

# HERE Android SDK

## Release Notes

Premium Edition Version 3.2.1

The logo consists of the word "here" in a bold, blue, lowercase sans-serif font, rotated 45 degrees counter-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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### Product

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Version:	Premium Edition Version 3.2.1

### Document

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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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As this is only a maintenance release, we did not add any new features.

See [Changes](#) on page 8 for details about the changes in this release.

# Chapter 2

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## Changes

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**Topics:**

- [New Features](#)
- [Functional and Behavioral ...](#)
- [Resolved Issues](#)
- [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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No new features were added in this release.

## Functional and Behavioral Changes

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There are no functional or behavioral changes in this release.

For added and improved functionality in previous releases, see the relevant chapters in these documents: [HERE Android SDK - Premium Edition Release Notes](#)

## Resolved Issues

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The following table summarizes major issues resolved in HERE Android SDK.

**Table 1: Resolved Issues**

#	Issue	Solution
1	In some cases, using Urban Mobility routing may cause crashes.	We have improved the internal implementation with Urban Mobility routing.
2	Using Urban Mobility routing may cause an Unknown error.	The issue causing this error is fixed in this release.
3	Tunnel extrapolation may unexpectedly change its status when a position is received during extrapolation.	We have improved how tunnel extrapolation handles this type of scenario.
4	Traffic delay times appear incorrectly as zero when navigation is started.	Traffic delay times are now correct during navigation.
5	Users of Android level 23 may be affected by the Doze feature.	We added a Development Tip in the Developer's Guide to ask developers be mindful of this feature and to refer to the official documentation.

## API Changes

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### Added

- `globalCategory(Global)` and `globalCategories()` in **Places** Category

### 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 v3.2.1 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 v3.2.1 Developer's Guide.pdf	HERE Android SDK Developer's Guide
HERE-sdk.zip/misc/	Contains a sample Voice Skin file to be used with the Voice Navigation feature

## 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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=== GLM 0.9.7 ===

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=== Log4cplus 1.1.3-rc4 ===
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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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```

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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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Advanced Computing
Fantoftvegen 38, 5036 BERGEN, Norway
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MiniZip -
Copyright (c) 1998-2010 Gilles Vollant - version 1.1 64 bits from Mathias Svensson
Copyright (C) 2003 Justin Fletcher
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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Original code by Lee Thomason (www.grinninglizard.com)

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