



HERE Android SDK

Release Notes

Premium Edition Version 3.8

Important Information

Notices

Topics:

This section contains document notices.

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

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Contents

Chapter 1: Overview	6
Highlights.....	7
Chapter 2: Changes	8
New Features.....	9
Functional and Behavioral Changes.....	9
Resolved Issues.....	9
API Changes.....	10
Known Issues.....	11
Limitations and Workarounds.....	12
Chapter 3: Package Information	13
Release Content.....	14
Package Description.....	14
Getting Started.....	14
Appendix : Other Information	15
System Requirements.....	16
Copyright Information.....	16

Chapter 1

Overview

Topics:

- [Highlights](#)

This document provides a summary of important changes for this version. Apart from newly resolved issues and added or improved functionality, this document also includes information about known issues remaining in this release as well as any existing limitations and workarounds.

Highlights

The following highlights give a short summary of the most important changes, added functionality and improvements:

- The Map Data Prefetcher feature is no longer in beta. For more information, see the *Preloading Map Data* section in the Developer's Guide.
- This is the last release where offline routing supports on demand map data downloads. Starting from the next release, map data must be downloaded or prefetched beforehand for offline routing to work properly.
- The API Reference is now offered separately from the Developer's Guide in the release package.
- For a list of all new features in this release, see [New Features](#) on page 9

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 3.8

- Added a new cartographic POI category for EV Charging Stations
- Added scooter routing as a new beta feature. Scooter routes are optimized for scooter and motorbikes by avoiding highway and having less impact in time-to-arrival than car routes when traveling through an area with high traffic.
- Added turn-by-turn navigation support for scooter routes.
- We support extended maximum zoom level as a beta feature. This is turned off by default. Once turned on, maximum zoom level is extended to zoom level 23.
- Added the ability to query for the estimated data size of selected area or route before prefetching.
- Added support for displaying drop shadows on polylines.
- Added the ability to retrieve the URI of a venue space's icon.

Functional and Behavioral Changes

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

Table 1: Functional and Behavioral Changes

#	Description
1	We deprecated all Urban Mobility features in this release. If you were using Urban Mobility routing features, use <code>CoreRouter</code> with <code>TransportMode.PUBLIC_TRANSPORT</code> instead.
2	The Map Data Prefetcher feature is no longer in beta. For more information, see the <i>Preloading Map Data</i> section in the Developer's Guide.  Note: Starting with the next release, offline routing will require map data to be preloaded by downloading map packages or by prefetching map data using the map data prefetcher feature.
3	<code>getMaxZoomLevel()</code> now returns maximum zoom level based on device's PPI.
4	The API reference is no longer embedded in the Developer's Guide. It can be found in the release package, in the Javadoc format.

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

#	Description
1	Fixed an issue where dynamic penalties are not considered in a re-routing operation.
2	Fixed an issue where <code>getScaleFromZoomLevel()</code> does not return an accurate scale value.
3	Fixed the issue where raster tiles are not properly rendered when the map is tilted.
4	Fixed an issue where <code>UninitializedMapEngineException</code> is thrown after map initialization completed successfully.
5	Fixed an issue where silencing a stopover announcement does not work properly in certain maneuver instructions.
6	Fixed an issue where cluster markers are not expanded when the map is at the maximum zoom level.
7	We now provided a more specific error code when the map fails to initialize due to an incorrect use of the map service.
8	Improved tunnel navigation and tunnel extrapolation.
9	Updated the open source curl library to 7.60.0.

API Changes

Added

- `LocationDataSource.isValidForMapMatching`
- `OnEngineInitListener.Error.NON_EXPORTED_SHARED_SERVICE`
- `OnEngineInitListener.Error.EXPORTED_ISOLATED_SERVICE`
- `GeoPosition.TECHNOLOGY_SENSORS`
- `IconCategory.EV_CHARGING_STATION`
- `MapRasterTileSource.isFallbackEnabled()`
- `MapPolyline.enableShadow`
- `MapPolyline.disableShadow`
- `MapPolyline.isShadowEnabled`
- `MapPolyline.setShadowOffsets`
- `MapPolyline.setShadowSizeIncrement`
- `MapPolyline.getShadowSizeIncrement`
- `MapPolyline.getShadowOffsetX`
- `MapPolyline.getShadowOffsetY`
- `MapPolyline.setShadowShearFactor`
- `MapPolyline.getShadowShearFactor`
- `MapPolyline.setShadowWidth`
- `MapPolyline.getShadowWidth`
- `MapPolyline.setShadowColor`
- `MapPolyline.getShadowColor`
- `Map.isExtendedZoomLevelsEnabled`
- `Map.setExtendedZoomLevelsEnabled`
- `MapDataPrefetcher.estimateMapDataSize(GeoBoundingBox)`
- `MapDataPrefetcher.estimateMapDataSize(Route,int)`

