



HERE Android SDK

Release Notes

Premium Edition Version 3.4

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.....	10
Resolved Issues.....	10
API Changes.....	11
Known Issues.....	15
Limitations and Workarounds.....	15
Chapter 3: Package Information	16
Release Content.....	17
Package Description.....	17
Getting Started.....	17
Appendix : Other Information	18
System Requirements.....	19
Copyright Information.....	19

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:

- 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 3.4

- Applications can now dynamically initialize the HERE Android SDK with a license key rather than hard coding the license key in the application's Android manifest file.
- Added the ability to style the outline of a polyline object.
- Added a new callback for cases when an active guidance session passes a waypoint.
- Added the ability to be notified of violated routing options when a reroute is triggered by a deviation from the current route.
- Added the ability to automatically update partially installed map packages by updating the map version.
- Add support for restricting the results returned by Autosuggest. By default, autosuggest returns address, place, category, chain, and query results. With this feature, the application can request that only a subset of these are returned. See the Places API article, [Restricting Suggestion Types](#), for more details.
- Autosuggest is no longer considered a beta feature.
- Added support to allow setting of perspective rendering of `MapPolyline` towards the horizon, when the map is tilted.
- Updated the included HERE Positioning (IPS) toolkit to a new version.
- Updated the map service and the map disk cache. See [Functional and Behavioral Changes](#) on page 10 for more details.
- For levels and outer areas in 3D Venues, you can now find all nearby spaces in a radius around a given position. The returned list of spaces contains all spaces that fall within or intersect the radius.
- When enabling open venue mode, venues that are in the viewport are now opened automatically, rather than requiring the user to click on the venue to open it.
- Added the ability for venue maneuvers to provide the names of natural guidance POIs.
- Added reverse venue space lookup. You can now get area at a given position, the area returned is either an outer area or a space.
- Added the ability to retrieve axis-aligned bounding boxes for the venue route and outdoor route sections.
- Added CLE2 upload support. You can now push your changes and new geometries directly from the device to CLE2
- Integrated Toll Cost Extensions. You can now get the costs of your (truck) route with details about toll systems split by countries if needed
- Optimized truck routing. We added support for truck restrictions that do not apply to deliveries. We also added support for adjacent no-through zones.
- Extended PDE to support layers that are static, such as layers that do not require any bounding box or link ids to be fetched
- Added support for neighbor cell positioning in HERE Positioning. We now support also using non-serving cells to improve positioning accuracy.
- Added support for radiomap download. We now support pre-caching radiomaps to the device.
- Added support for Japanese voice navigation. You can enable this feature by using the downloadable Japanese text-to-speech voice.

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 have updated the map service and the map disk cache in this release. If you are upgrading from an older version of the HERE SDK, you need to update <code>AndroidManifest.xml</code> . Also, the HERE SDK disk cache is no longer compatible with older versions. For more information, see "Embedding the Map Service" in the HERE Android SDK Developer's Guide.
2	The <code>android.permission.ACCESS_FINE_LOCATION</code> Android permission is no longer required to initialize or use the HERE Android SDK. It is only required for apps that use <code>PositioningManager</code> , <code>NavigationManager</code> , <code>PositionSimulator</code> , or <code>LiveSight</code> .
3	Aligned the behavior of the search connectivity modes (<code>CoreRouter.Connectivity</code>) and routing connectivity modes (<code>Request.Connectivity</code>) to be more consistent. <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 <code>MapEngine</code> connectivity setting. If the device is offline while <code>MapEngine</code> 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 <code>MapEngine</code> connectivity setting. If you launch a request using the <code>OFFLINE</code> connectivity mode, an offline request is performed, regardless of the <code>MapEngine</code> connectivity setting. <p>In all cases, if the request fails, no fallback action is automatically performed.</p>
4	The minimum supported Android version is now API Level 16. While apps may still work with API Level 15, please note that we no longer provide official support for it. Compatibility with API Level 15 will be removed in a future release.
5	We made general stability and robustness improvements 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

#	Issue	Solution
1	Creating a <code>MapMarker</code> with an invalid hue causes an unexpected behavior.	We have added a boundary check to ensure an invalid hue is not allowed when initializing map marker.
2	Under certain circumstances, users of Android 7.0 devices are unable to set the map language.	We have fixed a bug where the device's default language preference on Android 7.0 is not respected by the SDK.

