iOS SDK Release Notes for iOS 8.0 Beta 5

Important:

This is a preliminary document for an API or technology in development. Apple is supplying this information to help you plan for the adoption of the technologies and programming interfaces described herein for use on Apple-branded products. This information is subject to change, and software implemented according to this document should be tested with final operating system software and final documentation. Newer versions of this document may be provided with future betas of the API or technology.

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Introduction

iOS SDK 8.0 provides support for developing iOS apps. It is packaged with a complete set of Xcode tools, compilers, and frameworks for creating apps for iOS and OS X. These tools include the Xcode IDE and the Instruments analysis tool, among many others.

With this software you can develop apps for iPhone, iPad, or iPod touch running iOS 8. You can also test your apps using the included iOS Simulator, which supports iOS 8. iOS SDK 8.0 requires a Mac computer running OS X v10.9.3 (Mavericks) or later.

This version of iOS is intended for installation only on devices registered with the Apple Developer Program. Attempting to install this version of iOS in an unauthorized manner could put your device in an unusable state.

For more information and additional support resources, visit http://developer.apple.com/programs/ios/.

Bug Reporting

For issues not mentioned in the Notes and Known Issues section, please file bugs through the Apple Developer website (https://developer.apple.com/bug-reporting/ios/). Additionally, you may discuss these issues and iOS SDK 8.0 in the Apple Developer Forums: http://devforums.apple.com. To get more information about iCloud for Developers, go to http://developer.apple.com/icloud.

Notes and Known Issues

The following issues relate to using iOS SDK 8.0 to develop code.

AVCapture

Fixed in beta 5

- Use of the `AVCaptureDevice` method `rampToVideoZoomFactor:withRate:` will fail.

- In some configurations, the `maxBracketedCaptureStillImageCount` property on `AVCaptureStillImageOutput` will yield incorrect results.

Known Issue

Use of the new constant, `AVCaptureISOCurrent`, will result in inconsistent ISO values (as observed on the ISO property) if `setExposureModeCustomWithDuration:ISO:completionHandler:` is called repeatedly.

Backup and Restore

Fixed in beta 5

A restoration of an iCloud backup onto the same device the backup was taken from may not work properly. As a result, some apps may crash.

Known Issues

- Encrypted backups to iTunes fail.
- iOS 7 iCloud backups restored to an iOS 8 beta device may not properly restore photos.

CarPlay

Fixed in beta 5

The Now Playing screen is missing the Back button in the top-left corner.

CloudKit

Fixed in beta 5

Clients sending multiple simultaneous record update requests to the same zone in the private database may encounter `CKErrorZoneBusy` errors.

Workaround: Clients should send update requests for a given zone one at a time. In addition, they should handle `CKErrorZoneBusy` errors by retrying with an exponential backoff.

Contacts

Note

The Address Book UI people picker has been changed for iOS 8. A new mode with new API has been added where the app does not need access to the user's contacts and the user will not be prompted for access. A temporary copy of the selected person is returned to the app. See `ABPeoplePickerNavigationController.h` for more details.

As of iOS 8 beta 2, you must use the new mode. The old mode has been deprecated.

See the new *PeoplePicker: Picking a Person or Property* sample project demonstrating usage of the new mode.

Document Providers

Notes

- Your app needs the iCloud entitlement to be able to be used as a document provider.
- The com.apple.developer.icloud-container-identifiers entitlement will be required when iOS 8 is released.

Fixed in beta 5

- App icons in the document picker do not show up on iPhone and iPad.
- Document providers may hang when importing files.

Known Issues

- After rotating document picker to landscape, the status bar is hidden.
- Upon bringing up document picker in landscape, the containing view may be shifted beneath the navigation bar.
- On iPhone, bringing up DocMenu from Locations in DocPicker, overlaps with status bar.

Extensions

Known Issues

- Extensions need an arm64 slice to run on 64-bit devices. If you try to run the armv7 slice on a 64-bit device it won't work.
- Apps need to have an arm64 slice if the bundle contains a framework that both the app and the app extension link against.

Fixed in beta 5

- Keyboard extensions can now be profiled with Instruments.
- Extensions now more reliably support control of location access.
- After redeploying an app, the Today view extension may not be launched, and sometimes its bundle display name becomes the name of the app.

FaceTime

Fixed in beta 5

FaceTime does not work properly in landscape orientation.

Family Sharing

Known Issues

- Shared purchase history pages on Mac App Store and iOS App Store are disabled.
- Items already owned by family members must be re-downloaded from the Purchased page (not Store pages) to get them free of additional charge.

File System

Note

The file system layout of app containers has changed on disk. Rather than relying on hard-coded directory structure, use the `NSSearchPathForDirectoriesInDomains` function or the `URLForDirectory:inDomain:appropriateForURL:create:error:` method of the `NSFileManager` class. See Accessing Files and Directories in *File System Programming Guide*.

