



# HERE iOS SDK

## Release Notes

Premium Edition Version 3.3.1

# Important Information

## Notices

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**Topics:**

This section contains document notices.

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

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# Chapter 1

## 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:

As this release is for maintenance purposes only, we did not add any new features.

## Chapter 2

# 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 3.3.1

- No new features were added in this release.
- 📄 **Note:** In v3.3, we added support for sensor measurements when using HERE indoor positioning. For example, sensors are used for stabilizing indoor position updates when the device is stationary.

## 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	We now provide instructions on how to add an ATS Exception for HERE Positioning. For more information, see the "App Store Submission" section in the Developer's Guide.
2	All developers now have the capability to query for map updates and trigger the update of all map data. Developers are now required to keep map data up-to-date to ensure SDK features perform optimally, please refer to the section HERE Map Data in the User Guide.
3	We improved the rendering of map details in China.
4	3D Venues: We have added support for development (CIT) environments in the venue service.
5	3D Venues: We have added support of custom properties in venue content objects.
6	We have updated the HERE Indoor Radio Mapper and the Indoor Positioning Solution. For more information, check the files in the <code>Indoor-Positioning-Solution</code> folder.
7	HERE Positioning: We have made a number of changes to improve performance in indoor positioning detection, location fix times, and motion updates.
8	We have changed the position indicator so that it no longer renders underneath truck restrictions.

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	In some cases, traffic avoidance rerouting can cause the map to freeze.	We have investigated and fixed this issue.
2	Some header files related to new features were missing from the package.	<code>NMAAutoSuggestionRequest</code> , <code>NMAUrbanMobilityExploredCoverage</code> , and <code>NMAUrbanMobilityMissingCoverage</code> are added in this release.
3	No traffic is shown when the Transit scheme is enabled.	We have fixed this issue in this release. Traffic is shown in the transit scheme if it is enabled.
4	Long route previews can sometimes cause the app to freeze.	We have fixed the underlying memory issue related to using a long route.
5	Under certain scenarios involving multiple <code>CoreRouter</code> instances, route calculations can cause the SDK to crash.	We have fixed this issue in this release.
6	Geo bounding boxes have strange boundaries when the bounding box is near the longitude of 180 degrees.	We have fixed this issue in this release.
7	Stopovers were not consistently returned during navigation.	We have improved the handling of maneuver callbacks for cases when reaching a stopover which is close to another maneuver.
8	During a re-routing operation in an active navigation session, the navigation manager returns an incorrect ETA of "Dec 31 17:59:59 CST 1969".	We have fixed this issue in this release by returning an <code>INVALID_ETA_DATE</code> instead, so that applications can choose to ignore it.
9	Satellite images flicker during panning.	We have improved the rendering of satellite imagery while the user is panning the satellite map in this release.
10	App crashes may occur in requests for traffic events in Urban Mobility routing.	We have fixed this issue in this release. These app crashes will no longer appear.
11	A freeze may occur when the SDK-enabled application stops navigation while navigation has started rerouting.	We have fixed this issue in this release.
12	A crash due to a null pointer exception may occur when the HERE SDK attempts to retrieve network information.	We have fixed this issue in this release.
13	Canceling voice downloads would sometimes prevent further voice catalog operations.	We have fixed this issue in this release.
14	A crash can occur in guidance navigation if the app attempts to get the current maneuver frequently in a short period of time.	We have fixed this issue by improving the performance of the navigation manager.
15	A crash can occur when map engine initialization fails.	We have fixed this issue in this release.
16	The start flag in venue routing is always located on the ground floor.	We have fixed this issue in this release.
17	There are some performance issues with localized names in the Venues API.	We have fixed this issue in this release. We have improved the logic to select the right language for a place if multiple languages are available.

