



HERE iOS SDK

Release Notes

Premium Edition Version 3.4

Important Information

Notices

Topics:

This section contains document notices.

- [Legal Notices](#)
- [Document Information](#)

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Document Information

Product

Name:	HERE iOS SDK
Version:	Premium Edition Version 3.4

Document

Name:	HERE iOS SDK Release Notes
ID:	4fcc106-1500941735-f5a1ee71
Status:	FINAL
Date:	2017-Jul-25, 0:17 (GMT)

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Chapter 1

Overview

Topics:

- [Highlights](#)

This document provides a summary of important changes for this version. Apart from newly resolved issues and added or improved functionality, this document also includes information about known issues remaining in this release as well as any existing limitations and workarounds.

Highlights

The following highlights give a short summary of the most important changes, added functionality and improvements:

- We have enabled CocoaPod support in this release.
- We have aligned `NMCoreRouterConnectivity` (for routing) and `NMRequestConnectivity` (for Places search) and made their effects more consistent and predictable. With this change, you have more control over fallback and error scenarios.
- For a list of all new features in this release, see [New Features](#) on page 9.

Chapter 2

Changes

Topics:

- [New Features](#)
- [Functional and Behavioral ...](#)
- [Resolved Issues](#)
- [API Changes](#)
- [Known Issues](#)
- [Limitations and Workaround...](#)

This section documents major changes to the release that may require the updating of affected applications and/or associated map data.

For product changes in previous releases, see the relevant chapters in these documents: [HERE iOS SDK - Premium Edition Release Notes](#)

New Features

The following list contains new features in the current release of the HERE iOS SDK:

HERE SDK 3.4

- The HERE iOS SDK is now also distributed on [CocoaPods](#).
- Added the ability to style the outline of a polyline object.
- Added a new callback for cases when an active guidance session passes a waypoint.
- Improved Swift support.
- Add support for restricting the results returned by Autosuggest. By default, autosuggest returns address, place, category, chain, and query results. With this feature, the application can request that only a subset of these are returned. See the Places API article, [Restricting Suggestion Types](#), for more details.
- Added the ability to be notified of violated routing options when a reroute is triggered by a deviation from the current route.
- Autosuggest is no longer considered a beta feature.
- Added the ability to query for the list of supported map display languages.
- Updated the behavior of DEFAULT connectivity mode for search and routing features to be more consistent.
- Added support to allow setting of perspective rendering of `NMAMapPolyline` towards the horizon, when the map is tilted.
- Updated the included HERE Positioning (IPS) toolkit to a new version.
- For levels and outer areas in 3D Venues, you can now find all nearby spaces in a radius around a given position. The returned list of spaces contains all spaces that fall within or intersect the radius.
- When enabling open venue mode, venues that are in the viewport are now opened automatically, rather than requiring the user to click on the venue to open it.
- Added the ability for venue maneuvers to provide the names of natural guidance POIs.
- Added reverse venue space lookup. You can now get area at a given position, the area returned is either an outer area or a space.
- Added the ability to retrieve axis-aligned bounding boxes for the venue route and outdoor route sections.
- Added CLE2 upload support. You can now push your changes and new geometries directly from the device to CLE2
- Integrated Toll Cost Extensions. You can now get the costs of your (truck) route with details about toll systems split by countries if needed
- Optimized truck routing. We added support for truck restrictions that do not apply to deliveries. We also added support for adjacent no-through zones.
- Extended PDE to support layers that are static, such as layers that do not require any bounding box or link ids to be fetched
- Added support for navigation with Japanese language. You can enable this feature by using the downloadable Japanese text-to-speech voice.

Functional and Behavioral Changes

The following table contains descriptions of added or changed functionality and changes in product behavior.

Table 1: Functional and Behavioral Changes

#	Description
1	We have made general stability and robustness improvements in this release.
2	We have updated the HERE Indoor Radio Mapper and the Indoor Positioning Solution. For more information, check the files in the Indoor-Positioning-Solution folder.
3	<p>Aligned the behavior of the routing connectivity modes (<code>NMACoreRouterConnectivity</code>) and search connectivity modes (<code>NMARequestConnectivity</code>) to be more consistent.</p> <ul style="list-style-type: none"> If you launch a request using the "default" connectivity mode, the request is performed according to the <code>NMAApplicationContext</code> connectivity setting. If the device is offline while <code>NMAApplicationContext</code> is set to online mode, the request fails. If you launch a request using the "online" connectivity mode, an online request is performed, regardless of the <code>NMAApplicationContext</code> connectivity setting. If you launch a request using the "offline" connectivity mode, an offline request is performed, regardless of the <code>NMAApplicationContext</code> connectivity setting. <p>In all cases, if the request fails, no fallback action is automatically performed.</p>

For added and improved functionality in previous releases, see the relevant chapters in these documents: <http://developer.here.com/documentation/versions#ios-hybrid-plus>

Resolved Issues

The following table summarizes major issues resolved in HERE iOS SDK.

