



CVE-2025-31277

[MITRE](#)[NVD](#)[CVE.ORG](#)[JSON API](#)[Print: PDF](#)

Summary

| | |
|------------------------|---|
| CVE | CVE-2025-31277 |
| State | PUBLISHED |
| Assigner | apple |
| Source Priority | CVE Program / NVD first with legacy fallback |
| Published | 2025-07-30 00:15:30 UTC |
| Updated | 2026-04-03 14:30:40 UTC |
| Description | The issue was addressed with improved memory handling. This issue is fixed in Safari 18.6, iOS 18.6 and iPadOS 18.6, macOS 15.3, and tvOS 18.6. |

Risk And Classification

Primary CVSS: v3.1 8.8 HIGH from ADP

CVSS: 3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

EPSS: 0.001760000 probability, percentile 0.391630000 (date 2026-04-09)

CISA KEV: Listed on 2026-03-20; due 2026-04-03; ransomware use Unknown

Problem Types: CWE-119 | Processing maliciously crafted web content may lead to memory corruption | CWE-119 CWE-119 Improper Restriction of Operations within the Bounds of a Memory Buffer

| Version | Source | Type | Score | Severity | Vector |
|---------|--------------------------------------|-----------|-------|----------|--|
| 3.1 | ADP | DECLARED | 8.8 | HIGH | CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H |
| 3.1 | 134c704f-9b21-4f2e-91b3-4a467353bcc0 | Secondary | 8.8 | HIGH | CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H |

CVSS v3.1 Breakdown

Attack Vector

Network

Attack Complexity

Low

Privileges Required

None

User Interaction

Required

Scope

Unchanged

Confidentiality

High

Integrity

High

Availability

High

CVSS:3.1/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H

CISA Known Exploited Vulnerability

| | |
|------------------------|---|
| Vendor | Apple |
| Product | Multiple Products |
| Name | Apple Multiple Products Buffer Overflow Vulnerability |
| Required Action | Apply mitigations per vendor instructions, follow applicable BOD 22-01 guidance for cloud services, or discontinue use of the product if mitigations are unavailable. |
| Notes | https://support.apple.com/en-us/124147 ; https://support.apple.com/en-us/124149 ; https://support.apple.com/en-us/124152 ; https://support.apple.com/en-us/124153 ; https://support.apple.com/en-us/124155 ; https://nvd.nist.gov/vuln/detail/CVE-2025-31277 |

NVD Known Affected Configurations (CPE 2.3)

| Type | Vendor | Product | Version | Update | Edition | Language |
|------------------|--------|-----------|---------|--------|---------|----------|
| Operating System | Apple | Ipados | All | All | All | All |
| Operating System | Apple | Iphone Os | All | All | All | All |
| Operating System | Apple | Macos | All | All | All | All |
| Application | Apple | Safari | All | All | All | All |
| Operating System | Apple | Tvos | All | All | All | All |
| Operating System | Apple | Visionos | All | All | All | All |
| Operating System | Apple | Watchos | All | All | All | All |

Vendor Declared Affected Products

| Source | Vendor | Product | Version | Platforms |
|--------|--------|----------------|----------------------|---------------|
| CNA | Apple | Safari | affected 18.6 custom | Not specified |
| CNA | Apple | IOS And IPadOS | affected 18.6 custom | Not specified |
| CNA | Apple | MacOS | affected 15.6 custom | Not specified |
| CNA | Apple | TvOS | affected 18.6 custom | Not specified |
| CNA | Apple | VisionOS | affected 2.6 custom | Not specified |
| CNA | Apple | WatchOS | affected 11.6 custom | Not specified |

References

| Reference | Source | Link |
|---|--------------------------------------|---|
| seclists.org/fulldisclosure/2025/Jul/32 | af854a3a-2127-422b-91ae-364da2661108 | seclists.org |
| support.apple.com/en-us/124152 | product-security@apple.com | support.apple.com |
| support.apple.com/en-us/124149 | product-security@apple.com | support.apple.com |
| cloud.google.com/blog/topics/threat-intelligence/darksword-ios-exploit-chain | 134c704f-9b21-4f2e-91b3-4a467353bcc0 | cloud.google.com |
| www.cisa.gov/known-exploited-vulnerabilities-catalog | 134c704f-9b21-4f2e-91b3-4a467353bcc0 | www.cisa.gov |
| seclists.org/fulldisclosure/2025/Jul/36 | af854a3a-2127-422b-91ae-364da2661108 | seclists.org |
| seclists.org/fulldisclosure/2025/Aug/0 | af854a3a-2127-422b-91ae-364da2661108 | seclists.org |
| support.apple.com/en-us/124154 | product-security@apple.com | support.apple.com |
| support.apple.com/en-us/124155 | product-security@apple.com | support.apple.com |
| support.apple.com/en-us/124147 | product-security@apple.com | support.apple.com |
| support.apple.com/en-us/124153 | product-security@apple.com | support.apple.com |
| seclists.org/fulldisclosure/2025/Jul/30 | af854a3a-2127-422b-91ae-364da2661108 | seclists.org |
| CVE Program record | CVE.ORG | www.cve.org |
| NVD vulnerability detail | NVD | nvd.nist.gov |
| CISA Known Exploited Vulnerabilities catalog | CISA | www.cisa.gov |

No vendor comments have been submitted for this CVE.

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

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