HERE SDK for Android

Release Notes

Online Version 2.1.1

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Overview

The HERE SDK for Android 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 SDK for Android, with respect to a particular release version. It also includes the issues reported, open and solved within this release.
Target Audience

This document is targeted at the developers who are already familiar with Android app development. Readers should have some experience using Eclipse and Java.
# Release Content

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<tr>
<td>Native APIs</td>
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<tr>
<td>Hybrid Engine</td>
<td>Engine responsible for rendering vector map data</td>
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<tr>
<td>Documentation</td>
<td>API Reference Documentation and Developer Guide</td>
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<td>Sample Applications / Code</td>
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# Package Description

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<tr>
<td>HERE-sdk.zip/tutorial</td>
<td>Sample applications to be used with the Quick Start section in the Developer's Guide</td>
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Features Overview

Mapping:

- Dynamically download vector maps for more than 190 countries in over 50 languages
- Map styles: normal street map, satellite map, transit map, and more
- Textured 3D landmarks
- Touch gestures (including pan, flick, pinch zoom, rotate, and tilt)
- Overlay objects on the map such as polylines, polygons, icons, and routes
- Overlay 3D map objects
- Overlay custom raster tiles on the map (for example, to display heat maps)
- Ability to render raster tiles and map objects interleaved within different map layers
- 3D Extruded Buildings
- 3D Landmarks
- Transit object interaction

Search:

- Search through a broad set of geographical content, including 25 million streets, 200 million address points, and over 60 million categorized places across the globe
- Search for a specific place or explore by categories
- Get rich details for a Point of Interest (including images, ratings, reviews, and editorials)
- Perform Geocoding and Reverse Geocoding lookups

Directions:

- Get driving or pedestrian directions
- Specify preferred route type (fastest/shortest) and attributes to avoid (toll roads, motorways, parks, and more)
- Alternate routes
Getting Started

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

HERE SDK 2.1.1

• We added support for multiple instances of RouteManager
• For Evaluation Releases: We added a map warning message that is shown when the expiry date is within the next 30 days

HERE SDK 2.1

• Additional map schemes are now available
• We added the ability to set a secondary language for certain Map Labels

HERE SDK 2.0.2

HERE SDK 2.0.1

• We optimized the size of the Online package. It is now 10 MB instead of 30 MB.
• We introduced the new map design in this release. (For more details, see HERE Three Sixty)
• We have enabled the ability to remove some fonts from the SDK (For more information, see the Size Management section in the Developer’s Guide)

HERE SDK 2.0

• We added Globe as the new default map projection mode
Changes in HERE SDK v2.1.1

API Changes

com.here.android.mpa.mapping

- Deprecated MapRenderListener and replaced it with OnMapRenderListener. Replaced all methods to add and remove MapRenderListener in MapFragment, MapView and MapOffscreenRenderer, with methods to add and remove OnMapRenderListener.

com.here.android.mpa.odml

- MapPackage
  - Deprecated boolean isInstalled() and boolean isPartialInstalled()
  - Replaced the deprecated methods with InstallationState
    getInstallationState()

com.here.android.mpa.routing

- RouteManager
  - Deprecated the getInstance() method and replaced it with a public constructor.

com.here.android.mpa.streetlevel

- Deprecated the StreetLevelCompatibilityFragment class

Fixed Issues

- Improved map panning performance
- Addressed performance issues on Nexus 6 devices
- Previously loaded map is now visible in the downloaded maps list after application upgrade
- Fixed an invalid configuration for devices with less than 250 pixels-per-inch
- Updated the HERE logo on the map canvas
- Fixed an issue with anti-aliasing on Android 5.0 devices
Upgrading from HERE SDK v1.x to v2.0

Version 2.0 of the HERE SDK for Android introduces a number of significant changes. Developers upgrading from version 1.x to version 2.0.x should be aware of the following.

Map Service

Map Service is an Android service that facilitates the use of a shared disk cache among applications that use the HERE SDK. This service must be present on a user's device before the HERE APIs are used. For more information, please consult the Developer's Guide.

API Changes

- The following package names have changed:

<table>
<thead>
<tr>
<th>Package Name in SDK 1.x</th>
<th>Package Name since SDK 2.0</th>
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- Listener classes have been renamed and moved into the classes that register the listener. For example, com.here.android.mapping.MapGestureListener is now com.here.android.mapping.MapGesture.Listener.

- The MapFactory class has been removed. Objects that were previously instantiated from this class can now be constructed directly using the new operator. For example, calls to MapFactory.createGeocoordinate() should change to new GeoCoordinate().

Map Data

For HERE SDK release 2.0, the map database has been re-designed and is not backwards compatible with previous SDK releases. In particular, any previously downloaded map data will not carry over to the 2.0 release. Users must re-download all data again by panning the map to the desired geographical areas.

If a user has only one application using HERE maps on their device, we recommend that the application notify the user that they can save some storage space by deleting the /sdcard/.here-maps/diskcache/BundleStore folder. This can be done programatically by the application as part of the application upgrade process to SDK 2.0.
System Requirements

- Android Ice Cream Sandwich (Android 4.0/4.0.4, API Level 14) 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
### Known Issues

#### LiveSight

- The default camera size, 640x480, does not work properly on some devices. For example, the minimum supported camera size on the Samsung Galaxy S5 is 800x480.
- There are known performance issues when running LiveSight while displaying a MapRasterTileSource on the Map. This also means that using HERE SDK features that leverage MapRasterTileSource in conjunction with LiveSight will also have a negative performance impact. These features include Venue Maps and Street Level Coverage.
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hwcryptohook.h
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 * ModExp / RSA (with/without KM) plugin API
 *
 * The application will load a dynamic library which
 * exports entrypoint(s) defined in this file.
 *
 * This set ofentrypoints provides only a multithreaded,
 * synchronous-within-each-thread, facility.
 *
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 * zlib: 1.2.3
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