



HERE Android SDK

Release Notes

Premium Edition Version 3.5

Important Information Notices

Topics:

This section contains document notices.

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

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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:

- This version of the SDK has been updated to work with Android 8.0.
- We have aligned `CoreRouter.Connectivity` (for routing) and `Request.Connectivity` (for Places search) and made their effects more consistent and predictable. With this change, you have more control over fallback and error scenarios.
- 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 3.5

- Added support for Android 8.0. See [Functional and Behavioral Changes](#) on page 9.
- Added support for search modes in Reverse Geocoder requests
- Added beta feature to support route calculations based on fuel resource consumption.
- Added Natural Language Processing (NLP) as a beta feature. NLP is only available in English.
- Added the ability in HERE Positioning to automatically switch between community and private radiomaps

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	<p>The HERE SDK now supports Android 8.0. If you plan to support this version of the OS, be sure to test your apps for the following new behaviors:</p> <ul style="list-style-type: none"> • Android 8.0 releases any wakelocks that an app is holding when the app enters the cached state with no active components. • Android 8.0 is designed to preserve battery life and improve system health by giving less frequent location updates for background apps. With this change, your app may see less frequent navigation, positioning, and traffic warnings when the app is in the background. <p>For more information, see the Android Developers article Android 8.0 Behavior Changes.</p>
2	Apps that use an isolated disk cache at an internal storage location are no longer required to use the <code>android.permission.WRITE_EXTERNAL_STORAGE</code> permission.
3	Modified the way Wikipedia editorial links are queried from Place searches
4	<p>Aligned the behavior of the search connectivity modes (<code>CoreRouter.Connectivity</code>) and routing connectivity modes (<code>Request.Connectivity</code>) to be more consistent.</p> <ul style="list-style-type: none"> • If you launch a request using the <code>DEFAULT</code> connectivity mode, the request is performed according to the MapEngine connectivity setting. If the device is offline while MapEngine is set to online mode, the request fails. • If you launch a request using the <code>ONLINE</code> connectivity mode, an online request is performed, regardless of the MapEngine connectivity setting. • If you launch a request using the <code>OFFLINE</code> connectivity mode, an offline request is performed, regardless of the MapEngine connectivity setting. <p>In all cases, if the request fails, no fallback action is automatically performed.</p>
5	<code>MapLoader.getMapPackages()</code> can now work offline.
6	Made improvements to guidance roadview to provide smoother map movement.

#	Description
7	Carried out optimization to reduce the size of the SDK (by about 15%).
8	Setting IndoorPositioningMode to AUTOMATIC switches now automatically between Community and Private Indoor Positioning.
9	Updated the HERE Indoor Radio Mapper. For more information, check the files in the Indoor-Positioning-Solution folder.

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 partially downloaded maps are not displayed in the list of downloaded maps
2	Fixed an issue where a previously-installed map package is not shown as installed after a HERE SDK version update
3	Fixed an issue where traffic lines on the calculated route stays on the map after recalculation
4	Fixed an issue where the size of 2D Signpost images are unexpectedly affected by Junction View images
5	Fixed an issue where truck restrictions are not visible on truck-related map schemes.
6	Improved the error description for the case when an online search is performed but the device is offline
7	Fixed an issue where "green" traffic appears on top of a route
8	Fixed an issue where, in limited circumstances, the HERE SDK process stays alive in the background and consumes mobile data.
9	Fixed an issue where the traffic (time to arrival) delay is incorrect in the route results
10	Fixed an issue where PositioningManager.getLastKnownPosition() can cause a NullPointerException.
11	Fixed an issue where users cannot remove a downloaded map while offline.
12	Fixed an issue where if you do a tilt gesture on a map with a map overlay, the overlay does not reposition itself correctly.

API Changes

Added

- CompositeFragment.onInflate(Context, AttributeSet, Bundle)
- MapFragment.onInflate(Context, AttributeSet, Bundle)
- MapGesture.setAutoSnapToNorthEnabled(boolean)
- MapGesture.isAutoSnapToNorthEnabled()
- ReverseGeocodeMode

- `ReverseGeocodeRequest2.ReverseGeocodeRequest2(GeoCoordinate, Locale, ReverseGeocodeMode, float)`
- `Request.PLACE_CONTENT_WIKIPEDIA`
- `PlaceRequest.addContent(String placeContent)` - Note: Only `Request.PLACE_CONTENT_WIKIPEDIA` is currently supported.
- `PlaceRequest.getContent()`
- `com.here.android.mpa.nlp` package

Deprecated

- `NavigationManager.RoadView.setAnimationEnabled(boolean)`
- `NavigationManager.RoadView.getAnimationEnabled()`
- `CompositeFragment.onInflate(Activity, AttributeSet, Bundle)`
- `MapFragment.onInflate(Activity, AttributeSet, Bundle)`

Changed

- `MapLoader.uninstallMapPackages(List<Integer> packageIdList)` - It is now possible to uninstall packages while offline.
- `MapLoader.getMapPackages()` - It is now possible to get map packages while offline if it has been done while online once before.

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 `MapOfflineRenderer` 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 v3.5 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 v3.5 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-4.5.apk	HERE Indoor Radio Mapper Android app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Positioning v3.1 Installation Guide.pdf	Instructions on how to set up an Indoor Positioning environment
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.5 Release Notes.pdf	Release Notes about the Indoor Radio Mapper app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.5 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

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 devices or emulators. It is recommended that testing is performed on ARM-based 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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=== Lua 5.1.3 ===

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=== LZ4 r126 ===

LZ4 - Fast LZ compression algorithm

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=== malloc_count ===

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MiniZip -

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