Table 2: Resolved Issues

#	Issue	Solution
1	Some Chinese addresses are not rendered in the correct order.	We have fixed a bug where the address is returned in an incorrect format.
2	Incorrect turn information is provided for a turbo roundabout.	We improved the instruction accuracy for turbo roundabouts.
3	Inaccurate search results for Taiwan can appear when users use Chinese addresses.	We improved the search accuracy of Chinese addresses in Taiwan.
4	When voice is disabled, safety spot alerts play in a different tone.	We have fixed this issue in this release.
5	The map scheme <code>Normal.day.grey</code> is missing.	We have added this map scheme in this release.
6	The location address of a search result is incorrectly returned as HTML format text.	We have fixed this issue in this release.
7	A black screen is shown when the Street-level Imagery view's width or height is changed.	We have fixed this issue in this release.
8	The position indicator changes size unexpectedly during a zoom level change.	We have fixed this issue in this release.
9	App runs out of memory when showing long route previews.	We fixed a bug where excessive memory is used when a long route is calculated.

#	Issue	Solution
10	HERE SDK apps are not able to generate iOS notifications after finishing a map download.	We now prevent the OS from suspending immediately after a download is done, this allows the app to generate a notification.
11	3D positioning indicator models do not display properly.	We have fixed an issue where 3D objects are not displayed if the initial position was not set.
12	A crash can occur when rendering is disabled while the app is in the background	We have fixed this issue in this release.
13	An app crash can occur when a car route with many waypoints is calculated.	We have improved and optimized the memory usage for a car route calculation.
14	No safety spot warnings are audible when the speed limit is exceeded during guidance mode.	We have fixed this issue in this release.
15	3D landmarks appear even when the feature is disabled.	We have fixed this issue in this release.
16	NMAMapLoader does not always properly cancel operations.	We have improved robustness around canceling NMAMapLoader operations that are already in progress.
17	A UI freeze can occur when a long route is added.	We have improved SDK performance for when a long route is added.
18	A map that was partially downloaded in a previous app session automatically updates in a new app session.	We have fixed this issue and it no longer occurs.
19	A sub-region of map data can be reported as downloaded when the download was actually previously interrupted.	We have fixed this issue in this release.
20	Some map packages are incorrectly marked as installed by the NMAMapLoader <code>getMapPackageAtGeoCoordinates</code> method.	We have fixed this issue in this release.
21	Walk route segments that overlap with a transit route can be obscured by it.	We have fixed the order of rendering walk and transit segments.
22	NMAMapView <code>objectsAtPoint:</code> and <code>objectAtPoint:</code> were incorrectly documented to return <code>NMAMapObject</code> . These methods may return any object derived from <code>NMAViewObject</code> .	We have updated the documentation and generics information for these methods.

API Changes

Added

- `NMARoadElementType.NMARoadElementTypeServiceAccess`
- `NMALoggedPositionSource` `backgroundUpdatesEnabled`
- `NMAAudioRoute.NMAAudioRouteBluetoothHFPPreferred`
- `NMAApplicationContext` `disableSdkVersionInCrashStack`
- `NMACLE2Task`
- `NMACLE2LayerMetadata`
- `NMACLE2StorageType`
- `NMACLE2OperationResult`

