

HERE iOS SDK

Release Notes

Premium Edition Version 3.1.1



Contents

- Legal Notices..... 3**
- Document Information..... 4**
- Overview..... 5**
- Target Audience..... 6**
- Release Content..... 7**
- Package Description..... 8**
- System Requirements..... 9**
- Features Overview..... 10**
- Getting Started..... 12**
- New Features..... 13**
- API Changes, Fixed Issues, and Improvements..... 14**
- Known Issues..... 17**
- Copyright Information..... 18**

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Overview

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

Target Audience

This document is targeted at the developers who are already familiar with iOS app development. Readers should have some experience using Xcode and Objective-C.

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

<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 v3.1.1 Developer's Guide.pdf</code>	HERE iOS SDK Developer's Guide
<code>HERE iOS SDK Premium Edition v3.1.1 Release Notes.pdf</code>	This document
<code>Framework/NMAKit.framework</code>	HERE iOS SDK

System Requirements

- iOS 8.0 or above. iOS 9 is recommended for optimal operation.
- XCode 7.0 or above, running on Mac OS X 10.10 or above.
 - **Note** Bitcode support was incorrectly listed as supported in HERE iOS SDK v3.1. The HERE iOS SDK does not currently support Bitcode. Developers building apps with the HERE SDK should set `ENABLE_BITCODE` to `NO` in the Xcode settings.
- iPhone 4S or newer devices
 - **Note** iPhone 5 / iOS 8.3 or newer devices are recommended for the LiveSight feature.

Features Overview

- 📖 **Note** You may not have access to all features listed below. The enabled features are determined based on your business plan.

Mapping:

- Dynamically download vector maps for over 190 countries in over 60 languages
- Preload maps for offline usage
- Map styles: Normal, Night, Satellite with Streets, Terrain, and more
- Touch gestures such as tap, pan, and pinch
- Overlay objects on the map such as polylines, polygons, icons, routes
- Map marker clusters
- 3D landmarks
- Overlay custom raster tiles on the map (useful for features such as heat maps)
- Show real-time traffic flow and incidents
- Traffic and transit object interaction
- 3D venue maps
- 3D Extruded buildings
- Transit object interaction
- Street-level imagery
- 3D map objects

Search:

- Search through a broad set of geographical content across the globe (including streets, address points, and categorized places)
- Search Places for somewhere specific or explore by categories
- Access rich details for a Point of Interest from third-party content sources (including images, ratings, reviews, and editorials)
- Perform geocoding and reverse geocoding lookups
- Offline Places search, Geocoding, Reverse Geocoding

Directions:

- Online Car , Public Transit, and Pedestrian Route Directions
- Routing options (Highways, Tolls, Fastest etc.)
- Specify preferred route type (fastest or shortest) and route options (such as avoiding toll roads, motorways, and parks)

- Alternate routes
- Offline route calculation
- Driving directions with traffic taken into account
- Public Transit directions using online timetables
- Indoor routing

Turn-by-turn Navigation:

- Online turn-by-turn navigation for pedestrian, car, and truck routes
- Offline turn-by-turn navigation for pedestrian and car routes
- Download and set additional navigation voices
- Natural-sounding guidance instructions, such as "turn left at the gas station" and "at the next light, turn right"
- Navigation voices in a variety of languages. For a list of the available languages, see the Developer's Guide.

LiveSight (Augmented Reality):

- Project objects in a camera view
- Track the position of the device and objects in space
- Gesture support allows the user to interact with content
- Configurable LiveSight engine allows the user experience to be customized

Other Features:

- Custom location and custom location geometry search
- Support for fleet dispatching and connectivity
- Urban Mobility: transit station search and transit station departure board
- Map information for fleet vehicles and trucks
- Congestion toll zones and the typical traffic patterns for a given time of the week

Getting Started

Please 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.

New Features

HERE SDK 3.1.1

- No new features were added in this release.

Version 3.1

- We added support for polylines in LiveSight.
- We added new penalty modes to support avoiding certain roads and areas in a route calculation.
- We added custom location geometries.
- We added the transit station search and departure board Urban Mobility features.
- We added turn-by-turn navigation for truck routes.
- We added the fleet connectivity feature.
- We added indoor venue routing.

Version 3.0.2

- We added support for "via" waypoints for car routing

Version 3.0.1

- We reduced the map coverage of Mainland China.
- We expanded the support of automatic geopolitical maps.

Version 3.0

- We enabled access based on license keys.
- We added 3D Venue Maps
- We added the ability to deactivate voice guidance and more audio controls
- We enabled Mercator projection
- We added better support for voice navigation with Bluetooth devices
- We added support for Dynamic Navigation based on traffic
- We added the Traffic Warner
- We added support for 3D objects to LiveSight
- We have moved LiveSight out of beta
- We updated the SDK to only preload the English voice package.
- We added marker clustering
- We added native rendering for truck attributes, fleet maps, environmental zones

API Changes, Fixed Issues, and Improvements

Version 3.1.1

- Fixed an issue where the user may see a spinning position indicator.
- Fixed an issue where the map zooms out unexpectedly during navigation.
- Fixed an issue where the volume cannot be changed after a map navigation session comes back from the background.
- Fixed an issue where maneuver arrows disappear during pedestrian navigation.
- Fixed an issue where route calculations are unexpectedly performed online.
- Fixed an issue where an `NMAMapOverlay` changes position due to map animations.
- Fixed an issue where the fleet connectivity ETA updates return the remaining duration, rather than the estimated time of arrival.
- Fixed an issue where ETA threshold values from the fleet connectivity server are not properly handled.
- Improved the way fleet connectivity tasks are polled.
- Improved `NMARouteManager` performance.
- Updated the System Requirements, since Bitcode support was incorrectly listed in HERE iOS SDK 3.1.

