tvOS 12 beta Release Notes

About tvOS 12 beta

The tvOS 12 SDK provides support for developing tvOS apps for tvOS 12. The SDK comes bundled with Xcode 10 available from the Apple Developer Program download page.

For information on the compatibility requirements for Xcode 10, 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 "12 (*16Jxxxxx*)." 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 12 Developer Forums. Participate in discussions about developing for tvOS 12 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.

New in tvOS 12

tvOS 12 includes includes new features, bug fixes, and security improvements in the OS and SDK, including:

- Aerials enhancements
- Enhanced AV player integration and data binding support in TVMLKit
- Focus support for non-UIViews
- MDM Software Update command support
- Native TVML-style controls for UIKit
- Sandbox iTunes account support in Settings
- Secure password sharing from iOS devices
- Siri support for Find my iPhone

For more information, see What's New in tvOS 12 on developer.apple.com.

Notes and Known Issues

Accessibility

New Issues

- Platform switching for Switch Control is unavailable in this build. (40035312)

Aerials

Known Issues

- Location info is not currently available. (38202270)

Apple TV Remote Keyboard

New Issues

- Keyboard notifications might unexpectedly appear on a companion iOS device when waking Apple TV from sleep. (40029886)

  Workaround: Temporarily disable Apple TV Keyboard in Settings > Notifications > Apple TV Keyboard on your iOS device.

- Text input might be unreliable when using iOS 11 based devices. (40029886)

Bug Reporting

New Issues

- Collecting an Apple TV sysdiagnose doesn't work when using the Switch Control Analytics option. (40504710)

  Workaround: Use of the Siri remote button combination is required. For more information, see Apple TV sysdiagnose instructions.

Network-Based Device Pairing

New Issues

- PIN pairing with a remote Apple TV might not successfully establish the connection on the first attempt. (40228498)

  Workaround: Exit and reenter the Remotes and Devices pairing screen on Apple TV, then reattempt the pair request in Xcode.

Mobile Device Management

New Issues

- The DeviceInformation query doesn't return the `DeviceID` key. (39990192)

Model I/O

New Issues

- In `.obj` models, the bump semantics in .mtl files do not map to `MDLMaterialSemanticTangentSpaceNormal`. (40665817)

  Workaround: Use `MDLMaterialSemanticBump` instead.

Network

New Issues

- Apps that use the new Network framework with Swift projects can crash when launched from the Apple TV directly. (40464765)

  Workaround: Run the affected app from Xcode.

NSURLSession

New Features

- The `NSURLSession` HTTP/2 implementation has been updated to support HTTP/2 connection reuse per RFC 7540 Section 9.1.1. This requires an HTTP/2 server to present a certificate which covers more than one server hostname. The certificate may use the Subject Alternative Name extension or wild-carded domain names. In addition, `NSURLSession` requires name resolution to resolve the different hostnames to the same IP address. `NSURLSession` might reuse HTTP/2 connections across different domain names when these conditions are satisfied. (37507838)

Deprecations

- FTP and File URL schemes for Proxy Automatic Configuration (PAC) are deprecated. HTTP and HTTPS are the only supported URL schemes for PAC. This affects all PAC configurations including, but not limited to, configurations set via Settings, System Preferences, profiles, and `URLSession` APIs such as `URLSessionConfiguration.connectionProxyDictionary`, and `CFNetworkExecuteProxyAutoConfigurationURL()`. (37811761)

On Demand Resources

New Issues

- The New Build System doesn't yet support On Demand Resources (ODR). (31508570)

Workaround: Use the Legacy Build System for projects requiring ODR (File > Project/ Workspace Settings).

Siri

New Issues

- Selection UI might be unavailable when conducting a Find my iPhone request that requires additional info. (40138175)

  Workaround: Hold down the Siri button and speak your response.

Siri Remote

New Issues

- Pressing MENU once might occasionally exit the active application. (40174189)

StoreKit

New Issues

- Authenticating with a sandbox account during an in-app purchase workflow might fail. (40639792)

  Workaround: Sign in to the sandbox account in Settings.

UIKit

New Issues

- Switching from an app's primary icon via a set of declared `CFBundleAlternateIcons` in the app's `Info.plist` is not currently reliable. (40312744)
- When reusing a `TVCaptionButton`, title and subtitle labels might fail to be cleared of previous strings. (40536194)