Find My Friends

Note

Now that the Share My Location feature is integrated into Messages, Find My Friends only supports the Apple ID configured in Settings > iCloud.

Fonts

Note

The Thai system font has increased in size to improve readability. This will cause clipping in many places in your UI if you don't take appropriate action:

1. Use `UILabel` as much as possible. If you use Interface Builder, make sure that Clip Subviews is not checked. UIKit will grow the clipping region as necessary to not clip text.
2. Use Dynamic Type. This will ensure that you do not have overlapping glyphs in multiline labels or text fields.

If you can't do 1 and 2 because you implement your own views, you must implement measures not to clip. You can use CoreText to figure out the appropriate clipping region for a line of text by calling:

- `CTLineGetBoundsWithOptions(lineRef, kCTLineBoundsIncludeLanguageExtents);`

To avoid overlapping glyphs in multiline text elements, adjust the line height. An additional 30% is recommended.

This measure will also help your app perform better in other languages, including Arabic, Hindi, and Vietnamese.

Handoff

Note

Handoff is incompatible between devices using this beta and the prior beta. You should test Handoff with the most recent beta software because it is not backward-compatible with previous betas.

HealthKit

Notes

- Spirometry data types are now available in HealthKit.
- Any blood type that was set in Medical ID prior to beta 3 will be cleared.
- The pairing UI for BTLE health devices has been removed from HealthKit and is now available in Settings > Bluetooth.
- The `HKWorkout` API is now available to store workouts.
- `HKQuantityTypeIdentifierGalvanicSkinResponse` has been renamed `HKQuantityTypeIdentifierElectrodermalActivity`.
- The following `HKObjectType` identifiers have been removed:
  - `HKQuantityTypeIdentifierRRInterval`
  - `HKQuantityTypeIdentifierHeatFlux`
  - `HKCorrelationTypeIdentifierHeartRateReading`

HomeKit

Note

- After upgrading to beta 5, you need to reset your home configuration in Settings > Privacy > HomeKit > Reset Home Configuration.
- You must sign into iCloud and enable Keychain sync to use HomeKit with this seed.

Known Issue

Siri may not immediately recognize HomeKit data changes.

Workaround: To trigger an update to Siri, edit other data used by Siri such as a contact or the name of a Reminders list.

iAd

Fixed in beta 5

iAd videos may not play in NPR HLS station.

iCloud Drive

Notes

- iCloud Documents & Data created with iOS 8 Beta will be deleted from the servers at some point during this beta period. Information downloaded and not evicted from the device will remain on device and will re-sync after the data wipe occurs.
- Document storage containers created using the `UIDocument` class in iOS 7 are not yet available for use with iCloud Documents through Xcode 6 beta or in the Certificates, Identifiers & Profiles section of Member Center. These containers will be migrated later and associated with your existing App IDs.
- `URLForUbiquityContainerIdentifier:` might return nil when running your application in Xcode. If so, open System Preferences, navigate to iCloud > iCloud Drive, and enable Xcode.
- Migrating to iCloud Drive will disable Documents & Data syncing for your iCloud account on iOS 7 and earlier devices, as well as OS X Mavericks and earlier Macs.

iCloud Keychain

Fixed in beta 5

- Initial sync does not work if the approving device is locked when the approval occurs.
- Using the recovery option can leave you in a state where new items added to the keychain do not sync.

Known Issue

Upon logging into a device with the iCloud 8 beta, other devices in your keychain circle may have their access to the circle revoked.

Workaround: Enable iCloud Keychain Sync on your other devices again.

iTunes Sync

Known Issue

Apps do not sync from a device to iTunes.

Keyboards

Fixed in beta 5

- If you turn off predictive text in one app and then turn it back on in another, it may not actually be reactivated.

- Caps Lock may be unexpectedly enabled in text input fields.

Localization

Fixed in beta 5
The following have English strings that are now properly localized in other languages:

- VoiceOverTouch
- Sharing
- ManagedConfiguration
- AirPortAssistant
- MapKit
- SpringboardUIServices
- AccessibilityBundles
- Music

Maps

Known Issue
When viewed in the Simulator, the "Hybrid" view in Maps and MapKit apps does not show all of the tiles.

Metal and OpenGL

Fixed in beta 5
Shadow samplers are broken when using linear filtering.

Workaround: For OpenGL, set GL_TEXTURE_MIN_FILTER and GL_TEXTURE_MAG_FILTER to GL_NEAREST. For Metal, set the mag_filter and min_filter sampler properties to nearest in the shader source.

Music

Fixed in beta 5
The Music app may stop responding when downloading an album.

