

Snapdragon SDK Release Notes

Version 2.2

April 2, 2014

Submit technical questions at: http://developer.qualcomm.com/discuss/

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1 Revision History

Revision	Date	Description	
A	September 2012	Release version 1.0	
В	November 2012	Release version 1.1	
С	August 2013	Release version 2.0	
D	February 2014	Release version 2.1	
Е	March 2014	Release version 2.1.1	
F	April 2014	Release version 2.2	

Note: There is no Rev. I, O, Q, S, X, or Z per Mil. Standards.

2 Introduction

2.1 Purpose

The purpose of this document is to communicate the features and known issues, if any, released with the Snapdragon SDK.

2.2 Conventions

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Function declarations, function names, type declarations, and code samples appear in a different font, e.g., #include.

Code variables appear in angle brackets, e.g., <number>.

Commands to be entered appear in a different font, e.g., copy a:*.* b:.

Button and key names appear in bold font, e.g., click Save or press Enter.

If you are viewing this document using a color monitor, or if you print this document to a color printer, red typeface indicates data types, blue typeface indicates attributes, and green typeface indicates system attributes.

Parameter types are indicated by arrows:

- → Designates an input parameter
- Designates an output parameter
- ⇔ Designates a parameter used for both input and output

Shading indicates content that has been added or changed in this revision of the document.

2.3 References

Reference documents, which may include Qualcomm documents, standards, and resources, are listed in Table 2-1. Reference documents that are no longer applicable are deleted from this table; therefore, reference numbers may not be sequential.

Table 2-1 Reference documents and standards

Ref.	Document			
Qualcomm				
Q1	Snapdragon SDK Test App Release Notes	Included in SDK Package		
Stand	Standards			
Resources				
R1	Qualcomm Developer Network	N/A		
R2	Snapdragon SDK Download Instructions	N/A		

2.4 Technical assistance

10 11 12 For assistance or clarification on information in this guide, contact Qualcomm's customer support at https://developer.qualcomm.com/discuss

3 New Features

Features included in the newest version of the Snapdragon SDK will be listed here. Features included in previous releases are listed in section 6.

SDK Version	Feature Name	Feature Description	New / Upgrade
2.2	Sensors	Support for following sensors features as part of our Early Access SDK – 1. FEATURE_ABSOLUTE_MOTION_DETECTION 2. FEATURE_ACTIVITY_RECOGNITION 3. FEATURE_FACING 4. FEA TURE_GESTURES 5. FEA TURE_RELA TIVE_MOTION_DETECTION 6. FEATURE_TAP 7. FEATURE_TILT	New
2.1.1	Facial Processing	Introducing C libaries for accessing facial processing functionality from a native application	New
2.1	Facial Recognition	Face recognition and recognition album management.	New
2.1	Snapdragon Gestures	Added the following new listeners:	Upgrade
2.1	Device Info	Added detection of the criteria based location feature	Upgrade

4 Test Application

A comprehensive Test Application is included for verification of Snapdragon SDK for Android features. This application is labeled "Snapdragon SDK Test App" and can be found in the "testapp" folder included in the SDK download package

There is a separate Test Application for verification of early access Snapdragon SDK features. This application can be found in the "early_access/testapp" folder.

4.1 Compatibility Issues w/ MDP Devices

Feature	Description	SDK Version
None	None	N/A

4.2 Test App Limitations

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Feature	Description	SDK Version
Deprecated Features	Tests for features that have been deprecated have been removed from the Test App starting with version 2.0.	2.0

5 Usage

5.1 Snapdragon SDK Download & Installation

For the latest instructions on downloading and setup, please refer to the Snapdragon SDK for Android web page on the Qualcomm Developer Network website.

5.2 Importing Required Libraries

5.2.1 Copying Required Libraries into the Project

For any shared object libraries, mimic the folder structure present in the SDK folder in the destination project. For example, for facial processing a developer would need to add a new folder called "armeabi" in the "libs" folder in their project.

Once the folder structure has been mimicked, the libraries can be dragged and dropped into the project folder from the SDK folder.

For .jar files, the developer can simply copy them into the project "libs" folder.

5.2.2 Edit the Java Build Path

Developer can use the following directions to update the java build path:

- 1. Right click project and select "Properties"
- 2. In properties dialog, select "Java Build Path"
- 3. Select "Libraries" tab
- 4. Click "Add JARs"
- 5. In the JAR Selection dialog, select "facial processing.jar" file and click "Ok"
- 6. Click "Ok" in the "Properties" dialog
- 7. Clean and re-build the project to complete this process

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6 Cumulative Features

Complete list of SDK features with the version they were introduced and deprecated (if applicable).

Feature Description SDK Deprecated Release Version Support for following sensors features as part of our 2.2 No Sensors Early Access SDK -FEATURE_ABSOLUTE_MOTION_DETECTION FEATURE_ACTIVITY_RECOGNITION FEATURE FACING FEA TURE_GESTURES FEA TURE RELA TIVE_MOTION_DETECTION FEATURE TAP FEATURE TILT Facial Face recognition and recognition album 2.1 No management. Recognition 2.0 Facial Face detection and tracking for camera No preview/video frames and still images. Face data Processing includes: Blink detection Smile detection Gaze tracking Face orientation (Yaw, Pitch, Roll) Camera Gestures – Detect touch less gestures 1.1, 2.1 No Snapdragon Gestures through the camera Near swipe Far swipe left / right / up / down Pointer control Click and Drag Circle Enablement of Snapdragon device detection 1.1 No Snapdragon DeviceInfo FastCV 1.1 Enablement of mobile-optimized computer vision 1.0 Yes, 2.0 processing **SDK**

Snapdragon Camera SDK	Camera Facial Processing – enhance Android face tracking Eye tracking (eye open / closed) Gaze tracking (eye direction) Smile value (estimate the degree of the smile)	1.0	Yes, 2.0
Snapdragon Sensors SDK	Sensor Gestures – Detect additional sensor events at low-power Tap / Shake / Push / Pull Face Up / Face Down Tilt	1.0	Yes, 2.0
Snapdragon Audio SDK	Detection and configuration of advanced recording and VOIP capabilities • Surround Sound Recording • Echo Cancellation and Noise Suppression • Audio codecs (EVRC, LPCM, QCELP, QCP, WAVE, 3GPP) • Vocoder codecs (AMR_NB, AMR_WB, EVRC, EVRCB, EVRCWB)	1.0	Yes, 2.0
IZat Location SDK	Detection of advanced location capabilities Indoor Positioning Low Power Geofencing Criteria-based Positioning	1.0	Yes, 2.0
Adreno Graphic Samples	Sample code for optimizing OpenGL-based applications	1.0	Yes, 2.0

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