

# HERE Android SDK

Release Notes

Premium Edition Version 3.3

The logo consists of the word "here" in a bold, blue, lowercase sans-serif font, rotated approximately 45 degrees clockwise.

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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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### Product

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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 Android 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 Android 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 Android SDK, with respect to a particular release version. It also includes the issues reported, open and solved within this release.

## Highlights

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

For details about the issues fixed in this release, see [Resolved Issues](#) on page 10.

# 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 Android SDK - Premium Edition Release Notes](#)



## New Features

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

### HERE SDK 3.3

- The HERE Android SDK is now packaged as an `.AAR` file. You no longer need to import `.JAR` and `.SO` files separately.
- 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	We have updated the instructions for using an isolated map service cache. See the Map Service section in the Developer's Guide for more details.
4	HERE SDK is now packaged as a single AAR file instead of separate JAR and native library components. The Proguard file is also included in the AAR file, and there is no need to include it separately.

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For added and improved functionality in previous releases, see the relevant chapters in these documents: [HERE Android SDK - Premium Edition Developer's Guide](#)

## Resolved Issues

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

**Table 2: Resolved Issues**

#	Issue	Solution
1	A traffic object cannot be displayed on multiple Map instances	We fixed an issue where a traffic object cannot be displayed on multiple Map instances. These map instances must be in separate activities. If multiple Maps are shown at once, traffic can only be displayed on one Map at a time.
2	Incorrect maneuver angles for roundabouts.	This issue is fixed and it no longer occurs.
3	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.
4	Simplified Chinese can appear for countries where the device language is set to Traditional Chinese (Hong Kong).	This issue is fixed and no longer appears.
5	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.
6	Under certain cases, a blank map view or an app crash can occur when the HERE SDK resumes from the background.	This has been fixed in this release.

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## API Changes

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### Added

- `OnEngineInitListener.Error.WRONG_SERVICE_INTENT_NAME`
- `LocationDataSourceHERE`
- `LocationDataSourceHERE.IndoorPositioningModeSetResult`
- `LocationDataSourceHERE.IndoorPositioningMode`

## ► Changes

- `CLE2DataManager`
- `CLE2DataManager.CLE2DownloadListener`
- `CLE2Request.CLE2Error.CLE2ErrorCode`
- `CLE2Request.CLE2ConnectivityMode`
- `CLE2Request.setCachingEnabled()`
- `CLE2Request.setConnectivityMode()`
- `CLE2Request.getConnectivityMode()`
- `CLE2Request.CLE2Error.CLE2Error(CLE2ErrorCode, String)`
- `CLE2Request.CLE2Error.getErrorMessage()`
- `CLE2Request.CLE2Error.getErrorCode()`
- `CLE2Request.CLE2Error.CANCELLED`
- `CLE2Request.CLE2Error.UNKNOWN`
- `CLE2Result.getConnectivityModeUsed()`
- `MapFragment.getPositionIndicator()`
- `CoreRouter.setConnectivity()`
- `CoreRouter.getConnectivity()`
- `UMRoute.getTariffs()`
- `UMCalculateResult.ViolatedOption.ESTIMATED_ROUTING`
- `RoutingError.NETWORK_COMMUNICATION`
- `Route.SerializerError`
- `Route.SerializationResult`
- `Route.DeserializationResult`
- `Route.serialize(Route)`
- `Route.deserialize(byte[])`
- `Route.getRouteGeometryWithElevationData()`
- `Request<T>.Connectivity`
- `Request<T>.setConnectivity()`
- `Request<T>.getConnectivity()`
- `CombinedRoute.getStart()`
- `CombinedRoute.getEnd()`
- `CombinedRoute.getWaypoints()`
- `CombinedRoute.conformsConnectorOptions()`
- `CombinedRoute.conformsModeOptions()`
- `Content.getEmail()`
- `Level.equals(object)`
- `Level.hashCode()`
- `RoutingController.calculateCombinedRoute(points, options)`
- `SpatialObject.equals(object)`

## ► Changes

- `SpatialObject.hashCode()`
- `Venue.equals(object)`
- `Venue.hashCode()`
- `VenueInfo.getIsAlternativeSource()`
- `VenueLayerAdapter`
- `VenueMapFragment.getPositionIndicator()`
- `VenueMapView`
- `VenueService.VenueLoadStatus`
- `VenueService.VenueLoadListener`
- `VenueService.VenueServiceStopListener`
- `VenueService.VenueServiceClearCacheListener`
- `VenueService.InitStatus.ONLINE_FAILED`
- `VenueService.InitStatus.LOCKED`
- `VenueService.createAdditionalService(context)`
- `VenueService.addVenueLoadListener(listener)`
- `VenueService.removeVenueLoadListener(listener)`
- `VenueService.isCombinedContent()`
- `VenueService.isPrivateContent()`
- `VenueService.isTestEnv()`
- `VenueService.setIsCombinedContent(isCombinedContent )`
- `VenueService.stopAsync(stopListener)`
- `VenueService.stopAndClearCache(listener)`
- `StatusListener.onOfflineModeChanged(boolean)`
- `StatusListener.onAirplaneModeEnabled()`
- `StatusListener.onWifiScansDisabled()`
- `StatusListener.onBluetoothDisabled()`
- `StatusListener.onCellDisabled()`
- `StatusListener.onGnssLocationDisabled()`
- `StatusListener.onNetworkLocationDisabled()`
- `StatusListener.onServiceError(ServiceError)`
- `StatusListener.onPositioningError(PositioningError)`
- `StatusListener.ServiceError`
- `StatusListener.PositioningError.NONE,`
- `StatusListener.PositioningError.POSITION_NOT_FOUND`
- `StatusListenerAdapter`
- `NavigationManager.getTtsOutputFormat()`
- `NavigationManager.setTtsOutputFormat()`

