

# **HERE iOS SDK**

**Release Notes**

**Premium Edition Version 3.3**

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# Important Information

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## Notices

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**Topics:**

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

This section contains document notices.

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Version:	Premium Edition Version 3.3

### Document

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# Chapter 1

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## Overview

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### Topics:

- [Highlights](#)

The HERE iOS SDK offers APIs to enable developers to access HERE location-based assets and bring a rich and immersive location experience to their applications with beautiful and accurate maps, a global database of Places and a world-class routing capability. The powerful client-side HERE APIs for iOS include a sophisticated engine for rendering map data and route calculation. In addition to downloading map data dynamically as needed, it also supports offline maps through use of previously cached map data or previously downloaded map packages.

The scope of this document is to provide the release notes of the HERE iOS SDK.

## Highlights

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

- For a list of new features in this release, see [New Features](#) on page 9.

# Chapter 2

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## Changes

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### 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

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

### HERE SDK 3.3

- Added offline capabilities to Custom Location Extensions 2.
- Added Bike Routing as a beta feature.
- Added Route Serialization as a beta feature.
- Added the ability to force the HERE SDK to perform Routing and Search requests online or offline.
- Improved fragment, map view, and waypoint support in 3D Venue Maps.
- Added the ability to choose HERE Positioning as a data source.
- Use sensors to improve accuracy of HERE indoor positioning.
- Added support for CDMA networks in HERE Positioning.
- Added new Truck Routing options and improved the truck routing algorithm.
- Added the ability to set the Navigation Manager maneuver text output to a format compatible with Nuance TTS.

## Functional and Behavioral Changes

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

**Table 1: Functional and Behavioral Changes**

#	Description
1	Safety Spot support in route navigation is now disabled by default.
2	We have increased the maximum number of supported waypoints in a routing request from 32 to 128. However, using a large number of waypoints may not always result in a valid route. In addition, route calculations using many waypoints can lead to slower response times.
3	Starting with iOS 10, you must declare access to private data before submitting your app to the App Store. For more information on HERE SDK data access, see the App Store Submission and Data Access section in the Developer's Guide.

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

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

**Table 2: Resolved Issues**

#	Issue	Solution
1	Incorrect maneuver angles for roundabouts.	This issue is fixed and it no longer occurs.
2	Direction-of-travel arrows are unexpectedly visible or badly rendered on some street routes.	Fixed the rendering issue related to street direction arrows when a route is visible.
3	Simplified Chinese can appear for countries where the device language is set to Traditional Chinese (Hong Kong).	This issue is fixed.
4	Recorded voice guidance is not able to announce "1000 meters" during navigation.	An issue was discovered that related to rounding meters to kilometers. This has been fixed in this release.
5	An area of map that has been downloaded before is changed to "install" after upgrading.	An issue was discovered that related to handling map upgrades with downloaded map packages. This has been fixed in this release. Map packages now properly show its installation state in this scenario.
6	A memory leak issue was discovered in <code>NMARoute.Maneuvers</code> .	This issue is fixed in this release.
7	Point-of-Interest icons of educational and governments establishments are mixed up under certain circumstances.	This issue is fixed in this release.

## API Changes

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### Added

- `NMAAudioManager volume`
- `NMAAudioManager captureHardwareVolumeKeys`
- `NMAAudioManager audioRouteLatencyCompensation`
- `NMAPositionDataSource backgroundUpdatesEnabled`

## ► Changes

- NMAHEREPositionSource
- NMAGeoCoordinates NMAGeoCoordinatesUnknownAltitudeValue
- NMAGeoCoordinates NMAGeoCoordinatesInvalidValue
- NMACLE2DataManager
- NMACLE2Request connectivityMode
- NMACLE2Result connectivityModeUsed
- NMACLE2Request cachingEnabled
- NMACLE2ErrorInProgress
- NMACLE2ErrorCancelled
- NMACLE2ErrorDataManagerFailed
- NMACLE2ErrorServerFailed
- NMACLE2ErrorPartialSuccess
- NMACLE2ErrorUnknown
- NMACLE2ConnectivityModeOnline
- NMACLE2ConnectivityModeOffline
- NMACLE2ConnectivityModeAutomatic
- NMANavigationManager backgroundNavigationStartEnabled
- NMANavigationManager enabledAudioEvents
- NMARoutingMode NMATransportMode::NMATransportModeBike
- NMACoreRouter connectivity
- NMARoutingError NMARoutingErrorNetworkCommunication
- NMARoute NMARouteSerializationError
- NMARoute routeFromSerializedRoute:error:
- NMARoute serializedRouteWithError:
- NMARoute geometry
- NMARequestConnectivity
- NMARequest connectivity
- NMAVenue3dCombinedRoute getStart
- NMAVenue3dCombinedRoute getEnd
- NMAVenue3dCombinedRoute getWaypoints
- NMAVenue3dCombinedRoute conformsConnectorOptions
- NMAVenue3dCombinedRoute conformsModeOptions
- NMAVenue3dContent email
- NMAVenue3dLevelLocation levelLocationOnLevel:
- NMAVenue3dLevelLocation withGeoCoordinate:
- NMAVenue3dLevelLocation inVenue:
- NMAVenue3dMapLayer positionIndicator
- NMAVenue3dRoutingController calculateRouteWithPoints:withParams:

