

# **HERE iOS SDK**

**Release Notes**

**Premium Edition Version 3.2**



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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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## Document Information

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### Product

Name:	HERE iOS SDK
Version:	Premium Edition Version 3.2

### Document

Name:	HERE iOS SDK Release Notes
ID:	0b479f2-1467249908
Status:	FINAL
Date:	2016-Jun-30, 1:33 (GMT)

### Digital Signature

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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 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.
- We packaged the HERE SDK as a dynamic framework rather than a static library. This means the HERE SDK is now up to 60% smaller when you add it to your app.
  - **Note:** If you are upgrading from an older version of the HERE iOS SDK, ensure you first remove the old `NMAKit.framework`, `NMABundle.bundle`, and linked libraries from your Xcode project before you add the new dynamic framework to your project. For more information, see the "Creating a Simple Application Using the HERE SDK" tutorial in the Developer's Guide.
- We have deprecated `NMARouteManager` and `NMATransportModePublicTransport` in this release. Car and Pedestrian routing is now handled by `NMACoreRouter`. Transit routing is now handled by a set of Urban Mobility (UM) routing classes, with the main entry point being the `NMAUrbanMobilityRouter` class. For more details, please see the Routing section in the Developer's Guide.

# Chapter 2

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## Changes

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**Topics:**

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

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 3.2

- Packaged the HERE SDK as a dynamic framework rather than a static library.
- The SDK now provides as a beta feature the option to input sensor data from a GNSS Receiver Module supporting Dead Reckoning (DR) for improved map matching accuracy.
- Extended the geopolitical view functionality to Places and Geocoding services. The HERE SDK now automatically returns the expected search results based on the inferred device locale.
- Developers may now create custom map schemes at runtime by modifying properties such as the color of map objects.
- A new version of the Custom Location Extension has been introduced.
- Public Transit routing is deprecated and replaced by Urban Mobility routing. Urban Mobility routing supports a superset of the features supported by PT routing in previous SDK releases.
- New APIs are provided to allow developers query the Public Transit coverage available at a location.
- The Urban Mobility departures board feature has been enhanced to display later/earlier departures. Also, multi-departure board is supported to address cases where in one location there may be multiple stations such as train, tram, and bus.
- Added support for offline HERE Positioning using Bluetooth (BTLE) as a beta feature.
- Added additional zoom levels (accessible through touch gestures) for venues, where content is available.
- When drawing a polyline or polygon inside a venue, the altitude may also be specified to ensure it is positioned correctly in 3D space.
- Added new indoor routing options to prefer or avoid stairs, elevators, and ramps.
- Added a new route calculation option for "Balanced" route (in addition to existing Fastest and Shortest).
- Places search now includes a new autosuggest request which takes as input the characters typed by a user and returns Place results and recommendations for other search requests.
- Provide new API to retrieve traffic events on a route.
- Provide capability for developers to subscribe to notifications during guidance for upcoming traffic cameras.
- Developers may now create and send multiple route calculation requests in parallel.

## 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	Setting the <code>NMAMapView trafficInfoVisible</code> property to <code>YES</code> now requires the map to be set to a traffic-enabled map scheme manually.
2	Due to changes in iOS 9, you are now required to add an App Transport Security <code>NSAllowsArbitraryLoads</code> exception to your <code>Info.plist</code> file.
3	We fixed a tunnel extrapolation issue with car navigation.
4	We fixed an issue where voice guidance does not reactivate after a phone call.
5	We fixed an issue where the audio from voice guidance interferes with an incoming call.
6	We fixed an issue where tunnel extrapolation becomes incorrect when an app resumes from the background.
7	We fixed an issue where public transit routes may contain broken segments.
8	We fixed an issue where public transport points of interests are incorrectly displayed in English.
9	We fixed an issue where a traffic object cannot be displayed on multiple <code>Map</code> instances.
10	We fixed an issue where <code>NMATrafficLayer</code> 's state is not taken into account when <code>NMAMapView.showTrafficLayers:</code> is called.
11	We fixed an issue where zooming out during navigation caused the navigation arrows to disappear.
12	We fixed an issue with <code>MapEngine</code> where an old map version continues to be used even after a map data update.
13	The maneuver angle reported for roundabouts now correctly reports the angle between the road entering and the road exiting the roundabout in a clockwise direction.

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	Function A formerly used <code>parameterB=erroneousvalue</code> by default, which caused performance issues in non-erroneous situations.	Function A sets the parameter accordingly taking the current value <code>parameterC</code> into account.
2	The Mode A interface was still enabled when switching from Mode B to Mode A and back.	In this case, the Mode A interface is disabled.

