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### Document Information

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Overview

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.
Target Audience

This document is targeted at the developers who are already familiar with Android app development. Readers should have some experience with the Java programming language and the Android Studio development environment.
Release Content

- **Native APIs**: Enabling native applications to leverage HERE functionality
- **Hybrid Engine**: Engine responsible for rendering vector map data
- **Documentation**: API Reference Documentation and Developer Guide
- **Sample Applications / Code**: One or more sample applications
## Package Description

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<tr>
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<td>This document</td>
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<tr>
<td>Here-sdk.zip</td>
<td>HERE Android SDK</td>
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<td>HERE-sdk.zip/apk/mapsdemo-ext-release.apk</td>
<td>Reference maps application using the HERE Android SDK</td>
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<tr>
<td>HERE-sdk.zip/libs</td>
<td>Native and Java libraries</td>
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<td>HERE-sdk.zip/libs/docs</td>
<td>API Reference documentation</td>
</tr>
<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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## Evaluation Releases

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

<table>
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<tr>
<td>HERE-sdk.zip/apk/maploader-release.apk</td>
<td>On-device map loader application enabling download of maps for offline usage</td>
</tr>
<tr>
<td>HERE-sdk.zip/misc/</td>
<td>Contains a sample Voice Skin file to be used with the Voice Navigation feature</td>
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</table>

**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.
Feature List

The main features offered by the HERE Android SDK are listed below.

Not all features are enabled by default. The features available to you are determined based on your business plan.

Note The HERE Android SDK is designed for standalone Android APK development. Using the HERE SDK for platform-embedded app development (apps that ship with the device ROM) is not supported.

Mapping:

- Dynamically download vector maps for more than 190 countries in over 60 languages
- Preload maps for offline usage
- Map styles: normal street map, satellite map, transit map, and more
- Textured 3D landmarks
- Street-level imagery
- Touch gestures (including rotate, tilt, pan, flick, and pinch zoom)
- Overlay objects on the map such as polylines, polygons, icons, and routes
- Map marker clusters
- 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 venue (indoor) maps
- Show real-time traffic flow and incidents
- 3D Extruded Buildings
- Transit object interaction
- Traffic object interaction

Search:

- Search through a broad set of geographical content, including various streets, address points, and categorized places across the globe
- Search for a specific place or explore by categories
- Access rich details for a Point of Interest from 3rd party content sources (including images, ratings, reviews, and editorials)
- Perform geocoding and reverse geocoding lookups
- Offline Places search, Geocoding, Reverse Geocoding
Directions:
- Get driving or pedestrian directions
- Public Transit directions using online timetables
- Specify preferred route type (fastest/shortest) and attributes to avoid (toll roads, motorways, parks, and more)
- Alternate routes
- Offline route calculation
- Driving directions that take traffic into account
- Directions for commercial vehicles
- Indoor routing

Turn-by-turn Navigation:
- Online turn-by-turn navigation for pedestrian, car, and truck routes
- Offline turn-by-turn navigation for pedestrian and car routes
- Natural-sounding guidance instructions, such as "turn left at the gas station" and "at the next light, turn right"
- Audio or text-to-speech voices
- Approximate user coordinates to the nearest road or navigation route
- Approximate user tunnel position, even when there is no GPS signal
- Dynamic information including signposts, the driver's current street lane, and speed
- Realistic previews of certain junctions and lanes

LiveSight:
- Track the position of a device in space and animate view accordingly
- Seamless transitions from Map to LiveSight and back again
- Gesture support allows the user to interact with content, custom gestures can also be defined
- Content transitions and interaction are animated using hardware acceleration
- "Radar" UI support, which provides the user with more context regarding their position relative to content
- Highly configurable LiveSight engine allows the user experience to be customized

Other Features:
- Custom location and custom location geometry search
- Support for fleet dispatching and connectivity
- Urban Mobility: transit station search and transit station departure board
- Map information for fleet vehicles and trucks
- Congestion toll zones and the typical traffic patterns for a given time of the week
Getting Started

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

HERE SDK 3.1.1
- No new features were added in this release.

HERE SDK 3.1
- We added support for polylines in LiveSight.
- We added new penalty modes to support avoiding certain roads and areas in a route calculation.
- We added a new type of Android view-based map object.
- We added custom location geometries.
- We added the transit station search and departure board Urban Mobility features.
- We added turn-by-turn navigation for truck routes.
- We added the fleet connectivity feature.
- We added indoor venue routing.

HERE SDK 3.0.2
- We added support for "via" waypoints for car routing.

HERE SDK 3.0.1
- We added support for Android M.
- We reduced the map coverage of Mainland China.
- We expanded the support of automatic geopolitical maps.