#	Issue	Solution
3	Flat or hilly route route types are not shown on bike routes.	We have adjusted the way online calculations are performed in the DEFAULT connectivity mode. As a result, the elevation information is now returned.
4	<code>MapLabelMarker.setTransparency(float)</code> does not return an out of range exception as expected.	We added a range check to this method.
5	<code>NavigationManager.getEta()</code> returns an unexpected date.	We have updated API reference with more information on how this API behaves.
6	Incorrect turn information is provided for a turbo roundabout.	We improved the instruction accuracy for turbo roundabouts.
7	Inaccurate search results for Taiwan can appear when users use Chinese addresses.	We improved the search accuracy of Chinese addresses in Taiwan.
8	<code>MapOverlay</code> objects are not placed in the correct location when the map is moved.	We have fixed this issue in this release.
9	When voice is disabled, safety spot alerts play in a different tone.	We have fixed this issue in this release.
10	HERE SDK uses English (US) instructions for navigation, even when the text-to-speech setting is English (UK).	We have fixed this issue in this release.
11	The app can freeze or crash when the HERE SDK calls <code>Route.getTta()</code> .	We have fixed this issue, which was related to how concurrency was handled in the Navigation Manager.
12	In some scenarios, the navigation map auto zoom does not work properly when speed changes.	We have fixed this issue in this release.

API Changes

Added

- `OnEngineInitListener.Error.WRONG_SERVICE_INTENT_NAME`
- `LocationDataSourceHERE.getInstance()`
- `LocationDataSourceHERE.getInstance(StatusListener)`
- `LocationDataSourceHERE.setIndoorPositioningMode(IndoorPositioningMode)`
- `LocationDataSourceHERE.getIndoorPositioningMode()`
- `LocationDataSourceHERE.IndoorPositioningModeSetResult`
- `LocationDataSourceHERE.IndoorPositioningMode`
- `CLE2DataManager`
- `CLE2DataManager.CLE2DownloadListener`
- `CLE2Request.CLE2Error.CLE2ErrorCode`
- `CLE2Request.CLE2ConnectivityMode`
- `CLE2Request setCachingEnabled`
- `CLE2Request setConnectivityMode`
- `CLE2Request getConnectivityMode`
- `CLE2Request.CLE2Error.CLE2Error(CLE2ErrorCode, String)`

► Changes

- `CLE2Request.CLE2Error.getErrorMessage()`
- `CLE2Request.CLE2Error.getErrorCode()`
- `CLE2Request.CLE2Error.CANCELLED`
- `CLE2Request.CLE2Error.UNKNOWN`
- `CLE2Result.getConnectivityModeUsed()`
- `NavigationManager.getTtsOutputFormat()`
- `NavigationManager.setTtsOutputFormat()`
- `MapFragment.getPositionIndicator()`
- `UMRoute.getDeparture()`
- `UMRoute.getArrival()`
- `UMRoute.getTariffs()`
- `UMCalculateResult.ViolatedOption.ESTIMATED_ROUTING`
- `RoutingError.NETWORK_COMMUNICATION`
- `CoreRouter.setConnectivity`
- `CoreRouter.getConnectivity`
- `Route.SerializerError`
- `Route.SerializationResult`
- `Route.DeserializationResult`
- `Route.serialize(Route)`
- `Route.deserialize(byte[])`
- `Route.getRouteGeometryWithElevationData()`
- `Request<T> enum Connectivity`
- `Request<T> setConnectivity`
- `Request<T> Connectivity`
- `StationSearchResult.getTransports()`
- `Place`
- `Station.isDepartureBoardAvailable()`
- `Transport`
- `Operator.getLinks()`
- `DepartureBoard.getTransports()`
- `Departure.getPlace()`
- `Departure.getTransport()`
- `Departure.getAccessPoint()`
- `AlternativeDeparture.getTransport()`
- `MultiBoardResult.getTransports()`
- `Alert.getSource()`
- `Alert.getTransports()`
- `RouteSection.getId()`
- `RouteSection.getDeparture()`
- `RouteSection.getArrival()`
- `RouteSection.getTariffs()`
- `Tariff`
- `Fare`
- `Arrival`
- `MissingCoverage.getTransports()`
- `ExploredCoverage.getTransports()`

