



HERE Android SDK

Release Notes

Premium Edition Version 3.6

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:

- HERE Indoor Radio Mapper tool is no longer included in the SDK package. It is available for download via Google Play.
- 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 3.6

- We added support for the Android emulator. For more information, see "Android Emulator Support" in the Developer's Guide.
- We added the ability to change route colors and traveled navigational route colors using the `MapRoute` class.
- We added the Electronic Horizon feature, which provides a view on the road network ahead of the vehicle and predicts the most probable path and other possible side paths.
- We added new class `GeocodeResult` to return more details on the geocoding result including match level and match quality.
- You can now choose to avoid difficult turns in a truck routing request.
- We added support for walk guidance along an indoor route or a combined indoor and outdoor route.

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 added new callback methods in <code>NavigationManagerEventListener</code> for handling insufficient map data scenarios.
2	We added the ability to suppress voice instructions for certain navigational maneuvers.
3	We added the ability to disable automatic traffic data download
4	To help manage the size of map packages, you can now use <code>MapLoader</code> to select optional map data groups, such as phonetic names, for installation.
5	We added support for defining a route waypoint by specifying a link ID and direction.
6	We removed the limit on number of waypoints in a route request. However, for performance reasons, we do not recommend having requests with more than 128 waypoints.
7	We made improvements to the detection of maneuvers and destinations during pedestrian navigation.
8	We have added the <code>pause()</code> and <code>resume()</code> in <code>MapOffScreenRenderer</code> to facilitate cases where the renderer needs to be temporarily stopped.
9	You can now specify a <code>SpeechToTextProvider</code> during NLP initialization.
10	We have made general optimizations to increase responsiveness in this release.

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 have made some overall map matching adjustments to better match the iOS version.
2	We fixed an issue where voice instructions are not announced for certain maneuvers.
3	We fixed an issue where a GeoBoundingBox on a map that has low zoom level can cause a crash.
4	We fixed an issue where rerouting is incorrectly triggered after completing a U-turn in a dead-end street when the route has waypoints in that street.
5	We fixed an issue that caused Place labels from the wrong location to appear on the map.
6	We fixed an issue where Slovak highway names are cut off.
7	We fixed an issue where house numbers that contain the dash "-" character are not recognized in an offline address search.

API Changes

Added

- `NavigationManager.isManeuverVoiceoverEnabled(Maneuver.Action)`
- `NavigationManager.setManeuverVoiceoverEnabled(Maneuver.Action, boolean)`
- `NavigationManagerEventListener.onMapDataInsufficient()`
- `NavigationManagerEventListener.onMapDataAvailable()`
- `MapOffScreenRenderer.pause`
- `MapOffScreenRenderer.resume`
- `Map.disableTrafficAutoUpdate()`
- `Map.isTrafficAutoUpdateEnabled()`
- `MapRoute.RenderType.USER_DEFINED`
- `MapRoute.getTraveledColor()`
- `MapRoute.setTraveledColor()`
- `MapLoader.selectDataGroup()`
- `MapLoader.deselectDataGroup()`
- `CombinedNavigationManager.getNavigationState()`
- `CombinedNavigationManager.getCurrentNavigationType()`
- `CombinedNavigationManager.addListener()`
- `CombinedNavigationManager.removeListener()`
- `CombinedNavigationManager.start()`
- `CombinedNavigationManager.simulate()`
- `CombinedNavigationManager.isPaused()`

