVE-2017-13054

CVE-2017-13055

CVE-2017-13687

CVE-2017-13688

CVE-2017-13689

CVE-2017-13690

CVE-2017-13725

**Wi-Fi**

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: An attacker in Wi-Fi range may force nonce reuse in WPA unicast/PTK clients (Key Reinstallation Attacks - KRACK)

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

CVE-2017-13077: Mathy Vanhoef of the imec-DistriNet group at KU Leuven

CVE-2017-13078: Mathy Vanhoef of the imec-DistriNet group at KU Leuven

Entry updated November 3, 2017

**Wi-Fi**

Available for: macOS High Sierra 10.13, macOS Sierra 10.12.6, OS X El Capitan 10.11.6

Impact: An attacker in Wi-Fi range may force nonce reuse in WPA multicast/GTK clients (Key Reinstallation Attacks - KRACK)

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

CVE-2017-13080: Mathy Vanhoef of the imec-DistriNet group at KU Leuven

Entry updated November 3, 2017

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Helpful?

Yes

No