

# HERE Android SDK

Release Notes

Premium Edition Version 3.2

The logo consists of the word "here" in a bold, blue, lowercase sans-serif font, rotated approximately 45 degrees clockwise.

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# Important Information

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## Notices

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**Topics:**

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

This section contains document notices.

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## Document Information

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# Chapter 1

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## Overview

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### Topics:

- [Highlights](#)

The HERE Android SDK offers APIs to enable developers to access HERE location-based assets and bring a rich and immersive location experience to their applications with beautiful and accurate maps, a global database of Places and a world-class routing capability. The powerful client-side HERE APIs for Android include a sophisticated engine for rendering map data and route calculation. In addition to downloading map data dynamically as needed, it also supports offline maps through use of previously cached map data or previously downloaded map packages.

The scope of this document is to provide the release notes of the HERE Android SDK, with respect to a particular release version. It also includes the issues reported, open and solved within this release.

## Highlights

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

- For a list of new features in this release, see [New Features](#) on page 9
- We have deprecated `RouteManager` and `RouteOptions.TransportMode.PUBLIC_TRANSPORT` in this release. Car and Pedestrian routing is now handled by `CoreRouter`. Transit routing is now handled by a set of Urban Mobility (UM) routing classes, with the main entry point being the `UMRouter` class. For more details, please see the Routing section in the Developer's Guide.

# Chapter 2

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## Changes

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### Topics:

- [New Features](#)
- [Functional and Behavioral ...](#)
- [API Changes](#)
- [Known Issues](#)

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

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The following list contains new features in the current release of the HERE Android SDK:

### HERE SDK 3.2

- Where a device does not have a GPS source (such as a tablet), it is now possible for Android developers to feed in position data from an external source.
- The SDK now provides as a beta feature the option to input sensor data from a GNSS Receiver Module supporting Dead Reckoning (DR) for improved map matching accuracy.
- Extended the geopolitical view functionality to Places and Geocoding services. The HERE SDK now automatically returns the expected search results based on the inferred device locale.
- Developers may now create custom map schemes at runtime by modifying properties such as the color of map objects.
- A new version of the Custom Location Extension has been introduced.
- Public Transit routing is deprecated and replaced by Urban Mobility routing. Urban Mobility routing supports a superset of the features supported by PT routing in previous SDK releases.
- New APIs are provided to allow developers query the Public Transit coverage available at a location.
- The Urban Mobility departures board feature has been enhanced to display later/earlier departures. Also, multi-departure board is supported to address cases where in one location there may be multiple stations such as train, tram, and bus.
- Added support for online and offline HERE Positioning using cellid and wifi.
- Added support for offline HERE Positioning using Bluetooth (BTLE) and Wifi as a beta feature.
- Added additional zoom levels (accessible through touch gestures) for venues, where content is available.
- When drawing a polyline or polygon inside a venue, the altitude may also be specified to ensure it is positioned correctly in 3D space.
- Added new indoor routing options to prefer or avoid stairs, elevators, and ramps.
- Added a new route calculation option for "Balanced" route (in addition to existing Fastest and Shortest).
- Places search now includes a new autosuggest request which takes as input the characters typed by a user and returns Place results and recommendations for other search requests.
- Added a new API to retrieve the map package ID covering a specified location.

## Functional and Behavioral Changes

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

Table 1: Functional and Behavioral Changes

#	Description
1	Calling <code>Map.setTrafficInfoVisible(true)</code> now requires you to also set the map to a traffic-enabled map scheme. This was previously handled automatically.
2	Routing has been significantly refactored to support more complex types of route calculations. For more details, see the Developer's Guide.
3	<code>com.google.android.tts</code> will no longer start unless you explicitly call <code>NavigationManager.setVoiceSkin(VoiceSkin)</code> to select a text-to-speech voice skin.
4	We fixed an issue where a traffic object cannot be displayed on multiple <code>Map</code> instances.
5	We fixed an issue where <code>MapTrafficLayer</code> 's state is not taken into account when <code>Map.setTrafficInfoVisible()</code> is called.
6	We fixed an issue where map downloads may become unresponsive on Android 6.0 or above.
7	We fixed a navigation performance issue on Nexus 6.
8	We fixed an issue where <code>MapLoader</code> downloads interfere with other components.
9	We fixed an issue where the color of the map route cannot be changed.
10	We fixed an issue where the word "kilometers" is not announced during voice guidance.
11	We fixed an issue where zooming out during navigation caused the navigation arrows to disappear.
12	We fixed an issue with <code>MapEngine</code> where an old map version continues to be used even after a map data update.
13	We fixed an issue where a crash may occur when an Android view with unestablished dimensions is added as a <code>MapOverlay</code> .
14	The maneuver angle reported for roundabouts now correctly reports the angle between the road entering and the road exiting the roundabout in a clockwise direction.

