

# HERE Android SDK

Release Notes

Starter Edition Version 3.2.2

The logo for HERE, consisting of the word "here" in a bold, blue, lowercase sans-serif font, tilted at an angle.

---

# Important Information

---

## Notices

---

**Topics:**

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

This section contains document notices.

## Legal Notices

---

© 2016 HERE Global B.V. and its Affiliate(s). All rights reserved.

This material, including documentation and any related computer programs, is protected by copyright controlled by HERE. All rights are reserved. Copying, including reproducing, storing, adapting or translating, any or all of this material requires the prior written consent of HERE. This material also contains confidential information, which may not be disclosed to others without the prior written consent of HERE.

### Trademark Acknowledgements

HERE is trademark or registered trademark of HERE Global B.V.

Other product and company names mentioned herein may be trademarks or trade names of their respective owners.

### Disclaimer

This content is provided "as-is" and without warranties of any kind, either express or implied, including, but not limited to, the implied warranties of merchantability, fitness for a particular purpose, satisfactory quality and non-infringement. HERE does not warrant that the content is error free and HERE does not warrant or make any representations regarding the quality, correctness, accuracy, or reliability of the content. You should therefore verify any information contained in the content before acting on it.

To the furthest extent permitted by law, under no circumstances, including without limitation the negligence of HERE, shall HERE be liable for any damages, including, without limitation, direct, special, indirect, punitive, consequential, exemplary and/ or incidental damages that result from the use or application of this content, even if HERE or an authorized representative has been advised of the possibility of such damages.

## Document Information

---

### Product

Name:	HERE Android SDK
Version:	Starter Edition Version 3.2.2

### Document

Name:	HERE Android SDK Release Notes
ID:	2e200a2-1475860225
Status:	FINAL
Date:	2016-Oct-07, 17:24 (GMT)

### Digital Signature

Signatory:	O=HERE, CN=here.com, ST=Berlin, C=DE
Issuer-Certificate:	O=HERE, CN=here.com, ST=Berlin, C=DE
Serial-Number.:	17391143833054135595
Method:	urn:adobe.com:Adobe.PPKLite:adbe.pkcs7.sha1 (Adobe Signature)

# Contents

<b>Notices</b> .....	<b>2</b>
Legal Notices.....	3
Document Information.....	4
<b>Chapter 1: Overview</b> .....	<b>6</b>
Highlights.....	7
<b>Chapter 2: Changes</b> .....	<b>8</b>
New Features.....	9
Functional and Behavioral Changes.....	9
Resolved Issues.....	9
API Changes.....	9
Limitations and Workarounds.....	10
<b>Chapter 3: Package Information</b> .....	<b>11</b>
Release Content.....	12
Package Description.....	12
Getting Started.....	12
<b>Appendix A: Appendix</b> .....	<b>13</b>
System Requirements.....	14
Copyright Information.....	14

# Chapter 1

---

## Overview

---

### 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.

To address requests from customers for a smaller footprint SDK, the Starter Edition was introduced with SDK 3.0. The Starter Edition can be viewed as offering native APIs for Search (Places, Geocoding and Reverse Geocoding), Routing, and also rendering of raster map tiles. Map tile rendering uses OpenGL to ensure good performance and caching of map tiles is implemented to minimize re-download of previously downloaded tiles. Additionally, support is added for basic gestures and adding objects to the map.

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

---

For a list of the new features in this release, see [New Features](#) on page 9 .

For details about the issues fixed in this release, see [Resolved Issues](#) on page 9.

# Chapter 2

---

## Changes

---

**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

---

The following list contains new features in the current release of the HERE Android SDK:

### HERE SDK 3.2.2

- Added support for Android 7.0 Nougat.

## Functional and Behavioral Changes

---

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 - Starter Edition Developer's Guide](#)

## Resolved Issues

---

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

Table 1: Resolved Issues

#	Issue	Solution
1	<code>Map.setTransformCenter()</code> is not working as expected. The center of the viewport is used instead.	Map transformations now respect the <code>setTransformCenter()</code> setting. You can see this by zooming in with a double-tap gesture

## API Changes

---

### Deprecated

- `MapActivity`

For API changes in previous releases, see the relevant chapters in these documents: [HERE Android SDK - Starter Edition Release Notes](#)

## Limitations and Workarounds

---

There are no limitations and workarounds in this release.

# 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

---

<b>Native APIs</b>	Enabling native applications to leverage HERE functionality
<b>Documentation</b>	API Reference Documentation and Developer Guide
<b>Sample Applications / Code</b>	One or more sample applications

## Package Description

---

HERE Android SDK Starter Edition v3.2.2 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 Starter Edition v3.2.2 Developer's Guide.pdf	HERE Android SDK Developer's Guide

---

## 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

# A

---

## Appendix

---

**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

---

- Android 4.0.3 "Ice Cream Sandwich" (API Level 15) or higher as the application Minimum API Level (`android:minSdkVersion`).
  - 32MB of memory (RAM) be made available for foreground applications using the HERE SDK
  - For storage of application binaries, an additional 1MB 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, 3.5MB 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.

## 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.

### Copyright Notice

```
© 2016 HERE. All rights reserved.
```

```
HERE is trademark or registered trademark of HERE Global B.V.  
Other product and company names mentioned herein may be trademarks or trade names of their  
respective owners.
```

```
-----
```

```
This product includes certain open source software.  
Please see below for applicable copyright and other notices,  
permissions and acknowledgements:
```

```
-----
```

```
*****  
* analytics-android 0.6.10  
*****
```

```
Apache License  
Version 2.0, January 2004  
http://www.apache.org/licenses/
```

```
TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION
```

```
1. Definitions.
```

```
"License" shall mean the terms and conditions for use, reproduction,  
and distribution as defined by Sections 1 through 9 of this document.
```

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You

institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.



8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

----