



HERE Android SDK

Release Notes

Premium Edition Version 3.7

Important Information

Notices

Topics:

This section contains document notices.

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

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Document Information

Product

Name: HERE Android SDK

Version: Premium Edition Version 3.7

Document

Name: HERE Android SDK Release Notes

ID: 5c6fd8c-1522389661-3db914db

Status: FINAL

Date: 2018-Mar-30, 6:14 (GMT)

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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:

- Street Level Imagery is now marked as a deprecated feature and is no longer available for evaluation. Customers using Street Level Imagery in deployed applications may continue to use the feature. Please contact your HERE representative for more details.
- We added support for the arm64-v8a architecture.
- 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 3.7

- Added support for the arm64-v8a architecture. For more information, see "Device and Emulator Support" in the Developer's Guide.
- Added Map Data Prefetching as a beta feature. This feature allows users to download map data by specifying a route or a bounding box, rather than by a region using the map loader, or by panning the map.
- Added the ability to customize route outline colors.
- Extended options to configure voice guidance prompts.

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 the Street Level Imagery feature. Customers using Street Level Imagery in deployed applications may continue to use the feature. Please contact your HERE representative for more details.
2	We now support Map Prefetching and using the Map Loader to cache map data for offline purposes. If your app uses the offline maps feature, ensure that it is explicitly using one of these two methods. Caching data through panning the map is not recommended as offline routing will only work on map data downloaded via Map Prefetching or Map Loader after SDK 3.7.
3	We have changed the map display so that the HERE logo is not displayed when the logo size takes up more than 1/8 of the screen width or screen height.
4	We deprecated extended Venue Zoom Level support as higher zoom levels are now supported in the map view when a venue is selected.

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	Added clearer error messages for cases where the map engine failed to initialize due to mismatched or expired app credentials.
2	Fixed an issue where <code>MatchedGeoPosition.getMatchQuality()</code> was not returning proper match quality values for pedestrian navigation.
3	Fixed an issue where the copyright logo position cannot be set to Bottom-Left or Bottom-Right.
4	Fixed an issue where <code>getElapsedDistance()</code> returns 0 meters after the vehicle stops.
5	Addressed a performance degradation seen in offline search.
6	Fixed an issue where the returned POI category description in an offline search is not Traditional Chinese when the device setting is a region that uses Traditional Chinese.
7	Fixed an issue in Navigation that caused the current maneuver to become null for certain road segments.
8	Fixed the issue where a long <code>MapPolyline</code> does not always trigger <code>onMapObjectsSelected</code> .

API Changes

Added

- `PositioningManager.isProbeDataCollectionEnabled()`
- `PositioningManager.enableProbeDataCollection(boolean)`
- `CopyrightLogoPosition.BOTTOM_LEFT`
- `CopyrightLogoPosition.BOTTOM_RIGHT`
- `VoiceGuidanceOptions`
- `VoiceGuidanceOptions.Range`
- `VoiceGuidanceOptions.RoadType`
- `VoiceGuidanceOptions.VoicePromptType`
- `MapRoute.setOutlineColor()`
- `MapRoute.getOutlineColor()`
- `MapDataPrefetcher.cancelRequest()`
- `MapDataPrefetcher.cancelAllRequests()`
- `MapDataPrefetcher.fetchMapData(GeoBoundingBox)`
- `MapDataPrefetcher.fetchMapData(Route, int)`
- `MapDataPrefetcher.clearMapDataCache()`
- `MapDataPrefetcher.addListener()`
- `MapDataPrefetcher.removeListener()`
- `MapDataPrefetcher.getInstance()`
- `MapDataPrefetcher.Request`
- `MapDataPrefetcher.Listener.onProgress()`
- `MapDataPrefetcher.Listener.onStatus()`
- `MapDataPrefetcher.Listener.onCachePurged()`
- `MapDataPrefetcher.Adapter.onProgress()`
- `MapDataPrefetcher.Adapter.onStatus()`
- `MapDataPrefetcher.Adapter.onCachePurged()`

► Changes

- `UMRouter.setConnectivity(CoreRouter.Connectivity)`
- `Units`
- `UMRouteOptions.getUnits()`
- `UMRouteOptions.setUnits(Units)`
- `ParkAndRideRouteOptions.ParkingSearchStrategy.fromString()`
- `Map.setExtendedZoomLevels()`
- `RoutingController`
- `Map.setExtendedZoomLevels()`
- `RoutingController.showRoute()`
- `VenueManeuver.getLevelChangeType()`
- `VenueManeuver.setMapObject()`
- `VenueManeuver.getMapObject()`
- `VenueRouteStyleOptions.setStartRouteDefaultIconSize()`
- `VenueRouteStyleOptions.getStartRouteDefaultIconSize()`
- `VenueRouteStyleOptions.setStartRouteMapObject()`
- `VenueRouteStyleOptions.getStartRouteMapObject()`
- `VenueRouteStyleOptions.setEndRouteDefaultIconSize()`
- `VenueRouteStyleOptions.getEndRouteDefaultIconSize()`
- `VenueRouteStyleOptions.setEndRouteMapObject()`
- `VenueRouteStyleOptions.getEndRouteMapObject()`
- `VenueRouteStyleOptions.setEnterCarDefaultIconSize()`
- `VenueRouteStyleOptions.getEnterCarDefaultIconSize()`
- `VenueRouteStyleOptions.setEnterCarMapObject()`
- `VenueRouteStyleOptions.getEnterCarMapObject()`
- `VenueRouteStyleOptions.setLeaveCarDefaultIconSize()`
- `VenueRouteStyleOptions.setLeaveCarDefaultIconSize()`
- `VenueRouteStyleOptions.setLeaveCarMapObject()`
- `VenueRouteStyleOptions.getLeaveCarMapObject()`
- `VenueRouteStyleOptions.setConnectorsDefaultIconSize()`
- `VenueRouteStyleOptions.setConnectorsDefaultIconSize()`
- `VenueRouteStyleOptions.setWaypointsDefaultIconSize()`
- `VenueRouteStyleOptions.getWaypointsDefaultIconSize()`
- `VenueRouteStyleOptions.setMapObjectForWaypoint()`
- `VenueRouteStyleOptions.getMapObjectForWaypoint()`

Deprecated

- `NavigationManager.setVoiceSkin()`
- `NavigationManager.getVoiceSkin()`
- `NavigationManager.setTtsOutputFormat()`
- `NavigationManager.getTtsOutputFormat()`
- `NavigationManager.isTtsLanguageAvailable()`
- `NavigationManager.isManeuverVoiceoverEnabled()`
- `NavigationManager.setManeuverVoiceoverEnabled()`
- `NavigationManager.getVoiceGuidanceSettings()`
- `Map.setStreetLevelCoverageVisible()`
- `Map.isStreetLevelCoverageVisible()`

► Changes

- `com.here.android.mpa.streetlevel`
- `VenueController.useVenueZoom()`
- `VenueController.getModelScale()`
- `VenueController.getScaledGeoCoordinate()`
- `VenueController.getNormalGeoCoordinate()`
- `VenueGestureListener`

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.
- `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 Application	Sample application project
Indoor Positioning Solution	Apps and instructions to support HERE indoor positioning

Package Description

HERE Android SDK Premium Edition v3.7 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/HERE-sdk/libs/docs	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 v3.7 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 v3.2 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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Mesa 3-D graphics library
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=== LZ4 r126 ===

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=== malloc_count ===

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Even Rouault	- ZIP64 unzip Support
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Portions of code from:

MODP_ASCII - Ascii transformations (upper/lower, etc)

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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
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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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=== ReLinker 1.2.2 ===

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