#	Issue	Solution
18	Venues: Initialization in combined mode fails if there is no private venue data.	We have fixed this issue in this release. Public data is used if no private venue data is available.
19	LiveSight issue: the camera view is inverted	We have fixed a bug where LiveSight camera view is sometimes inverted if it was launched in landscape mode, on certain iOS devices.
20	Unable to properly set locale to Norwegian	An error with an incorrect Norwegian language code was discovered. This is fixed in this release.
21	A crash can occur when a HERE SDK app switches to the background while both street-level imagery and turn-by-turn navigation are active.	This is fixed in this release, and the crash no longer appears.
22	In a limited number of scenarios, updating a downloaded map package after an SDK version upgrade can cause the map package entry to disappear.	We have fixed this issue in this release.
23	Under certain circumstance, navigation manager and map matcher may be blocked for a period of time during rerouting.	This behavior is addressed in this release. We have fixed the issues related to rerouting strategies and how map matching interacts with the navigation manager's lifecycle.

## API Changes

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### Added

- `NMAMapPackageInstallationPartiallyInstalled` enum
- `NMAPlatformDataRequest initWithLayers:linkIds:`
- `NMAUrbanMobilityPlace`
- `NMARoute permanentLinkIds`
- `NMARoadElement permanentLinkId`
- `NMAVenue3dContent customAttributes`
- `NMAVenue3dContent devEnv`
- `NMARoadElementTypeServiceAccess`

### Changed

- We have made many updates including API changes to the Urban Mobility module. For more details about this beta feature, see the API Reference.
- `NMAMapLoader init` - This is marked as `NS_UNAVAILABLE`. Use the shared instance instead.
- `NMAMapLoader sharedMapLoader` - The shared map loader is now accessible to all users, so that it can be used to update map data (including streamed data) to the latest version.
- `NMAMapLoader rootPackage` - Returns `nil` if the user does not have access to map loader features.
- `NMAMapLoader getMapPackages` - Provides warning message if the user does not have access to map loader features.

## Changes

- `NMAMapLoader installMapPackages` - Provides warning message if the user does not have access to map loader features.
- `NMAMapLoader uninstallMapPackages` - Provides warning message if the user does not have access to map loader features.
- `NMAMapLoader getMapPackageAtGeoCoordinates` - Provides warning message if the user does not have access to map loader features.
- `NMAMapLoader selectDataGroup` - Provides warning message if the user does not have access to map loader features.
- `NMAMapLoader deselectDataGroup` - Provides warning message if the user does not have access to map loader features.
- `NMAMapLoader isDataGroupSelected` - Provides warning message if the user does not have access to map loader features.
- `NMAMapLoader checkForMapDataUpdate` - The callback now supports updating partial map packages.
- `NMAMapLoader performMapDataUpdate` - Fully installs any partially installed packages.
- `NMAMapPositionIndicator` - Default layer type for the position indicator has changed to `NMAMapLayerTypeForeground`. To revert to the previous behavior, call `setDisplayObject:toLayer:` with `NMAMapLayerTypeRoad`.

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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- `NMAMapCompositeView` - 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

## 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

<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

<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 v3.3.1 Developer's Guide.pdf</code>	HERE iOS SDK Developer's Guide
<code>HERE iOS SDK Premium Edition v3.3.1 Release Notes.pdf</code>	This document
<code>framework/NMAKit.framework</code>	HERE iOS SDK
<code>framework/strip_sim.sh</code>	Script for removing simulator architectures from the NMAKit library.
<code>Indoor-Positioning-Solution/here_indoor_radio_mapper-4.3.apk</code>	HERE Indoor Radio Mapper Android app
<code>Indoor-Positioning-Solution/docs/Indoor Positioning v2.1 Installation Guide.pdf</code>	Instructions on how to set up Indoor Positioning
<code>Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.3 Release Notes.pdf</code>	Release Notes about the Indoor Radio Mapper app
<code>Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.3 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

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 16 from a user-accessible area of their application.

# Appendix

## 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.
- Supported devices:
  - iPhone 5 or newer
  - iPad 3 or newer
  - iPad Mini 2 or newer

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Mesa 3-D graphics library

Version: 7.0

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=== ICU 1.8.1+ ===

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=== Lua 5.1.3 ===

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=== LZ4 r126 ===

LZ4 - Fast LZ compression algorithm

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=== malloc\_count ===

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=== OpenSSL 1.0.1.s ===

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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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=== 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
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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=== GSON 2.2.4 ===

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