CVE-2016-4778

MITRE | NVD | CVE.ORG | JSON API | Print: PDF

Summary

CVE	CVE-2016-4778
State	PUBLISHED
Assigner	apple
Source Priority	CVE Program / NVD first with legacy fallback
Published	2016-09-25 11:00:10 UTC
Updated	2026-05-06 22:30:45 UTC
Description	The kernel in Apple iOS before 10, OS X before 10.12, tvOS before 10, and watchOS before 3 allows attackers to execute

Risk And Classification

Primary CVSS: v3.0 7.8 HIGH from nvd@nist.gov

CVSS:3.0/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

EPSS: 0.005100000 probability, percentile 0.664920000 (date 2026-05-07)

Problem Types: CWE-264 | n/a

Version	Source	Type	Score	Severity	Vector
3.0	nvd@nist.gov	Primary	7.8	HIGH	CVSS:3.0/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H
2.0	nvd@nist.gov	Primary	9.3		AV:N/AC:M/Au:N/C:C/I:C/A:C

CVSS v3.0 Breakdown

Attack Vector

Local

Attack Complexity

Low

Privileges Required

None

User Interaction

Required

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

CVSS:3.0/AV:L/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

CVSS v2.0 Breakdown

Access Vector

Network

Access Complexity

Medium

Authentication

None

Confidentiality

Complete

Integrity

Complete

Availability

Complete

AV:N/AC:M/Au:N/C:C/I:C/A:C

NVD Known Affected Configurations (CPE 2.3)

Type	Vendor	Product	Version	Update	Edition	Language
Operating System	Apple	Iphone Os	All	All	All	All
Operating System	Apple	Mac Os X	All	All	All	All
Operating System	Apple	Tvos	All	All	All	All
Operating System	Apple	Watchos	All	All	All	All

Vendor Declared Affected Products

Source	Vendor	Product	Version	Platforms
CNA	Na	N/a	affected n/a	Not specified

References

Reference
APPLE-SA-2016-09-20-5 watchOS 3
About the security content of iOS 10 - Apple Support
About the security content of tvOS 10 - Apple Support
About the security content of macOS Sierra 10.12 - Apple Support
About the security content of watchOS 3 - Apple Support
APPLE-SA-2016-09-20 macOS Sierra 10.12

APPLE-SA-2016-09-20-6 tvOS 10
Apple iOS/tvOS/MacOS/watchOS Multiple Security Vulnerabilities
Apple macOS/OS X Multiple Flaws Let Remote and Local Users Deny Service, Obtain Potentially Sensitive Information, Execute Arbitrary Coc
APPLE-SA-2016-09-20-3 iOS 10
CVE Program record
NVD vulnerability detail

No vendor comments have been submitted for this CVE.

There are currently no legacy QID mappings associated with this CVE.

Free CVE JSON API cve.report/api

CVE.report and Source URL Uptime Status **status.cve.report**