## API Changes

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### Added

- `NMAGeoPosition` `buildingId`
- `NMAGeoPosition` `buildingName`
- `NMAGeoPosition` `floorId`
- `NMAGeoPosition` `source`
- `NMAGeoPositionSource`
- `NMAPositionDataSourceAutomotive`
- `NMAApplicationContextError`
- `NMAApplicationContext` `isInitialized`
- `NMACLE2Geometry` `attributes`
- `NMACLE2GeometryPoint` `coordinate`
- `NMACLE2GeometryMultiPoint` `coordinates`
- `NMACLE2ProximityRequest` `initWithLayer:center:radius:`
- `NMACLE2ProximityRequest` `initWithLayers:center:radius:`
- `NMACLE2ProximityRequest` `startWithListener:`
- `NMACLE2ProximityRequest` `startWithBlock:`
- `NMACLE2ProximityRequest` `setQuery:`
- `NMACLE2Request`
- `NMACLE2Error`
- `NMACLE2RequestCompletionBlock`

## ► Changes

- NMACLE2Result geometries
- NMACLE2ResultListener
- NMAMapView createCustomizableSchemeWithName:basedOnScheme:
- NMAMapView getCustomizableSchemeWithName:
- NMAMapView removeCustomizableSchemeWithName:
- NMAMapSchemeNormalDayWithTraffic
- NMAMapSchemeNormalDayWithTraffic
- NMAMapSchemeNormalNightWithTraffic
- NMAMapSchemeHybridDayWithTraffic
- NMAMapSchemeHybridNightWithTraffic
- NMAMapSchemeCarNavigationDayWithTraffic
- NMAMapSchemeCarNavigationNightWithTraffic
- NMAMapSchemeHybridCarNavigationDayWithTraffic
- NMACustomizableScheme colorForProperty:forZoomLevel:
- NMACustomizableScheme setColorProperty:forZoomRange:
- NMACustomizableScheme integerForProperty:forZoomLevel:
- NMACustomizableScheme setIntegerProperty:withValue:forZoomRange:
- NMACustomizableScheme floatForProperty:forZoomLevel:
- NMACustomizableScheme setFloatProperty:withValue:forZoomRange:
- NMACustomizableScheme name:
- NMACustomizablePropertyType
- NMASchemeColorProperty
- NMASchemeFloatProperty
- NMASchemeIntegerProperty
- NMACustomizableVariable allAvailableProperties:
- NMACustomizableVariable variableName:
- NMACustomizableVariable zoomRange
- NMACustomizableVariable propertyType
- NMACustomizableVariable propertyIdentifier
- NMACustomizableVariable zoomLevel
- NMACustomizableColor
- NMAZoomRange
- NMALaneInformation
- NMANavigationManager  
navigationManager:didUpdateLaneInformation:roadElement:
- NMASafetySpotWarner
- NMASafetySpotNotification
- NMASafetySpotNotificationInfo

## ► Changes

- NMASafetySpot
- NMAMapView safetySpotsVisible
- NMARoutingTypeBalanced
- NMADynamicPenalty addBannedArea
- NMADynamicPenalty removeBannedArea
- NMARoutingViolatedOption
- NMARoutingError
- NMARoutingError INSUFFICIENT\_MAP\_DATA
- NMARouter
- NMACoreRouter
- NMAUrbanMobilityRouter
- NMAPlaces createAutoSuggestionRequestWithLocation:partialTerm:
- NMAAutoSuggest
- NMAAutoSuggestPlace
- NMAAutoSuggestSearch
- NMAUrbanMobilityAccessPoint
- NMAUrbanMobilityAlert
- NMAUrbanMobilityArrival
- NMAUrbanMobilityCity
- NMAUrbanMobilityCityCoverageRequest startWithCompletionBlock:
- NMAUrbanMobilityCitySearchRequest initWithSearchText:
- NMAUrbanMobilityCitySearchRequest startWithCompletionBlock:
- NMAUrbanMobilityDeparture
- NMAUrbanMobilityDepartureBoard
- NMAUrbanMobilityDepartureBoardRequest initWithStation:
- NMAUrbanMobilityDepartureBoardRequest initWithStationId:location:
- NMAUrbanMobilityDepartureBoardRequest startWithCompletionBlock:
- NMAUrbanMobilityDepartureFrequency
- NMAUrbanMobilityExploredCoverage
- NMAUrbanMobilityIntermediateStop
- NMAUrbanMobilityLine
- NMAUrbanMobilityManeuver
- NMAUrbanMobilityMissingCoverage
- NMAUrbanMobilityMultiBoardRequest initWithLocation:, startWithCompletionBlock:
- NMAUrbanMobilityNearbyCoverageRequest initWithLocation:, startWithCompletionBlock:
- NMAUrbanMobilityNearbyCoverageResult

