



# HERE Android SDK

## Release Notes

Starter Edition Version 3.9

# Important Information

## Notices

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**Topics:**

This section contains document notices.

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

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## Document Information

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# Chapter 1

## Overview

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### 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

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

- This version of the SDK has been updated to work with Android 9.0.

## Chapter 2

# Changes

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### Topics:

- [New Features](#)
- [Functional and Behavioral ...](#)
- [Resolved Issues](#)
- [API Changes](#)
- [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 - Starter Edition Release Notes](#)



## New Features

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### HERE SDK 3.9

- Added support for Android 9.0. See [Functional and Behavioral Changes](#) on page 9.

## Functional and Behavioral Changes

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**Table 1: Functional and Behavioral Changes**

#	Description
1	<p>The HERE SDK now supports Android 9.0. If you plan to support this version of the OS, be sure to test your apps for the following new behaviors:</p> <ul style="list-style-type: none"> <li>• Apps that target Android 9 (API level 28) or higher and use foreground services must request the <code>FOREGROUND_SERVICE</code> permission. For more information, see <a href="#">Running a service in the foreground</a>.</li> <li>• From Android 9.0 onwards plain text HTTP transfers are blacklisted unless configured explicitly. For more information, see <a href="#">Network security configuration</a>.</li> <li>• From Android 8.0 onwards, in some cases it is not permitted to start service. For more information, see <a href="#">Background execution limits</a>.</li> </ul> <p>For more information, see the Android Developers article <a href="#">Android 9.0 Behavior Changes</a>.</p>

For added and improved functionality in previous releases, see the relevant chapters in these documents:  
[HERE Android SDK - Starter Edition Developer's Guide](#)

## Resolved Issues

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

**Table 2: Resolved Issues**

#	Description
1	We fixed an issue with panning during long click gesture.
2	We fixed an issue with printing <code>FileNotFoundException</code> exception to the log file on first run.
3	Fixed an issue with triggering <code>onLongPress</code> event during two finger move.
4	We improved map rendering when zooming in or out.
5	We improved map loading performance.
6	Fixed an issue with black screen after phone rotation.
7	We supported map zoom level 20.

## API Changes

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### 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 - Starter Edition Release Notes](#)

## Limitations and Workarounds

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There are no known limitations and workarounds in this release.

# Chapter 3

## 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>Documentation</b>	API Reference Documentation and Developer Guide
<b>Sample Application</b>	Sample application project

## Package Description

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HERE Android SDK Starter Edition v3.9 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/libs	Native and Java libraries
HERE-sdk.zip/libs/docs/mapsdoc	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 Starter Edition v3.9 Developer's Guide.pdf	HERE Android SDK Developer's Guide

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## Getting Started

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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

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**Topics:**

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

This appendix contains other information about the release such as release overview, technical specifications, dependencies, 3rd party copyright notices, release quality and related documents.

## System Requirements

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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, see [Service Support](#) to contact us for more details .

- 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.
  - 32MB of memory (RAM) available for foreground applications.
  - For the storage of application binaries, an additional 1MB for the HERE SDK libraries, if bundled with the application, should be taken into account.
  - For storage of map data, a minimum of 3.5MB should be made available.
  - Data connectivity (WiFi or Cellular) is required to download map data.
- 📄 **Note:** HERE Android SDK does not support x86 Android and x86\_64 devices. x86 and x86\_64 emulators are supported. It is recommended that app testing is performed on ARM and ARM64 devices.

## Copyright Information

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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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* analytics-android 0.6.10  
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