For added and improved functionality in previous releases, see the relevant chapters in these documents: <http://developer.here.com/documentation/versions#android-hybrid-plus>

## API Changes

### Added

- `LaneInformation` and `LaneInformationListener`.
- `Version.getSdkVersion()`

## ► Changes

- LocationDataSource **and** LocationDataSourceAutomotive
- GeoPosition.getBuildingId(), GeoPosition.getBuildingName(), GeoPosition.getFloorId(), GeoPosition.getPositionSource(), **and** GeoPosition.getPositionTechnology()
- MapEngine.isInitialized()
- TransitType.TRAIN\_INTERREGIONAL\_AND\_FAST **and** TransitType.ORDERED\_SERVICES\_OR\_TAXI
- CLE2Geometry, CLE2MultiPointGeometry, CLE2PointGeometry, CLE2ProximityRequest, CLE2Request, **and** CLE2Result **classes**
- LaneInformation
- NavigationManager#LaneInformationListener
- TrafficNotificationInfo.getAffectedArea()
- TrafficNotificationInfo.getSeverity()
- TrafficNotificationInfo.getTravelTime()
- TrafficNotificationInfo.getTravelTimeWithTraffic()
- NavigationManager#RoadView.setAnimationEnabled(boolean)
- NavigationManager#RoadView.getAnimationEnabled()
- CustomizableScheme
- CustomizableScheme.ErrorCode
- CustomizableVariables
- SchemeColorProperty
- SchemeFloatProperty
- SchemeIntegerProperty
- ZoomRange
- Map.createCustomizableScheme
- Map.removeCustomizableScheme(String)
- Map.getCustomizableScheme(String)
- Map.setMapScheme(CustomizableScheme)
- MapRoute#RenderType.TRAVELED
- MapLoader.getMapPackageAtCoordinate(GeoCoordinate coordinate)
- MapLoader.MapPackageAtCoordinateListener
- MapLoader.addMapPackageAtCoordinateListener(MapLoader.MapPackageAtCoordinateListener)
- MapLoader.removeMapPackageAtCoordinateListener(MapLoader.MapPackageAtCoordinateListener)
- RouteOptions.BALANCED
- DynamicPenalty.addBannedArea(GeoPolygon)
- DynamicPenalty.removeBannedArea(GeoPolygon)
- RoutingError
- Router
- CoreRouter

► Changes

- UMRouter
- UMCalculateResult
- UMRouteOptions
- UMRouteResult
- TextAutoSuggestionRequest
- AutoSuggest
- AutoSuggestPlace
- AutoSuggestSearch
- AccessPoint
- Alert
- Alert.setTransportTypes
- Alert.setRequestRealTimeInfoEnabled
- Alert.setStrictResultEnabled
- DepartureBoard.getOperatorDisclamers
- DepartureBoard.setTransportTypes
- DepartureBoard.setMaximumResults
- DepartureBoard.setRadius(int radius)
- DepartureBoard.setRequestStationDetailsEnabled
- DepartureBoard.getTransportType
- City
- CityCoverageRequest
- CityCoverageResult
- CitySearchRequest
- CitySearchResult
- CoverageType
- ExploredCoverage
- ErrorCode
- IntermediateStop
- LinkType.BOOKING
- Link.getUrlText
- Location
- MissingCoverage
- MultiBoardRequest
- MultiBoardResult
- NearbyCoverageRequest
- NearbyCoverageResult
- Provider
- RequestManager.createCityCoverageRequest

## ► Changes

- `RequestManager.createCitySearchRequest`
- `RequestManager.createMultiBoardRequest`
- `RequestManager.createNearbyCoverageRequest`
- `RequestManager.createDepartureBoardRequest (GeoCoordinate, String, ResponseListener)`
- `RequestManager.createDepartureBoardRequest (GeoCoordinate, String, ResponseListener)`
- `RequestManager.createStationSearchRequest (GeoCoordinate, String, ResponseListener)`
- `RequestManager.createStationSearchRequest (Set, ResponseListener)`
- `RequestManager.ResponseListener`
- `RouteSection`
- `StationWithDepartureBoard`
- `TransportType`
- `Ticket`
- `TicketCollection`
- `UMRoute`

