



HERE Android SDK

Release Notes

Premium Edition Version 3.9

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.....	10
API Changes.....	10
Known Issues.....	12
Limitations and Workarounds.....	12
Chapter 3: Package Information	14
Release Content.....	15
Package Description.....	15
Getting Started.....	15
Appendix : Other Information	16
System Requirements.....	17
Copyright Information.....	17

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 9.0.
- Offline routing no longer works with on demand map data downloads. Starting with this release, map data must be downloaded or prefetched beforehand for offline routing to work properly.
- To ensure Turn-by-Turn navigation works in offline mode or area that has poor network connection, map data that covers the route should be first prefetched or downloaded via map loader.
- 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 3.9

- Enhanced routing options to exclude specified routing zones (such as environmental zones) from the calculated route as a Beta feature. For more information, see the API Reference for the `RoutingZone` class and [HERE Routing API documentation](#).
- Added support for Android 9.0. See [Functional and Behavioral Changes](#) on page 9.
- Added option to periodically retrieve and display alternative routes during guidance.
- Scooter routing will now take scooter-only roads into account.
- Enhanced `LaneInformation` APIs to identify the lane direction which corresponds with the next maneuver on the route.
- Added support for patterned polylines, polygons and circles.
- Added an option to suppress streets where the map does not provide a name, from Reverse Geocoder results.

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 9.0. 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"> • Apps that target Android 9 (API level 28) or higher and use foreground services must request the <code>FOREGROUND_SERVICE</code> permission. For more information, see Running a service in the foreground. • From Android 9.0 onwards plain text HTTP transfers are blacklisted unless configured explicitly. For more information, see Network security configuration. • From Android 8.0 onwards, in some cases it is not permitted to start service. For more information, see Background execution limits. <p>For more information, see the Android Developers article Android 9.0 Behavior Changes.</p>
2	<p>Made improvements to the quality of offline routes.</p> <p> Note: Offline routing no longer works with on demand map data downloads. Starting with this release, map data must be downloaded or prefetched beforehand for offline routing to work properly.</p>
3	<p>To ensure Turn-by-Turn navigation works in offline mode or area that has poor network connection, map data that covers the route should be first prefetched or downloaded via map loader.</p>
4	<p>Natural Language Processing (NLP) feature was removed.</p>

#	Description
5	Improved error handling during route creation: INSUFFICIENT_MAP_DATA error is returned when offline route calculation fails due to no or insufficient cached map data. GRAPH_DISCONNECTED error is only returned if all needed map data is downloaded but no route exists for the given route parameters. UNSUPPORTED_MAP_VERSION is returned for TransportMode.SCOOTER if online route calculation is requested using map version less 8.30.84.156. Previously, a NETWORK_COMMUNICATION error was returned.
6	Improved error reporting in MapLoader.
7	Improved error reporting during MapEngine initialization.
8	Added possibility to customize online ReverseGeocodeRequest2.
9	Improved localization in Places API requests.
10	The Indoor Positioning Installation Guide is no longer part of the release package. The HERE Indoor Positioning Installation Guide can be accessed from http://indoor.here.com .
11	Deprecated APIs for retrieving the time-to-arrival in Route and replaced with new APIs which make it clearer when the time-to-arrival is calculated using traffic downloaded to the device.
12	Now landmarks can be selected in IMPORTANT_BUILDINGS group in MapBuildingLayer.

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	We fixed an issue with incorrect map update size.
2	We improved displaying of multiple clustered POIs.
3	Fixed an issue where <code>map.pixelToGeo()</code> does not return invalid coordinate when tap is done outside the globe.

API Changes

Added

- `AutoSuggestQuery.getRequest`
- `Identifier.getString`
- `LaneInformation.getMatchedDirection`
- `MapCircle.PatternStyle`
- `MapCircle.getCustomPattern`
- `MapCircle.getDashPrimaryLength`
- `MapCircle.getDashSecondaryLength`

► Changes

- `MapCircle.getPatternStyle`
- `MapCircle.setCustomPattern`
- `MapCircle.setDashPrimaryLength`
- `MapCircle.setDashSecondaryLength`
- `MapCircle.setPatternStyle`
- `MapPolygon.PatternStyle`
- `MapPolygon.getCapStyle`
- `MapPolygon.getCustomPattern`
- `MapPolygon.getDashPrimaryLength`
- `MapPolygon.getDashSecondaryLength`
- `MapPolygon.getPatternStyle`
- `MapPolygon.isPerspectiveEnabled`
- `MapPolygon.setCapStyle`
- `MapPolygon.setCustomPattern`
- `MapPolygon.setDashPrimaryLength`
- `MapPolygon.setDashSecondaryLength`
- `MapPolygon.setPatternStyle`
- `MapPolygon.setPerspectiveEnabled`
- `MapPolyline.PatternStyle`
- `MapPolyline.getCustomPattern`
- `MapPolyline.getPatternStyle`
- `MapPolyline.isExtrusionEnabled`
- `MapPolyline.setCustomPattern`
- `MapPolyline.setExtrusionEnabled`
- `MapPolyline.setPatternStyle`
- `NavigationManager.addAlternativeRoutesListener`
- `NavigationManager.removeAlternativeRoutesListener`
- `NavigationManager.setAlternativeRoutesNumber`
- `Request.setLocale`
- `Request.getLocale`
- `Request.addCustomHeader`
- `ReverseGeocodeRequest2.ReverseGeocodeRequest2(GeoCoordinate, ReverseGeocodeMode, float)`
- `Route.getRoutingZones`
- `Route.getTtaExcludingTraffic`
- `Route.getTtaIncludingTraffic`
- `Route.getTtaUsingDownloadedTraffic`
- `RouteElement.getTravelDirection`
- `RouteOptions.excludeRoutingZones`
- `RoutingZone` class
- `StatusListener.onWifiIndoorPositioningNotAvailable`
- `StatusListenerAdapter.onWifiIndoorPositioningNotAvailable`
- `TrafficUpdater.disableAutoUpdate`
- `TrafficUpdater.isAutoUpdateEnabled`

Deprecated

- `Map.disableTrafficAutoUpdate`
- `Map.isTrafficAutoUpdateEnabled`
- `MapPolyline.isDashEnabled`
- `MapPolyline.setDashEnabled`
- `Route.getTta`
- `ReverseGeocodeRequest2(GeoCoordinate, Locale)`
- `ReverseGeocodeRequest2(GeoCoordinate, Localte, ReverseGeocodeMode, float)`

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.

- Rather than returning a route, the error code `GRAPH_DISCONNECTED` is returned if a route waypoint is inside of a routing zone that was specified as to be excluded in the route options.
 - ☰ **Note:** In a navigation re-routing where a new route cannot be found due to the current position being inside a specified routing zone, no new route is returned and no error is reported. A new route is returned as soon as the current position is no longer inside any of the specified routing zones.
- 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.
- `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

Package Description

HERE Android SDK Premium Edition v3.9 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 v3.9 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

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, see [Service Support](#) to contact us for more details .

- 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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=== Lua 5.1.3 ===

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=== LZ4 r126 ===

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=== malloc_count ===

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=== protobuf 2.6.0 ==

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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
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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=== ReLinker 1.2.2 ===

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