## ► Changes

- NMAUrbanMobilityOperator
- NMAUrbanMobilityProvider
- NMAUrbanMobilityRequestManager - sharedRequestManager
  - createStationSearchRequestWithLocation:
  - createStationSearchRequestWithIds:
  - createDepartureBoardRequestWithStation:
  - createMultiBoardRequestWithLocation:
  - createDepartureBoardRequestWithStationId:location:
  - createCitySearchRequestWithSearchText: createCityCoverageRequest
  - createNearbyCoverageRequestForLocation:
- NMAUrbanMobilityRouteResult
- NMAUrbanMobilityRouteSection
- NMAUrbanMobilityRouteSectionTransit
- NMAUrbanMobilityRouteSectionWalk
- NMAUrbanMobilitySearchRequest
- NMAUrbanMobilityStation
- NMAUrbanMobilityStationSearchRequest initWithLocation:
- NMAUrbanMobilityStationSearchRequest initWithStationIds:
- NMAUrbanMobilityStationSearchRequest startWithCompletionBlock:
- NMAUrbanMobilityStationWithDepartureBoard
- NMAUrbanMobilityTariff
- NMAUrbanMobilityTicket

**Deprecated**

- NMALaneInfo
- NMANavigationManager navigationManager:didUpdateLaneInfo:visible:
- NMARoutingTypeEconomic
- NMARouteManager
- NMARouteManager NMARouteManagerError
- NMARouteManager NMARouteViolatedOption
- NMARouteManager dynamicPenalty
- NMARouteManager sharedRouteManager
- NMDynamicPenalty addPenalty
- NMDynamicPenalty removePenaltyForArea
- NMALink url

## Changed

- Updated `NMAApplicationContext:setAppId:appCode:licenseKey` to return `NMAApplicationContextError` if the failure was caused by the HERE authentication credentials and license Key.
- `NMAApplicationContext setAppId:appCode:licenseKey:` - Updated API to return `NMAApplicationContextError`.
- `NMAMapView mapScheme`, `NMAMapView setMapScheme` - Added support for customizable schemes
- `NMAMapPolygon isValid` - `isValid` will now return `FALSE` if vertices have different altitudes.
- `NMAMapView trafficVisible`, `showTrafficLayers`, `hideTrafficLayers`, and `isTrafficLayerVisible` - It is now possible to change the state of `NMATrafficLayer` visibility while `trafficVisible` is `NO`. Settings will be saved and applied when `trafficVisible` is set to `YES`. By default, all `NMATrafficLayers` are set to visible.
- `NMAMapView trafficVisible` - Also, traffic can only be displayed on one Map at a time. It is recommended that you turn off traffic display on other Maps before enabling traffic display on a new Map otherwise the results may be unpredictable. If multiple Maps are shown at the same time with `trafficVisible YES`, only one will display traffic.
- `NMAManeuver angle` - For some roundabouts, this angle is an approximation from the entry to the exit point of the roundabout, which may be used for customization of the roundabout icon.
- `NMARouteManager NMARouteViolatedOption` - The `violatedOptions` value returned from `NMARouteManager/NMARouter` is an OR combination of `NMARoutingOption` and `NMARouteViolatedOption` values.
- `NMARouteManager calculateRouteWithStops` - Removed support of using `NMAGeoCoordinates` as a stop.

## 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>
```

► Changes

- `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.

# 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 v3.2 Developer's Guide.pdf</code>	HERE iOS SDK Developer's Guide
<code>HERE iOS SDK Premium Edition v3.2 Release Notes.pdf</code>	This document
<code>Framework/NMAKit.framework</code>	HERE iOS SDK

## Getting Started

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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 20 from a user-accessible area of their application.

# 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 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.

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```

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```

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on 2007-04-11. Lifted from version 5.2 of the 'Open Mash' project with  
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-----  
  
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Mesa 3-D graphics library  
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=== ICU 1.8.1+ ===

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=== Lua 5.1.3 ===

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=== LZ4 r126 ===

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=== malloc\_count ===

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=== OpenSSL 1.0.1.s ===

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```
=== rapidjson 1.0 ===
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MODP_ASCII - Ascii transformations (upper/lower, etc)
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```

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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 (deflate format) and rfc1952 (gzip format).
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```
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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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