## ► Changes

- `NMAVenue3dVenueInfo isAlternativeSource`
- `NMAVenue3dServiceInitializationStatusOnlineFailed`
- `NMAVenue3dServiceInitializationStatusLocked`
- `NMAVenue3dServiceListener`  
`venueService:didGetVenue:withVenueInfo:withStatus:`
- `NMAVenue3dServiceStopListener`
- `NMAVenue3dServiceClearCacheListener`
- `NMAVenue3dService initAdditionalVenueService`
- `NMAVenue3dService privateContent`
- `NMAVenue3dService testEnv`
- `NMAVenue3dService combinedContent`
- `NMAVenue3dService stopWithCallback:`
- `NMAVenue3dService stopAndClearCacheWithCallback:`

**Deprecated**

- `NMACustomGeometry` - **Functionality replaced by `NMACLE2Geometry`.**
- `NMACustomGeometryLineString` - **Functionality replaced by `NMACLE2GeometryPolyline`.**
- `NMACustomGeometryMultiLineString` - **Functionality replaced by `NMACLE2GeometryMultiPolyline`.**
- `NMACustomGeometryPoint` - **Functionality replaced by `NMACLE2GeometryPoint`.**
- `NMACustomGeometryMultiPoint` - **Functionality replaced by `NMACLE2GeometryMultiPoint`.**
- `NMACustomGeometryPolygon` - **Functionality replaced by `NMACLE2GeometryPolygon`.**
- `NMACustomGeometryMultiPolygon` - **Functionality replaced by `NMACLE2GeometryMultiPolygon`.**
- `NMACustomLocation` - **Functionality replaced by `NMACLE2Geometry`'s `attributes` property.**
- `NMACustomLocationManager` - **Functionality replaced by `NMACLE2Request` classes.**
- `NMACustomLocationParameters` - **Functionality replaced by `NMACLE2AttributeRequest` and `setQuery` `getQuery` of all other requests.**
- `NMACustomLocationResponse` - **Functionality replaced by `NMACLE2Result`.**
- `NMATransportModeTrack`
- `NMARoute mapPolyline`
- `NMARoutingErrorRequestTimeout` - **Replaced by `NMARoutingErrorNetworkCommunication`**
- `NMAVenue3dServiceListener venueService:didGetVenue:`

**Changed**

- The Urban Mobility module has been refactored. For more details about this beta feature, see the API Reference.

- `NMAGeoCoordinates geoCoordinatesWithLatitude:longitude:`, `NMAGeoCoordinates initWithLatitude:longitude:` - Default value for altitude is changed from 0 to `NMAGeoCoordinatesUnknownAltitudeValue`.
- `NMAGeoCoordinates headingTo:` - Returns `NMAGeoCoordinatesInvalidValue` instead of -1 to represent an error, such as if specified `NMAGeoCoordinates` is nil.
- `NMARoutePlan` - Waypoint limit has increased to 128

## 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

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- A nil image and an error is returned when you use HERE Places images while [App Transport Security](#) is enabled. To get around this issue, add the following exception to your `Info.plist`:

```
<key>nokia.com</key>
<dict>
  <key>NSExceptionRequiresForwardSecrecy</key>
  <false/>
  <key>NSIncludesSubdomains</key>
  <true/>
</dict>
```

- `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

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There are no limitations and workarounds in this release.

# Chapter 3

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## Package Information

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**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

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

## Package Description

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<code>/docs</code>	API Reference documentation
<code>/sample-apps</code>	Sample applications to be used with the Quick Start section in the Developer's Guide
<code>/user-guide/HERE iOS SDK Premium Edition v3.3 Developer's Guide.pdf</code>	HERE iOS SDK Developer's Guide
<code>HERE iOS SDK Premium Edition v3.3 Release Notes.pdf</code>	This document
<code>framework/NMAKit.framework</code>	HERE iOS SDK
<code>Indoor-Positioning-Solution/ here_indoor_radio_mapper-4.2.apk</code>	HERE Indoor Radio Mapper Android app
<code>Indoor-Positioning-Solution/docs/Indoor Positioning v2.0 Installation Guide.pdf</code>	Instructions on how to set up Indoor Positioning
<code>Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.2 Release Notes.pdf</code>	Release Notes about the Indoor Radio Mapper app
<code>Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.2 User Guide.pdf</code>	Instructions on how to use the Indoor Radio Mapper Android app to create indoor maps that can be used with HERE Positioning

## Getting Started

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

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# Appendix

# A

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## Appendix

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**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

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- iOS 9.0 or above. iOS 10 is recommended for optimal operation.
  - XCode 8 or above, running on Mac OS X 10.10 or above.
  - iPhone 4S or newer devices
- **Note:** iPhone 5 / iOS 8.3 or newer devices are recommended for the LiveSight feature.

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=== Log4cplus 1.1.3-rc4 ===

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=== malloc_count ===
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MiniZip -  
Copyright (c) 1998-2010 Gilles Vollant - version 1.1 64 bits from Mathias Svensson  
Copyright (C) 2003 Justin Fletcher  
Credits
```

```
Gilles Vollant - Original MiniZip author
```

```
Even Rouault      - ZIP64 unzip Support
Daniel Borca      - BZip Compression method support in unzip
Mathias Svensson  - ZIP64 zip support
Mathias Svensson  - BZip Compression method support in zip
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=== rapidjson 1.0 ===
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=== rg_etc 1.04 ===
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=== Snappy 1.1.2 ===
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=== Squish 1.11 ==
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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  
 jloup@gzip.org                    madler@alumni.caltech.edu

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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