**Deprecated**

- `LaneInfo` and `LaneInfoListener`.
- `Version.SDK_API_INT` (**use** `getSDKVersion()` **instead**)
- `NavigationManager#RoadView.setUseEstimatedPosition (boolean useEstimatedPosition)`
- `NavigationManager#RoadView.getUseEstimatedPosition`
- `LaneInfo`
- `EnhancedRoadLane`
- `NavigationManager#LaneInfoListener`
- `TrafficNotificationInfo.getEvent()`
- `NavigationManager#RoadView.setUseAnimation (boolean)`
- `NavigationManager#RoadView.getUseAnimation()`
- `MapRoute#RenderType.CUSTOM`
- `RouteOptions.TransportMode#PUBLIC_TRANSPORT`
- `RouteOptions.Type.ECONOMIC`
- `RoutePlan.addWaypoint (GeoCoordinate point)`
- `RoutePlan.insertWaypoint (GeoCoordinate point, int index)`
- `RoutePlan.getWaypointAt (int index)`
- `DynamicPenalty.addAreaPenalty (GeoPolygon, int)`
- `DynamicPenalty.removeAreaPenalty (GeoPolygon)`

► Changes

- `RouteManager`
- `RouteManager#Error`
- `RouteManager#Listener`
- `RouteManager.calculateRoute`
- `RouteManager.cancel`
- `RouteManager.isBusy`
- `AlternativeDeparture.getTimeAsString`
- `DepartureBoardRequest.getStationCoordinate`
- `DepartureBoardRequest.getStationId`
- `DepartureBoardRequest.getTime`
- `DepartureBoardRequest.isRealTimeInfoReturned`
- `DepartureBoardRequest.isStrict`
- `DepartureBoardRequest.getMaximumResults`
- `DepartureBoardRequest.getClient`
- `DepartureBoardRequest.getHost`
- `DepartureBoardRequest.getLanguage`
- `DepartureBoardRequest.getTimeAsString`
- `DepartureBoardRequest.getTransitTypes`
- `DepartureBoardRequest.setLanguage`
- `DepartureBoardRequest.setTransitTypes`
- `DepartureBoardRequest.setRealTimeInfoReturned`
- `DepartureBoardRequest.setStrict`
- `StationSearchRequest.getRadius`
- `StationSearchRequest.getStationCoordinate`
- `StationSearchRequest.getStationIds`
- `StationSearchRequest.getStationName`
- `StationSearchRequest.getStationNameMatchingMethod`
- `StationSearchRequest.isStationDetailsReturned`
- `StationSearchRequest.getMaximumResults`
- `StationSearchRequest.getClient`
- `StationSearchRequest.getHost`
- `StationSearchRequest.getLanguage`
- `StationSearchRequest.getTransitTypes`
- `StationSearchRequest.setLanguage`
- `StationSearchRequest.setTransitTypes`
- `StationSearchRequest.setRadius(float radius)`
- `StationSearchRequest.setStationDetailsReturned`
- `LineCategory.getTransitType`

## ► Changes

- `LineStyle.LineNameIconShape`
- `LineStyle.getIconShape`
- `RealTimeInfo.getArrivalTimeAsString`
- `RealTimeInfo.getDepartureTimeAsString`
- `RequestManager.createDepartureBoardRequest(GeoCoordinate, String, ResponseListener)`
- `RequestManager.createStationSearchRequest(GeoCoordinate, String, ResponseListener)`
- `RequestManager.createStationSearchRequest(String[], ResponseListener)`
- `ResponseListener`