Notification Center

Note
The schedule and intended use of `widgetPerformUpdateWithCompletionHandler:` is

intended as a convenient home for all data/model update logic. If implemented, the system will call at opportune times for the widget to update its state, both when Notification Center is visible, as well as in the background. An implementation is required to enable background updates. It's expected that the widget will perform the work to update asynchronously and off the main thread as much as possible. Widgets should call the argument block when the work is complete, passing the appropriate `NCUpdateResult`. Widgets should NOT block returning from `viewWillAppear:` on the results of this operation. Instead, widgets should load cached state in `viewWillAppear:` in order to match the state of the view from the last `viewWillDisappear:`, then transition smoothly to the new data when it arrives.

NSURLSession

Note

Beginning in iOS 8 beta 2, the `NSURLSessionTask` class provides a new "priority" property with three associated constants: `NSURLSessionTaskPriorityDefault`, `NSURLSessionTaskPriorityLow`, and `NSURLSessionTaskPriorityHigh`. `NSURLSessionTask` priorities can be used to specify how multiple requests and responses to the same host should be prioritized. Note that the priority is a hint and not a strict guarantee of `NSURLSessionTask` performance.

For complete usage details of `NSURLSessionTask` priorities, refer to the `NSURLSession.h` header file, which is provided by the Foundation framework.

Phone

Note

To activate Wi-Fi Calling functionality for T-Mobile (U.S. only), follow these steps:

- Go to Settings > Phone > Wi-Fi Calling.
- Toggle the Wi-Fi Calling switch to ON.
- If the carrier does not have the user's registered emergency address, you will be asked to add it before the feature is activated.

Photos

Notes

- iCloud Photo Library requires beta 3 or later.
- Back up your photo libraries before enabling iCloud Photo Library by:
  - Importing to your Mac using iPhoto
  - Importing to your Mac using Image Capture

- Enabling iCloud Photo Library will not add photos/videos that have been synced with iTunes to the cloud.
- iPhoto for iOS will not launch on iOS 8 Beta. Launching Photos.app will migrate your iPhoto edits to the iOS 8 Photo Library. Make sure your iPhoto for iOS data is included in your device backup.

Known Issues

- The ability to automatically optimize device space is not enabled in this beta.
- When using iCloud Family, both iCloud Photos and My Photostream are enabled.
- After restore from iCloud backup, modified photos may show unmodified thumbnails.
- If you reach your iCloud quota, there is no way to add or delete data within the Photos app.

Quicklook

Known Issue

PDF files may not display in some applications.

Safari

Notes

- Safari now blocks ads from automatically redirecting to the App Store without user interaction. If you still see the previous behavior, or find legitimate redirection to the App Store to be broken in some way, please file a bug.
- You can now quickly add a site to Shared Links or save a bookmark by tapping and holding on the bookmarks button.

Settings

Known Issue

Some icons are missing in Settings and only appear after the row is tapped.

Setup

Known Issue

Updating the iCloud settings screen may appear to hang during setup.

Workaround: Some accounts may have an extra long lag. Wait a couple of minutes and they should complete.

Siri

Known Issue

Calling contacts with Siri is supported only on devices with the latest developer seed build. Prior developer seed builds no longer support this feature.

Springboard

Fixed in beta 5

Some projects may launch in portrait when the destination device is in landscape.

Workaround: Rotate the device to portrait and back to landscape to continue in landscape.

Stores

Known Issue

Sometimes, loading certain pages or performing a search on the App Store or iTunes Store can be slow.

UIKit

Notes

- `UILabel` has a default value of YES for `clipsToBounds`. This differs from the normal `UIView` default of NO.
- `leftLayoutGuide` and `rightLayoutGuide` API have been removed. Please use the `layoutMargins` property instead.

Fixed in beta 5

When the width of a multiline label changes due to changes in the `layoutMargins` of some view, the intrinsic content size of the label is not invalidated when it should be. As a result the layout can unexpectedly truncate the label (or text view).

Workaround: The view whose `layoutMargins` are changing should override `layoutMarginsDidChange` and send `invalidateIntrinsicContentSize` to the label.

Known Issue

To use an action sheet-style `UIAlertController` on iPad, the sourceView of the alert controller's popoverPresentationController must be set.

Wi-Fi Calling (T-Mobile US only)

Note

The carrier name in the status bar will show "T-Mobile Wi-Fi" when the device is able to make and receive Wi-Fi Calls.

WebKit

Notes

- Subpixel rendering is now on by default for all web content. Websites or in-app web views with extremely tight design constraints may render differently. Solutions for each issue will vary, but use Web Inspector to adjust position, border thickness, and width or height of elements.

- In iOS 8.0 beta 2 and later, CSS object model getters (offset{Left|Top|Width|Height} and client{Left|Top|Width|Height}) return fractional double values based on subpixel metrics instead of rounded integral values.

- The `minimal-ui` viewport property is no longer supported in iOS 8.

Known Issue

The `window.outerWidth` and `window.outerHeight` DOM properties always return 0. Other DOM properties will need to be used instead. This may affect websites that use leaf.js.