



HERE Android SDK

Release Notes

Premium Edition Version 3.3.1

Important Information

Notices

Topics:

This section contains document notices.

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

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Chapter 1

Overview

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

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

Chapter 2

Changes

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

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

- Note:** As of SDK release 3.3, the HERE Android SDK is packaged as an Android archive (AAR) file instead of separate JAR file, native libraries, and proguard components. If you are upgrading from a release older than v3.3, you should clean up old components before integrating the AAR version of the HERE SDK. For more information, see the **Development Tips** section in the Developer's Guide.

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

Table 1: Functional and Behavioral Changes

#	Description
1	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.
2	We improved the rendering of map details in China.
3	3D Venues: We have added support for development (CIT) environments in the venue service.
4	3D Venues: We have added support of custom properties in venue content objects.
5	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.
6	HERE Positioning: We have made a number of changes to improve performance in indoor positioning detection, location fix times, and motion updates.
7	HERE Positioning: From 3.3 onwards default location source is always "platform" and the SDK user can change this during runtime using <code>PositioningManager.setDataSource()</code> .
8	HERE Positioning: v3.3 offers new API for controlling indoor positioning mode. By using <code>LocationDataSourceHERE.setIndoorPositioningMode()</code> , developers can opt to use community or private radiomaps, or even draft radiomaps before publishing them to the production.
9	HERE Positioning: We added new APIs in v3.3 to listen for positioning status information. This feature is supported only by the HERE location data source and is not available when using platform positioning.

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

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

Table 2: Resolved Issues

#	Issue	Solution
1	No traffic is shown when the Transit scheme is enabled.	This issue is fixed in this release. Traffic is shown in the transit scheme if it is enabled.
2	Under certain circumstances, the default text-to-speech engine does not download data for an existing text-to-speech voice.	This issue is fixed in this release. If the text-to-speech language data is not available on the device, HERE SDK now triggers an automatic download upon initialization.
3	If a resident foreground service is used, the map service can become unresponsive and maps cannot be downloaded after a callback.	This issue is fixed in this release. We have made a change in the internal logic of how we shut down the map service.
4	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.
5	Bounding boxes have strange boundaries when they are near the 180 degrees of longitude.	This issue is fixed in this release.
6	No callbacks are returned if offline searches are performed with certain Chinese characters in the query.	This is fixed in this release.
7	Map package is not shown as installed in the map package list after an SDK update.	We have fixed an issue where an application built using SDK 3.2.x, and which has map data downloaded, does not show the previously installed map data after upgrading to SDK 3.3.
7	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.
8	Satellite images flicker during panning.	We have improved the rendering of satellite imagery while the user is panning the satellite map in this release.
9	The navigation manager can crash when a specific set of waypoints are used.	An issue related to how the SDK handles route geometry was discovered and fixed. This improves the robustness of route processing during navigation.
10	If a custom positioning indicator is used, the indicator is shown at the coordinates of <code>[0.0, 0.0]</code> .	This issue is fixed in this release.
11	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.
12	Under random circumstances, crashes may occur within HERE Positioning due to network disconnection.	This issue was investigated and fixed in this release.

#	Issue	Solution
13	The start flag in venue routing is always located on the ground floor.	This issue was fixed in this release.
14	There are some performance issues with localized names in the Venues API.	This issue was fixed in this release. We have improved the logic to select the right language for a place if multiple languages are available.
15	Venues: Initialization in combined mode fails if there is no private venue data.	This issue was fixed. Public data is used if no private venue data is available.
16	Unable to set locale to Norwegian properly.	We have found an error with an incorrect Norwegian language code. This is fixed in this release.
17	During initialization, some users may see their apps crash with the runtime exception "Cannot initialize the engine twice".	This is now resolved. We have fixed a bug that causes crashes when MapEngine fails to initialize.

API Changes

Added

- `RoadElement.FormOfWay.SERVICE_ACCESS`
- `CustomConfigurations` - For future use. The API allows the developer to customize the design of the map.
- `VenueService.isDevEnv()`
- `VenueService.setDevEnv()`
- `Content.getCustomAttributes()`
- `Route.getPermanentLinkIds()`
- `RoadElement.getPermanentLinkIds()`

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.
- `MapLoader.checkForMapDataUpdate()`, `MapLoader.performMapDataUpdate()` - The 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.

For API changes in previous releases, see the relevant chapters in these documents: [HERE Android SDK - Premium Edition Release Notes](#)

Known Issues

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

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 Settings > Battery .

Chapter 3

Package Information

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

Native APIs	Enabling native applications to leverage HERE functionality
Documentation	API Reference Documentation and Developer Guide
Sample Applications / Code	One or more sample applications

Package Description

HERE Android SDK Premium Edition v3.3.1 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 v3.3.1 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-4.3.apk	HERE Indoor Radio Mapper Android app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Positioning v2.1 Installation Guide.pdf	Instructions on how to set up an Indoor Positioning environment
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.3 Release Notes.pdf	Release Notes about the Indoor Radio Mapper app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.3 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

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

Appendix

Appendix

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

- 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.

Copyright Information

- ☒ **Note:** Developers using the HERE Android SDK in their application projects must embed the following legal text from a user-accessible area of their application. This text is also available as a separate file in the HERE SDK package.

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Mesa 3-D graphics library

Version: 7.0

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=== malloc_count ===

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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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