► Changes

- NMACLE2DataManager listLayersTaskInStorage
- NMACLE2DataManager downloadLayerTask
- NMACLE2DataManager uploadLayerTask
- NMACLE2DataManager geometryTask
- NMACLE2DataManager deleteLayersTask
- NMACLE2DataManager purgeLocalStorageTask
- NMACLE2DataManager fetchLocalLayersTask
- NMACLE2Geometry geometryId
- NMACLE2Geometry isLocal
- NMANavigationManager navigationManager:didUpdateRouteWithResult
- NMANavigationManager navigationManager:didFindAlternateRouteWithResult
- NMANavigationManagerDelegate navigationManager:didReachStopover
- NMAVoicePackage tts
- NMAVoicePackage ttsLanguageAvailable
- NMAVoicePackage localizedGender
- NMAVoicePackage localizedQuality
- NMAVoicePackage localizedType
- NMAVoicePackage marcCode
- NMAVoicePackage customAttributes
- NMAMapView maximumRefreshRate
- NMAMapView supportedDisplayLanguages
- NMAMapSchemeHybridGreyDay
- NMAMapSchemeHybridGreyNight
- NMAMapSchemeHybridReducedNight
- NMAMapSchemeManeuverDay
- NMAMapSchemeHybridNightTransit
- NMAMapSchemeCarNavigationDayGrey
- NMAMapSchemeCarNavigationNightGrey
- NMAMapSchemeHybridPedestrianNight
- NMAMapSchemeHybridCarNavigationNightWithTraffic
- NMAMapPolyline isPerspective
- NMAMapPolyline setPerspective
- NMAPatformDataRequest initWithStaticLayer:
- NMARoute routeFromSerializedRoute:withCompletionBlock
- NMARoute serializedRouteWithCompletionBlock
- NMARouteSerializationCompletionBlock
- NMARouteDeserializationCompletionBlock
- NMAAutoSuggestQuery
- NMADiscoveryRequest setSearchAreaWithCenter:radius:
- NMAPlaces createAutoSuggestionRequestWithLocation:partialTerm:resultType:
- NMAPlacesAutoSuggestionResultAddress
- NMAPlacesAutoSuggestionResultPlace
- NMAPlacesAutoSuggestionResultCategory
- NMAPlacesAutoSuggestionResultChain
- NMAPlacesAutoSuggestionResultQuery
- NMATollCostOptions

► Changes

- `NMATollCostRequest`
- `NMATollCostResult`
- `NMATollCostVehicleProfile`
- `NMAVenue3dArea` `polygon`
- `NMAVenue3dLevel` `areaAtPosition`
- `NMAVenue3dLevel` `nearbySpacesAroundPosition`
- `NMAVenue3dMapLayer` `hideIconOnSelectedSpace`
- `NMAVenue3dMapLayer` `setHideIconOnSelectedSpace`
- `NMAVenue3dMapLayer` `openMode`
- `NMAVenue3dMapLayer` `venueNavigationManager`
- `NMAVenue3dOuterArea` `nearbySpacesAroundPosition`
- `NMAVenue3dOuterArea` `spaceAtPosition`
- `NMAVenue3dRouteManeuver` `naturalGuidancePOI`
- `NMAVenue3dRouteManeuver` `naturalGuidanceRadius`
- `NMAVenue3dRouteManeuver` `boundingBox`
- `NMAVenue3dAccount`
- `NMAVenue3dService` `authenticateWithCallback:listener`
- `NMAVenue3dService` `activeVenueAccount`
- `NMAVenue3dService` `venueAccounts`
- `NMAVenue3dService` `setActiveVenueAccount: account`
- `NMAVenue3dService` `online`
- `NMAVenue3dAuthenticationListener`
- `NMAVenue3dVenueRouteSection` `boundingBox`
- `NMAVenue3dVenueRouteSection` `boundingBox:level`
- `NMAVenue3dOutdoorRouteSection` `boundingBox`
- `NMAVenue3dNavigationManager`
- `NMAVenue3dNavigationListener`
- `NMAVenue3dSimulatedPositionSource`
- `NMACustomConfigurations` `setCustomConfiguration`

Deprecated

- `NMARoadElementType.NMARoadElementTypeServiceAccessParking`
- `NMARoadElementType.NMARoadElementTypeServiceAccessOther`
- `NMARoadElementType.NMARoadElementTypeServiceRoad`
- `NMALoggedPositionUpdateStyle`
- `NMALoggedPositionSource` `verticalAccuracy`
- `NMALoggedPositionSource` `horizontalAccuracy`
- `NMALoggedPositionSource` `updateStyle`
- `NMALoggedPositionSource` `updateInterval`
- `NMALoggedPositionSource` `usesOriginalTimestamps`
- `NMALoggedPositionSource` `reset`
- `NMALoggedPositionSource` `runsInBackground`
- `NMACLE2DataManager` `NMACLE2LayerDownloadCompletionBlock`
- `NMACLE2DataManager` `downloadLayer`
- `NMACLE2DataManager` `cancelAllLayerDownloads`
- `NMACLE2DataManager` `cancelLayerDownload`

► Changes

- `NMACLE2DataManager deleteAll`
- `NMACLE2DataManager deleteLayer`
- `NMANavigationManager navigationManager:didUpdateRoute:`
- `NMANavigationManager navigationManager:didFindAlternateRoute:`
- `NMARoute routeFromSerializedRoute:error`
- `NMARoute serializedRouteWithError`
- `NMAVenue3dRouteOptions isRouteVisibleFor`

Changed

- `NMACLE2GeometryPolyline geoPolyline` - read-only attribute is now read-write
- `NMACLE2GeometryPolygon outerRing` - read-only attribute is now read-write
- `NMACLE2GeometryPolygon innerRing` - read-only attribute is now read-write
- `NMACLE2GeometryPoint coordinates` - read-only attribute is now read-write
- `NMACLE2GeometryMultiPolyline multiPolylineArray` - read-only attribute is now read-write
- `NMACLE2GeometryMultiPolygon multiPolygonArray` - read-only attribute is now read-write
- `NMACLE2GeometryMultiPoint coordinatesArray` - read-only attribute is now read-write
- `NMACLE2Geometry attributes` - read-only attribute is now read-write

Removed

📄 **Note:** APIs that have been deprecated for more than one year were removed in this release.