HERE SDK 3.0
- We enabled access to SDK packages based on license keys.
- We added 3D Venue Maps.
- We added the following enhancements to LiveSight:
  - Pedestrian Guidance
  - Support for external sensor data
  - Support for 3D objects
- We added improvements to audio session management and the ability to integrate SDK voice navigation with TTS engines used in customer applications.
- We added marker clustering.
- We added the ability to retrieve point of interest information from a tapped cartographic POI.
- We added native rendering for truck attributes, fleet maps, environmental zones.
API Changes, Fixed Issues, and Improvements

Version 3.1.1

- Added support for Android Target API Level 23.
- Fixed an issue where maneuver arrows disappear during pedestrian navigation.
- Fixed an issue where route calculations are unexpectedly performed online.
- Fixed an issue where safety spot notifications can cause the HERE SDK to crash.
- Fixed an issue where ETA threshold values from the fleet connectivity server are not properly handled.
- Improved the way fleet connectivity tasks are polled.

Version 3.1

- The copyright legal text has been updated in this release. Users of the HERE SDK must update their application to use this latest notice.
- Fixed an issue where the Avoid Congestion traffic mode is not taken into account in a route calculation.
- Fixed an issue where the places category list does not follow the device language

com.here.android.mpa.common

- Added the UninitializedMapEngineException class.

com.here.android.mpa.mapping

- Added the Map.Scheme.TRUCKNAV_HYBRID_NIGHT, Map.Scheme.TRUCKNAV_HYBRID_DAY, Map.Scheme.TRUCKNAV_DAY, Map.Scheme.TRUCKNAV_NIGHT enums.
- Added the MapOverlay class.
- Added the addMapOverlay(MapOverlay) and the removeMapOverlay(MapOverlay) methods to the Map class.

com.here.android.mpa.fce

- Added this new package to support the Fleet Connectivity feature.

com.here.android.mpa.routing

- Added the TrafficPenaltyMode.AVOID_CONGESTION and TrafficPenaltyMode.AVOID_LONG_TERM_CLOSURES enums.
- Deprecated the getTrafficPenaltyMode(), setTrafficPenaltyMode() methods and added the setDynamicPenalty(), getDynamicPenalty() methods.
- Changed the calculateRoute() method in RouteManager to always return one route if the RoutePlan contains more than two waypoints.
• **Deprecated the following methods from** `RouteOptions`: `doesTruckHasTrailer()`, `setTruckHasTrailer(boolean)`, `setTruckPermittedGrossWeight(int)`, `getTruckPermittedGrossWeight()`, `setTruckTrailerWeight(int)`, `getTruckTrailerWeight()`.  
• **Added the following methods to** `RouteOptions`: `setTruckTrailersCount(int)`, `getTruckTrailersCount()`, `setTruckType(TruckType)`, `getTruckType()`.  

**com.here.android.mpa.guidance**  
• **Changed the** `NavigationManager.setDistanceUnit(UnitSystem)` **method to return an error on an unsupported unit value.**  

**com.here.android.mpa.search**  
• **Deprecated the** `ReverseGeocodeRequest` **class and added the** `ReverseGeocodeRequest2` **class.**  
• **Removed previously deprecated rich text methods in** `Request`, `DiscoveryRequest`, `JsonRequest`, `TextSuggestionRequest`, `TilesRequest`.  
• **Deprecated the** `getNavigationPosition()` **method and added the** `getAccessPoints()` **method in the** `Location` **class.**  

**com.here.android.mpa.urbanmobility**  
• **Added this new package to support the Urban Mobility feature.**  

**com.here.android.mpa.venues3d**  
• **Added the** `init(OnEngineInitListener, VenueServiceListener)` **and** `getRoutingController()` **methods in the** `VenueMapFragment` **class.**  
• **Added the** `getRoutingController()` **method to** `VenueMapLayer`  
• **Added the** `setTestEnv(boolean)` **and** `setPrivateContent(boolean)` **methods to support the Private Venue feature.**  
• **Added the** `RoutingController, BaseLocation, CombinedRoute, IRouteSection, LinkingRoute, OutdoorLocation, OutdoorRoute, SpaceLocation, VenueManeuver, VenueRoute, VenueRouteOptions` **to support the Venue Routing feature.**  

**com.here.android.mpa.ar**  
• **Added the** `ARPolylineObject` **and** `LineAttributes` **classes. Also modified** `ARController` **to support** `ARPolylineObject`. 
System Requirements

- 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.
Known Issues

- 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.
Copyright Information

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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* libjpeg 9
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interface of the 'zlib' general purpose compression library
version 1.1.4, March 11th, 2002
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Jean-loup Gailly        Mark Adler
jlooup@gzip.org          madler@alumni.caltech.edu

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Calling this script install-sh is preferred over install.sh, to prevent 'make' implicit rules from creating a file called install from it when there is no Makefile.

This script is compatible with the BSD install script, but was written from scratch. It can only install one file at a time, a restriction shared with many OS's install programs.

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**************************************************************************
* Protocol Buffers 2.6.0
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* libpng 1.6.16

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* libjson 7.6.1
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* ios-analytics 1.0.0
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