**Changed**

- `onCompleted(T, ErrorCode)` callback in `com.here.android.mpa.search.ResultListener` now returns `ErrorCode.NOT_FOUND` if there are no search results.
- `NavigationManager.setMapUpdateMode(MapUpdateMode mode)` - The default `MapUpdateMode` is now `NONE` (was `POSITION`).
- `NavigationManager#SafetySpotListener` - Requires the proper license permission, otherwise no callbacks will be reported.
- `Map.setMapScheme(String scheme)` - Modified to set customize scheme as well
- `Map.getMapSchemes()` - Modified to get customize scheme as well
- `MapPolygon(GeoPolygon polygon)` constructor - `IllegalArgumentException` will now be thrown if vertices in the `GeoPolygon` are at different altitudes.
- `MapTrafficLayer.setEnabled(RenderLayer layer, boolean enable)` and `MapTrafficLayer.isEnabled(RenderLayer layer)` - By default, all `RenderLayers` are now enabled (i.e. `FLOW`, `INCIDENT` and `ONROUTE`). Previously only `FLOW` and `INCIDENT` were on by default.
- `Map.setTrafficInfoVisible` - Traffic can only be displayed on one Map at a time. It is recommended that you turn off traffic display on other Maps before enabling traffic display on a new Map otherwise the results may be unpredictable. If multiple Maps are shown at the same time with `setTrafficInfoVisible true`, only one will display traffic.
- `MapRoute.setRenderType()` - This method must now be called after `MapRoute` is added to a Map.
- `Map.setSafetySpotVisible` - Throws `AccessControlException` if Advanced Guidance permission is missing.
- `Maneuver.getAngle()` - For some roundabouts, this angle is an approximation from the entry to the exit point of the roundabout, which may be used for customization of the roundabout icon.
- `RouteOptions.TimeType.ARRIVAL` - Now it is supported, but only for `TransportMode.URBAN_MOBILITY`

## 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

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

- Devices using the MediaTek MT65XX chipset family have a known GPU shader error where rendering extruded buildings causes random color flickers. Please turn off extruded building rendering on these devices. For more information, see `com.here.android.mpa.mapping.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`. Please use the new Urban Mobility feature for public transit routing (see `UMRouter`).



# Chapter 3

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## Package Information

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**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

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<b>Native APIs</b>	Enabling native applications to leverage HERE functionality
<b>Hybrid Engine</b>	Engine responsible for rendering vector map data
<b>Documentation</b>	API Reference Documentation and Developer Guide
<b>Sample Applications / Code</b>	One or more sample applications

## Package Description


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HERE Android SDK Premium Edition v3.2 Release Notes.pdf	This document
Here-sdk.zip	HERE Android SDK
HERE-sdk.zip/libs	Native and Java libraries
HERE-sdk.zip/libs/docs	API Reference documentation
HERE-sdk.zip/tutorial	Sample applications to be used with the Quick Start section in the Developer's Guide
HERE-sdk.zip/user-guide/HERE Android SDK Premium Edition v3.2 Developer's Guide.pdf	HERE Android SDK Developer's Guide

### Evaluation Releases

Evaluation releases of the HERE Android SDK also include the following:

HERE-sdk.zip/misc/	Contains a sample Voice Skin file to be used with the Voice Navigation feature
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-  **Note:** Evaluation releases can only be used for a limited time. If the evaluation expiry date is within the next 30 days, a warning message is displayed on the map. For more information about the SDK evaluation period, please contact your HERE representative.

## Getting Started

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Please refer to the documentation under the `HERE-sdk.zip/user-guide/` folder for details on how to start using the HERE Android SDK.

# Appendix

# A

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## Appendix

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**Topics:**

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

This appendix contains topics other than immediately regarding changes and issues in the release such as release overview, technical specifications, dependencies, 3rd party copyright notices, release quality and related documents.

## System Requirements

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- Android 4.0.3 "Ice Cream Sandwich" (API Level 15) or higher as the application Minimum API Level (`android:minSdkVersion`).
  - 60MB of memory (RAM) be made available for foreground applications using the HERE SDK
  - For storage of application binaries, an additional ~20MB for the HERE SDK libraries if bundled with the application should be taken into account
  - Mass storage is required for persistent storage of map data. At a minimum, 50MB of free space is required to be available for map data
- 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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=== ICU 1.8.1+ ===
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=== rg_etc 1.04 ===
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=== Snappy 1.1.2 ===
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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 ==
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```
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 (deflate format) and rfc1952 (gzip format).
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MiniZip -
Copyright (c) 1998-2010 Gilles Vollant - version 1.1 64 bits from Mathias Svensson
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Credits
```

```
Gilles Vollant      - Original MiniZip author
Even Rouault        - ZIP64 unzip Support
Daniel Borca        - BZip Compression method support in unzip
Mathias Svensson    - ZIP64 zip support
Mathias Svensson    - BZip Compression method support in zip
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=== GSON 2.2.4 ===

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