

# About the security content of tvOS 18.6

This document describes the security content of tvOS 18.6.

## About Apple security updates

For our customers' protection, Apple doesn't disclose, discuss, or confirm security issues until an investigation has occurred and patches or releases are available. Recent releases are listed on the [Apple security releases](#) page.

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

For more information about security, see the [Apple Product Security](#) page.

## tvOS 18.6

Released July 29, 2025

### afclip

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Parsing a file may lead to an unexpected app termination

Description: The issue was addressed with improved memory handling.

CVE-2025-43186: Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative

### CFNetwork

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: A non-privileged user may be able to modify restricted network settings

Description: A denial-of-service issue was addressed with improved input validation.

CVE-2025-43223: Andreas Jaegersberger & Ro Achterberg of Nosebeard Labs

### CoreAudio

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing a maliciously crafted audio file may lead to memory corruption

Description: The issue was addressed with improved memory handling.

CVE-2025-43277: Google's Threat Analysis Group

### CoreMedia

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing a maliciously crafted media file may lead to unexpected app termination or corrupt process memory

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

CVE-2025-43210: Hossein Lotfi (@hosselot) of Trend Micro Zero Day Initiative

## CoreMedia Playback

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: An app may be able to access user-sensitive data

Description: The issue was addressed with additional permissions checks.

CVE-2025-43230: Chi Yuan Chang of ZUSO ART and taikosoup

## ICU

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may lead to an unexpected Safari crash

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

CVE-2025-43209: Gary Kwong working with Trend Micro Zero Day Initiative

## ImageIO

Available for: Apple TV HD and Apple TV 4K (all models)

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

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

CVE-2025-43226

## Kernel

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: An app may be able to cause unexpected system termination

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

CVE-2025-43282: Christian Kohlschütter

Entry added October 15, 2025

## libxml2

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing a file may lead to memory corruption

Description: This is a vulnerability in open source code and Apple Software is among the affected projects. The CVE-ID was assigned by a third party. Learn more about the issue and CVE-ID at [cve.org](https://cve.org).

CVE-2025-7425: Sergei Glazunov of Google Project Zero

## libxslt

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may lead to memory corruption

Description: This is a vulnerability in open source code and Apple Software is among the affected projects. The CVE-ID was assigned by a third party. Learn more about the issue and CVE-ID at [cve.org](https://cve.org).

CVE-2025-7424: Ivan Fratric of Google Project Zero

## Metal

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing a maliciously crafted texture may lead to unexpected app termination

Description: Multiple memory corruption issues were addressed with improved input validation.

CVE-2025-43234: Vlad Stolyarov of Google's Threat Analysis Group

## Model I/O

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing a maliciously crafted media file may lead to unexpected app termination or corrupt process memory

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

CVE-2025-43224: Michael DePlante (@izobashi) of Trend Micro Zero Day Initiative

CVE-2025-43221: Michael DePlante (@izobashi) of Trend Micro Zero Day Initiative

## Model I/O

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing a maliciously crafted file may lead to unexpected app termination

Description: An input validation issue was addressed with improved memory handling.

CVE-2025-31281: Michael DePlante (@izobashi) of Trend Micro Zero Day Initiative

## SQLite

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing a file may lead to memory corruption

Description: This is a vulnerability in open source code and Apple Software is among the affected projects. The CVE-ID was assigned by a third party. Learn more about the issue and CVE-ID at [cve.org](https://cve.org).

CVE-2025-6965

Entry added October 15, 2025

## WebKit

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may disclose sensitive user information

Description: This issue was addressed through improved state management.

WebKit Bugzilla: 292888

CVE-2025-43227: Gilad Moav, Yehuda Afek, Anat Bremler-Barr, and Amit Klein

Entry updated October 15, 2025

## WebKit

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may lead to memory corruption

Description: The issue was addressed with improved memory handling.

WebKit Bugzilla: 291742

CVE-2025-31278: Yuhao Hu, Yan Kang, Chenggang Wu, and Xiaojie Wei

WebKit Bugzilla: 291745

CVE-2025-31277: Yuhao Hu, Yan Kang, Chenggang Wu, and Xiaojie Wei

WebKit Bugzilla: 293579

CVE-2025-31273: Yuhao Hu, Yan Kang, Chenggang Wu, and Xiaojie Wei

## WebKit

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may lead to an unexpected Safari crash

Description: The issue was addressed with improved memory handling.

WebKit Bugzilla: 292599

CVE-2025-43214: shandikri working with Trend Micro Zero Day Initiative, Google V8 Security Team

WebKit Bugzilla: 292621

CVE-2025-43213: Google V8 Security Team

WebKit Bugzilla: 293197

CVE-2025-43212: Nan Wang (@eternalsakura13) and Ziling Chen

## WebKit

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing web content may lead to a denial-of-service

Description: The issue was addressed with improved memory handling.

WebKit Bugzilla: 293730

CVE-2025-43211: Yuhao Hu, Yan Kang, Chenggang Wu, and Xiaojie Wei

## WebKit

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may disclose internal states of the app

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

WebKit Bugzilla: 294182

CVE-2025-43265: HexRabbit (@h3xr4bb1t) from DEVCORE Research Team

## WebKit

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may lead to an unexpected Safari crash

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

WebKit Bugzilla: 295382

CVE-2025-43216: Ignacio Sanmillan (@ulexec)

## WebKit

Available for: Apple TV HD and Apple TV 4K (all models)

Impact: Processing maliciously crafted web content may lead to an unexpected Safari crash

Description: This is a vulnerability in open source code and Apple Software is among the affected projects. The CVE-ID was assigned by a third party. Learn more about the issue and CVE-ID at [cve.org](https://cve.org).

WebKit Bugzilla: 296459

CVE-2025-6558: Clément Lecigne and Vlad Stolyarov of Google's Threat Analysis Group

## Additional recognition

### Bluetooth

We would like to acknowledge Lidong LI, Xiao Wang, Shao Dong Chen, and Chao Tan of Source Guard for their assistance.

### CoreAudio

We would like to acknowledge Noah Weinberg for their assistance.

### libxml2

We would like to acknowledge Sergei Glazunov of Google Project Zero for their assistance.

### libxslt

We would like to acknowledge Ivan Fratric of Google Project Zero for their assistance.

# WebKit

We would like to acknowledge Google V8 Security Team, Yuhao Hu, Yan Kang, Chenggang Wu, and Xiaojie Wei, rheza (@ginggilBesel) for their assistance.

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Helpful?

Yes

No

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