## Deprecated

- `com.here.android.mpa.customlocation` package
- `CLE2PointGeometry.setPoint()`
- `CLE2MultiPointGeometry.setPoint()`
- `RouteOptions.TRACK`
- `RoutingError.REQUEST_TIMEOUT`
- `VenueServiceListener.onGetVenueCompleted(venue)`

## Changed

- `com.here.android.mpa.urbanmobility` has been refactored. For more details about this beta feature, see the API Reference.
- `UMRoute.getDepartureLocation()` - Replaced by `getDeparture()`
- `UMRoute.getArrivalLocation()` - Replaced by `getArrival()`
- `UMRoute.getTicketCollections()` - Replaced by `getTariffs()`

## 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 Android SDK - Premium Edition Release Notes](#)

## Known Issues

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The following list contains issues known to be present in the current release of the HERE Android SDK.

- Devices using the MediaTek MT65XX chipset family have a known GPU shader error where rendering extruded buildings causes random color flickers. Turn off extruded building rendering on these devices. For more information, see `Map.setExtrudedBuildingsVisible(false)`.
- There is a known issue Android 6.0 that causes the `MapOffscreenRenderer` to fail on devices that use the Qualcomm 800 chipset, such as the Nexus 5.
- `RouteManager/CoreRouter.cancel()` - For `RouteManager` and `CoreRouter`, the `cancel` function will not work when a route is calculated with `TransportMode#PUBLIC_TRANSPORT`. Use the new Urban Mobility feature for public transit routing (see `UMRouter`).
- Due to an issue with the Nexus 6P GPU drivers, an error can occur when the map is zoomed out to the lowest zoom level.
- Calling `GeocodeRequest.setSearchArea(GeoCoordinate, int)` with a radius of zero meters invokes a global search. This is a temporary behavior, and it is likely to change in a future release.

- 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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This section lists known limitations and, if available, related workarounds in the current release.

**Table 3: Limitations and Workarounds**

#	Limitation	Workaround
1	On Android 4.2 or earlier devices, zooming out to the lowest level, where the Globe is visible, can cause the map to freeze.	Use Android 4.3 or higher devices to avoid this behavior.
2	Users may encounter map loading issues on Samsung devices that have Power Saving mode enabled. A blank map may appear instead.	To avoid this issue, your app needs to be whitelisted from Power Saving mode under <b>Settings &gt; Battery</b> .

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# 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 / Code</b>	One or more sample applications

## Package Description

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HERE Android SDK Premium Edition v3.3 Release Notes.pdf	This document
Here-sdk.zip	HERE Android SDK
HERE-sdk.zip/HERE-sdk/libs	Native and Java libraries
HERE-sdk.zip/HERE-sdk/libs/docs	API Reference documentation
HERE-sdk.zip/HERE-sdk/tutorial	Sample applications to be used with the Quick Start section in the Developer's Guide
HERE-sdk.zip/HERE-sdk/user-guide/HERE Android SDK Premium Edition v3.3 Developer's Guide.pdf	HERE Android SDK Developer's Guide
HERE-sdk.zip/HERE-sdk/misc/	Contains a sample Voice Skin file to be used with the Voice Navigation feature
HERE-sdk.zip/Indoor-Positioning-Solution/here_indoor_radio_mapper-4.2.apk	HERE Indoor Radio Mapper Android app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Positioning v2.0 Installation Guide.pdf	Instructions on how to set up an Indoor Positioning environment
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.2 Release Notes.pdf	Release Notes about the Indoor Radio Mapper app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.2 User Guide.pdf	Instructions on how to use the Indoor Radio Mapper app to create indoor maps that can be used with HERE Positioning



## Getting Started

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Refer to the documentation under the `HERE-sdk.zip/user-guide/` folder for details on how to start using the HERE Android SDK.

# 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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- Android 4.0.3 "Ice Cream Sandwich" (API Level 15) or higher as the application Minimum API Level (`android:minSdkVersion`).
  - 60MB of memory (RAM) be made available for foreground applications using the HERE SDK
  - For storage of application binaries, an additional ~20MB for the HERE SDK libraries if bundled with the application should be taken into account
  - Mass storage is required for persistent storage of map data. At a minimum, 50MB of free space is required to be available for map data
- 📖 **Note:** HERE Android SDK does not support x86 Android devices or emulators. It is recommended that testing is performed on ARM-based devices.

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```
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=== malloc_count ===
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```
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Credits
```

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Even Rouault       - ZIP64 unzip Support  
Daniel Borca       - BZip Compression method support in unzip  
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=== rapidjson 1.0 ===

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=== rg_etc 1.04 ===

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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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Original code by Lee Thomason ([www.grinninglizard.com](http://www.grinninglizard.com))

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=== GSON 2.2.4 ===

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