- `CombinedNavigationManager.pause()`
- `CombinedNavigationManager.stop()`
- `CombinedNavigationManager.getDistanceToDestination()`
- `CombinedNavigationManager.getDistanceFromStart()`
- `CombinedNavigationManagerListener.onDestinationReached()`
- `CombinedNavigationManagerListener.onRouteUpdated()`
- `CombinedNavigationManagerListener.onIndoorSectionWillStart()`
- `CombinedNavigationManagerListener.onOutdoorSectionWillStart()`
- `CombinedNavigationManagerListener.onLinkingSectionWillStart()`
- `VenueManeuver.getGeometry()`
- `VenueManeuver.getTargetManeuver()`
- `VenueNavigationManager.getNavigationState()`
- `VenueNavigationManager.isPaused()`
- `VenueNavigationManager.pause()`
- `VenueNavigationManager.isMapTrackingEnabled()`
- `VenueNavigationManager.setMapTrackingEnabled()`
- `VenueNavigationManager.getMapTrackingTilt()`
- `VenueNavigationManager.setMapTrackingTilt()`
- `VenueNavigationManager.getMapTrackingMode()`
- `VenueNavigationManager.setMapTrackingMode()`
- `VenueNavigationManager.addListener()`
- `VenueNavigationManager.removeListener()`
- `VenueNavigationManager.start()`
- `VenueNavigationManager.stop()`
- `VenueNavigationManager.getVenueLayer()`
- `VenueNavigationManager.getCurrentManeuver()`
- `VenueNavigationManager.getNextManeuver()`
- `VenueNavigationManager.getDistanceToCurrentManeuver()`
- `VenueNavigationManager.getDistanceToNextManeuver()`
- `VenueNavigationManager.getDistanceToDestination()`
- `VenueNavigationManager.getDistanceFromStart()`
- `VenueNavigationManager.getTravelledDistance()`
- `VenueNavigationManager.getAverageSpeed()`
- `VenueNavigationManager.getReroutingTimeout()`
- `VenueNavigationManager.setReroutingTimeout()`
- `VenueNavigationManager.areBeepsEnabled()`
- `VenueNavigationManager.setBeepsEnabled()`
- `VenueNavigationManager.isVibrationEnabled()`
- `VenueNavigationManager.setVibrationEnabled()`
- `VenueNavigationManager.isManeuverZoomEnabled()`
- `VenueNavigationManager.setManeuverZoomEnabled()`
- `VenueNavigationManager.getManeuverZoomDistance()`
- `VenueNavigationManager.setManeuverZoomDistance()`
- `VenueNavigationManager.getManeuverZoomLevel()`
- `VenueNavigationManager.setManeuverZoomLevel()`
- `VenueNavigationManagerListener.onDestinationReached()`

► Changes

- VenueNavigationManagerListener.onCurrentManeuverChanged()
- VenueNavigationManagerListener.onPositionLost()
- VenueNavigationManagerListener.onPositionRestored()
- VenueNavigationManagerListener.onRouteSectionUpdated()
- VenueNavigationManagerListener.onRerouteBegin()
- VenueNavigationManagerListener.onRerouteEnd()
- VenueSimulatedLocationSource.getSimulationState()
- VenueSimulatedLocationSource.start()
- VenueSimulatedLocationSource.isPaused()
- VenueSimulatedLocationSource.pause()
- VenueSimulatedLocationSource.stop()
- VenueSimulatedLocationSource.getGpsStatus()
- VenueSimulatedLocationSource.getNetworkStatus()
- VenueSimulatedLocationSource.getIndoorStatus()
- VenueSimulatedLocationSource.getLastKnownLocation()
- VenueSimulatedLocationSource.getUpdatesInterval()
- VenueSimulatedLocationSource.setUpdatesInterval()
- Intention.ERROR
- Nlp OnRouteResultsAddedListener
- Nlp OnSendSMSListener
- SpeechToTextProvider
- com.here.android.mpa.electronic_horizon Package

Deprecated

- MapMarker.getInfoBubbleHashCode()
- MapMarker.isInfoBubbleVisible()
- MapRoute.RenderType.TRAVELED

Changed

- Nlp.init(Context, MapFragment, CollectionProvider, SpeechToTextProvider, OnInitializationListener) - Added support for different speech-to-text providers.
- Nlp.init(Context, Map, MapGesture, CollectionProvider, SpeechToTextProvider, OnInitializationListener) - Added support for different speech-to-text providers.

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.

► Changes

- 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 v3.6 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 v3.6 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 devices or emulators. It is recommended that testing is performed on ARM-based devices.

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```

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Mesa 3-D graphics library
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=== malloc_count ===

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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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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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