► Changes

- `ExploredCoverage.getTransportsCount()`
- `City.getTransportsCount()`
- `NearbyCoverageResult.getTransportsCount()`
- `RequestManager.createMultiBoardRequest(stationIds, listener)`
- `RequestManager.createBrandingLogosRequest(listener)`
- `TransportType`
- `BrandingLogosRequest`
- `BrandingLogosResult`
- `CombinedRoute.getStart()`
- `CombinedRoute.getEnd()`
- `CombinedRoute.getWaypoints()`
- `CombinedRoute.conformsConnectorOptions()`
- `CombinedRoute.conformsModeOptions()`
- `Content.getEmail()`
- `Level.equals(object)`
- `Level.hashCode()`
- `RoutingController.calculateCombinedRoute(points, options)`
- `SpatialObject.equals(object)`
- `SpatialObject.hashCode()`
- `Venue.equals(object)`
- `Venue.hashCode()`
- `VenueInfo.getIsAlternativeSource()`
- `VenueLayerAdapter`
- `VenueMapFragment.getPositionIndicator()`
- `VenueMapView`
- `VenueService.VenueLoadStatus`
- `VenueService.VenueLoadListener`
- `VenueService.VenueServiceStopListener`
- `VenueService.VenueServiceClearCacheListener`
- `VenueService.InitStatus.ONLINE_FAILED`
- `VenueService.InitStatus.LOCKED`
- `VenueService.createAdditionalService(context)`
- `VenueService.addVenueLoadListener(listener)`
- `VenueService.removeVenueLoadListener(listener)`
- `VenueService.isCombinedContent()`
- `VenueService.isPrivateContent()`
- `VenueService.isTestEnv()`
- `VenueService.setIsCombinedContent(isCombinedContent)`
- `VenueService.stopAsync(stopListener)`
- `VenueService.stopAndClearCache(listener)`
- `StatusListener.onOfflineModeChanged(boolean)`
- `StatusListener.onAirplaneModeEnabled()`
- `StatusListener.onWifiScansDisabled()`
- `StatusListener.onBluetoothDisabled()`
- `StatusListener.onCellDisabled()`
- `StatusListener.onGnssLocationDisabled()`

► Changes

- `StatusListener.onNetworkLocationDisabled()`
- `StatusListener.onServiceError(ServiceError)`
- `StatusListener.onPositioningError(PositioningError)`
- `StatusListener.ServiceError.NONE`
- `StatusListener.ServiceError.SERVICE_INITIALIZATION_FAILED`
- `StatusListener.ServiceError.SERVICE_NOT_FOUND`
- `StatusListener.ServiceError.MISSING_PERMISSIONS`
- `StatusListener.PositioningError.NONE`
- `StatusListener.PositioningError.POSITION_NOT_FOUND`
- `StatusListenerAdapter`

Deprecated

- `com.here.android.mpa.customlocation` package
 - ◻ `AreaGeometryRequest`
 - ◻ `AreaRequest`
 - ◻ `AttributeRequest`
 - ◻ `CLENetworkTask`
 - ◻ `CLEResponse`
 - ◻ `CorridorRequest`
 - ◻ `CustomAttribute`
 - ◻ `CustomLocationExtensions`
 - ◻ `CustomQueryBuilder`
 - ◻ `GeometryNetworkTask`
 - ◻ `GeometryResponse`
 - ◻ `IdGeometryRequest`
 - ◻ `LocationNetworkTask`
 - ◻ `LocationResponse`
 - ◻ `OnCLEResponseReceived`
 - ◻ `OperationType`
 - ◻ `PointGeometryRequest`
 - ◻ `ProximityRequest`
 - ◻ `QueryBuilder`
 - ◻ `Request`
 - ◻ `Result`
- `CLE2PointGeometry.setPoint()`
- `CLE2MultiPointGeometry.setPoint()`
- `RouteOptions.TRACK`
- `RoutingError.REQUEST_TIMEOUT`
- `VenueServiceListener.onGetVenueCompleted(venue)`
- `RouteOptions.TRACK`
- `RoutingError.REQUEST_TIMEOUT`
- `VenueServiceListener.onGetVenueCompleted(venue)`

Changed

- `MultiBoardRequest.setTransportTypes()` - Now takes `EnumSet` instead of `List`

► Changes

- `DepartureBoardRequest.setTransportTypes()` - Now takes `EnumSet` instead of `List`
- `Station` - Now extends `Place`

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.

- 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 Applications / Code	One or more sample applications

Package Description

HERE Android SDK Premium Edition v3.4 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 v3.4 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-4.4.apk	HERE Indoor Radio Mapper Android app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Positioning v3.0 Installation Guide.pdf	Instructions on how to set up an Indoor Positioning environment
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.4 Release Notes.pdf	Release Notes about the Indoor Radio Mapper app
HERE-sdk.zip/Indoor-Positioning-Solution/docs/Indoor Radio Mapper v4.4 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 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

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
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=== Lua 5.1.3 ===

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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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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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