

# tvOS 11.3 beta 3 Release Notes

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# Introduction

The tvOS 11.3 SDK leverages many of the same frameworks and technologies that you're already using for iOS development. However, please note that all libraries and frameworks used in your tvOS apps must be built for tvOS, including any 3rd-party libraries. Do not link your tvOS app against frameworks or libraries that are not built with tvOS. Attempting to do so results in a build failure. Furthermore, bitcode is required for all tvOS apps. All apps and frameworks in the app bundle must include bitcode.

## About tvOS 11.3 beta 3

tvOS 11.3 includes new features, bug fixes, and security improvements in the OS and SDK, including:

- Enhancements to Match Content support.
- Automatic frame rate switching on Apple TV (4th generation).
- Automatic mode switching for AirPlay video sessions.

The tvOS 11.3 SDK provides support for developing tvOS apps for tvOS 11.3. The SDK comes bundled with Xcode 9.3 available from the Apple Developer Program download page.

For information on the compatibility requirements for Xcode 9.3, see the Release Notes on the Xcode download page. Bug Reporting

For issues not mentioned in [Notes and Known Issues](#), file bugs through the Apple Developer website <https://developer.apple.com/bug-reporting/>.

When filing a bug, please include the full version number in the bug title and in the description. This looks like "11.3 (15Lxxxx)." You can find the full version number in Settings > General > About > tvOS.

### Technical Support and Learning Resources

Apple provides the following resources to support your development:

- Developer documentation is available both on <https://developer.apple.com/documentation> and from Xcode by choosing Help > Developer Documentation.
- [Apple Developer Forums](#). Participate in discussions about developing for Apple platforms and using developer tools.
- [tvOS 11.3 Developer Forums](#). Participate in discussions about developing for tvOS 11 and issues with the SDK.
- [iCloud Developer Page](#). Find information about developing for iCloud.
- [tvOS homepage](#). Get high-level information about the latest release of tvOS. Download current and beta tvOS releases.
- For help with using Xcode, choose Help > Xcode Help.

# Notes and Known Issues

## General

### Resolved Issues

- The TV Provider sign-in prompt is now shown on initial tvOS setup screens. (36559610)
- Backgrounding an app that was launched with a restrictions PIN code no longer causes Home Screen instability. (36845891)

## Foundation

### Known Issues

- Clients of `NSURLSessionStreamTask` that use a non-secure connection fail to connect when an error occurs during PAC file evaluation and the system is configured for either Web Proxy Auto Discovery (WPAD) or Proxy Automatic Configuration (PAC). A PAC evaluation failure can occur when the PAC file contains invalid JavaScript or the HTTP host serving the PAC file is unreachable. (33609198)

**Workaround:** Use `startSecureConnection` to establish a secure connection.

## Mobile Device Management

### New Features

- Added the following settings to device management. For more information, see the [Configuration Profile Reference](#) and [MDM Protocol Reference](#).
  - Restrict explicit music and bookstore erotica by rating.
  - Restrict apps, movies and TV shows by rating.
  - Skip the Privacy screen during setup.
  - Restrict Remote app connections to specified iOS devices.
  - Update an app while in Single App Mode.

### Resolved Issues

- Skipping all setup screens now works correctly when using an MDM server configuration with Device Enrollment Program supervised devices. (35919886)
- Upgrading a supervised device no longer requires a remote to complete the upgrade. (36674710)

## Mode Switching

### New Issue

- Application UI now successfully resumes the system default frame rate or dynamic range when suspending a video player. (37094440)

## New Features

- Added support for automatic frame rate to AVKit for Apple TV (4th generation). Apps that don't use AVKit for video playback can add support using APIs previously introduced in the tvOS 11.2 SDK. For more information, see: <https://developer.apple.com/fall17/503>.

## On-Demand Resources

### Resolved Issues

- Conditionally pinned on-demand resource loading (using `conditionallyBeginAccessingResourcesWithCompletionHandler`) now works correctly when upgrading to tvOS 11.3 (36836402)
- On-demand resources now work correctly in the tvOS simulator (36554589)
- Resources embedded directly in asset packs in the product bundle are now loaded properly. (37089083)

## TVMLKit / Web Inspector

### Resolved Issue

- `oneupTemplate` now renders full screen images. (37045770)

### New Features

- Enhanced the prototype element to provide different structure through the use of queries and enhanced binding support to bind the children of a node.
- Added viewing of local and remote image resources for XHR requests to the Network tab of Safari Web Inspector.
- Clicking on the Start Element Selection button of Safari Web Inspector now opens the Elements tab to the focussed view of a TVMLKit app.