Version 3.1

- The copyright legal text has been updated in this release. Users of the HERE SDK must update their application to use this latest notice.
- `Security.framework` is now required.
- Changed route calculations to use `startDirection` instead of `direction`. You must specify the current direction explicitly if you would like to use it in a route calculation .
- Fixed an issue where the `name` property on an `NMAMediaImage` is always nil.
- Fixed an issue where the map cannot be tilted under certain circumstances.
- Fixed an issue where the Avoid Congestion traffic mode is not taken into account in a route calculation.
- Fixed an issue where a crash can occur while handling position updates.
- Fixed the alternative name results in `NMAPlace`.
- Fixed an issue where the `didCompleteWithData:error:` event does not occur after sending an `NMAGeocodeRequest` in offline mode.
- Fixed a crashing issue while navigation is in progress.

Common Module

- Deprecated the `NMATrafficEventType` enum and the `eventType` property in `NMATrafficEvent`.
- Added the `shortText` property to `NMATrafficEvent`.
- Deprecated the `trafficDataDidUpdate` method in `NMATrafficManagerObserver`.
- Added the `NMARoadElementAttribute` enum.

Fleet Connectivity Module

- Added this module to support the Fleet Connectivity feature.

Navigation Module

- Deprecated the `timeToArrivalWithTraffic` property and added the `timeToArrivalWithTraffic:` method in `NMANavigationManager`.

Mapping Module

- Added `NMAMapSchemeTruckNavigationDay`, `NMAMapSchemeTruckNavigationNight`, `NMAMapSchemeHybridTruckNavigationDay`, `NMAMapSchemeHybridTruckNavigationNight`, `NMAMapSchemeHybridCarNavigationDay`, and `NMAMapSchemeHybridCarNavigationNight` to `NMAMapScheme`.
- Added the `trafficEnabled` property to `NMAMapRoute`.

Routing Module

- Added the `trailersCount`, `truckType` and deprecated the `hasTrailer`, `permittedGrossWeight`, `trailerWeight` properties from `NMARouteManager`.
- Added the `NMATruckType` class.
- Deprecated `ttaWithTraffic` and `ttaWithTrafficForSubleg::`; added `ttaWithTraffic:` and `ttaWithTraffic:forSubleg:` to `NMARoute`.

Search Module

- Added `createGeocodeRequestWithQuery:searchArea:` and `createGeocodeRequestWithQuery:searchRadius:searchCenter:` in `NMAGeocoder`.
- Deprecated `createGeocodeRequestWithQuery:searchArea:locationContext:` and `createGeocodeRequestWithQuery:searchRadius:locationContext:` in `NMAGeocoder`.
- Deprecated the `textFormat` properties in `NMAREverseGeocodeRequest` and `NMAGeocodeRequest`.
- Added the `accessPoints` property to `NMAPlaceLocation`.
- Added the `NMANavigationPosition` class.

Venues 2D Module - removed as of this release

Venues 3D Module

- Added the `setTestEnv:` and `setPrivateContent:` methods to `NMAVenue3dService`.
- Added the `venueRoutingController` property to `NMAVenue3dMapLayer`.

- Added the `NMAVenue3dBaseLocation`, `NMAVenue3dCombinedRoute`, `NMAVenue3dLinkRouteSection`, `NMAVenue3dOutdoorLocation`, `NMAVenue3dOutdoorRouteSection`, `NMAVenue3dRouteManeuver`, `NMAVenue3dRouteOptions`, `NMAVenue3dRouteSection`, `NMAVenue3dRoutingController`, `NMAVenue3dSpaceLocation` and `NMAVenue3dVenueRouteSection` classes to support the Venue Routing feature.

Urban Mobility Module

- Added this module to support the Urban Mobility feature.

Custom Location Module

- Added the `NMACustomGeometryPoint`, `NMACustomGeometryPolygon`, `NMACustomGeometryLineString`, `NMACustomGeometryMultiLineString`, `NMACustomGeometryMultiPoint`, and `NMACustomGeometryMultiPolygon` classes to support the Custom Location Geometry feature.
- Added the `requestGeometriesInGeoBoundingBox:withLayer:parameters:completion:`, `requestGeometriesIntersectingCoordinates:withLayer:parameters:completion:`, and `requestGeometryWithId:withLayer:parameters:completion:` methods to `NMACustomLocationManager`

Known Issues

- 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.

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```
*****
* libjpeg 9
*****
```

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interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002

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* rapidjson 1.0
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Portions of code from:

MODP_ASCII - Ascii transformations (upper/lower, etc)

<http://code.google.com/p/stringencoders/>

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```
*****
* Protocol Buffers 2.6.0
*****
```

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```

```
*****
* libpng 1.6.16
*****
```

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```
*****
* libjson 7.6.1
*****
```

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```
*****
* ios-analytics 1.0.0
*****
```

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