For API changes in previous releases, see the relevant chapters in these documents: [HERE iOS SDK - Premium Edition Release Notes](#)

Known Issues

- `NMACompositeView` - The camera view may become distorted when the device orientation switches repeatedly, or if the orientation is changed from its previous state before the app comes to the foreground.
- Online and offline Place search results may differ when both an explicit search center and an implicit viewport are sent.

Limitations and Workarounds

There are no limitations and workarounds in this release.

Chapter 3

Package Information

Topics:

- [Release Content](#)
- [Package Description](#)
- [Getting Started](#)

This chapter contains information on the package delivery, the package contents, the dependencies and installation guide.

Release Content

Native APIs	Enabling native applications to leverage HERE functionality
Documentation	API Reference Documentation and Developer Guide
Sample Applications	Sample applications in Objective C

Package Description

/sample-apps	Sample applications to be used with the Quick Start section in the Developer's Guide
/user-guide/HERE iOS SDK Premium Edition v3.4 Developer's Guide.pdf	HERE iOS SDK Developer's Guide
HERE iOS SDK Premium Edition v3.4 Release Notes.pdf	This document
README.md	Instructions for using HERE SDK through CocoaPods.
HERE-sdk.zip/HERE-SDK-Notices.html	Copyright and licensing text for the HERE iOS SDK. A copy of this text is also available in the Release Notes.
HERE-sdk.zip/version.txt	Version information about the HERE iOS SDK.
framework/NMAKit.framework	HERE iOS SDK
framework/strip_sim.sh	Script for removing simulator architectures from the NMAKit library.
Indoor-Positioning-Solution/here_indoor_radio_mapper-4.4.apk	HERE Indoor Radio Mapper Android app
Indoor-Positioning-Solution/docs/Indoor Positioning v3.0 Installation Guide.pdf	Instructions on how to set up Indoor Positioning
Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.4 Release Notes.pdf	Release Notes about the Indoor Radio Mapper app
Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.4 User Guide.pdf	Instructions on how to use the Indoor Radio Mapper Android app to create indoor maps that can be used with HERE Positioning

Getting Started

Refer to the documentation under the /user-guide folder for details on how to quickly start evaluating the HERE iOS SDK.

- **Note:** Developers using the HERE iOS SDK in their application projects must embed or link to the legal text provided in [Copyright Information](#) on page 18 from a user-accessible area of their application.

Appendix

Other Information

Topics:

- [System Requirements](#)
- [Copyright Information](#)

This appendix contains topics other than immediately regarding changes and issues in the release such as release overview, technical specifications, dependencies, 3rd party copyright notices, release quality and related documents.

System Requirements

- HERE iOS SDK is designed and tested for use with iOS phones and tablets. Supported devices are:
 - iPhone 5 or newer
 - iPad 3 or newer
 - iPad Mini 2 or newer
- HERE SDK supports iOS 9.0 or above. iOS 10 is recommended for optimal operation.
- Apps should be developed using XCode 8.3 or above, running on macOS 10.12 or above.
- For the storage of application binaries, a minimum of 30MB should be made available per application.
- For the storage of map data, a minimum of ~100MB should be made available.
- Data connectivity (WiFi or Cellular) is required to download map data and ensure map data is updated when new versions are made available

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=== Lua 5.1.3 ===

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=== malloc_count ===

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=== rapidjson 1.0 ===
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Portions of code from:

MODP_ASCII - Ascii transformations (upper/lower, etc)

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=== Snappy 1.1.2 ===

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=== Squish 1.11 ==

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=== uriparse 0.7.5 ===

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=== UTF8-cpp 2.3.4 ==

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=== Zlib 1.2.8 ==

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.8, April 28th, 2013

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Jean-loup Gailly	Mark Adler
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The data format used by the zlib library is described by RFCs (Request for Comments) 1950 to 1952 in the files <http://tools.ietf.org/html/rfc1950> (zlib format), [rfc1951](http://tools.ietf.org/html/rfc1951) (deflate format) and [rfc1952](http://tools.ietf.org/html/rfc1952) (gzip format).

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This can be in the form of a textual message at program startup or  
in documentation (online or textual) provided with the package.
```

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=== GSON 2.2.4 ===

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