► Changes

- `MapDataPrefetcher.Listener.onDataSizeEstimated`
- `MapDataPrefetcher.Adapter.onDataSizeEstimated`
- `RouteOptions.setDeviationDistanceToPedestrianReroute`
- `RouteOptions.getDeviationDistanceToPedestrianReroute`
- `RouteOptions.TransportMode.SCOOTER`
- `AutoSuggest.getUrl`
- `Space.getIconUri`
- `VenueMapLayer.VenueControllerCreationListener.onVenueControllerCreated`
- `VenueMapView.isVenueUpdatesEnabled`
- `VenueMapView.setVenueUpdatesEnabled`
- `VenueService.VenueLoadingListener.onVenuesLoaded`
- `VenueLayerAdapter.isVenueUpdatesEnabled`
- `VenueLayerAdapter.setVenueUpdatesEnabled`
- `VenueMapLayer.isVenueUpdatesEnabled`
- `VenueMapLayer.setVenueUpdatesEnabled`
- `VenueMapFragment.isVenueUpdatesEnabled`
- `VenueMapFragment.setVenueUpdatesEnabled`
- `VenueManeuver.getNaturalGuidanceBlacklist`
- `VenueManeuver.addCategoryToNaturalGuidanceBlacklist`
- `VenueManeuver.removeCategoryFromNaturalGuidanceBlacklist`

Deprecated

- `com.here.android.mpa.urbanmobility` package
- `Map.LayerCategory.LAND_PARCEL`
- `VenueMapFragment.VenueZoomListener`
- `VenueService.enableVenueZoom`
- `VenueService.isVenueZoomEnabled`

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

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

- On Samsung Galaxy S6 devices with Android 6.0.1, extruded buildings appear transparent when the feature is enabled.
- 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.

► Changes

- `CoreRouter.cancel()` - This method does not work when a route is calculated with `TransportMode#PUBLIC_TRANSPORT`.
- 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 Application	Sample application project
Indoor Positioning Solution	Instructions to support HERE indoor positioning

Package Description

HERE Android SDK Premium Edition v3.8 Release Notes.pdf	This document
Here-sdk.zip	HERE Android SDK
HERE-sdk.zip/copyright.txt	Copyright and licensing text for the HERE Android SDK. A copy of this text is also available in the Release Notes.
HERE-sdk.zip/version.txt	Version information about the HERE Android SDK.
HERE-sdk.zip/HERE-sdk/libs	Native and Java libraries
HERE-sdk.zip/libs/docs/mapsdoc	API Reference documentation
HERE-sdk.zip/HERE-sdk/tutorial	Sample application 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 v3.8 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/docs/Indoor Positioning v3.4 Installation Guide.pdf	Instructions on how to set up an Indoor Positioning environment

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

Other Information

Topics:

- [System Requirements](#)
- [Copyright Information](#)

This appendix contains other information about the release such as release overview, technical specifications, dependencies, 3rd party copyright notices, release quality and related documents.

System Requirements

HERE Android SDK is designed and tested with Android phones and tablets in mind. SDK performance will vary between devices, since it is primarily determined by CPU, GPU, and display resolution. Currently, Nexus 5 is a suitable reference for a device which delivers acceptable SDK performance. If your target device is not a phone or tablet, contact us to discuss performance requirements.

- Android 4.1.x "Jelly Bean" (API Level 16) or higher as the application Minimum API Level (`android:minSdkVersion`).
 - Apps should be developed using Android Studio 2.3.2 or above.
 - For apps that implement basic use cases such as map rendering, search, and routing, a minimum of 60MB of memory (RAM) is recommended to be available. More complex use cases, such as turn-by-turn navigation, require more memory.
 - For the storage of application binaries, an additional 25MB for the HERE SDK libraries, if bundled with the application, should be taken into account.
 - For storage of map data, a minimum of 50MB should be made available.
 - Data connectivity (WiFi or Cellular) is required to download map data and ensure map data is updated when new versions are made available.
- 📄 **Note:** HERE Android SDK does not support x86 Android and x86_64 devices. x86 emulators are supported. It is recommended that testing is performed on ARM and ARM64 devices.

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- 📄 **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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=== 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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=== ReLinker 1.2.2 ===

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