ABBYY®

MOBILE IMAGING SDK RELEASE 5

RELEASE NOTES

7/12/2017

1 CONTENTS

2 About This Release

2.1 Purpose

Purpose of the release:

1) Support of ARM64 Android processors

2.2 Build Information

Part Number: 1125/12
Build Number: 1.2.3.29

2.3 History of Releases for This Product Version

Release #	Date	Purpose	Key new features
MI SDK	12/06/12	New product	• Analysis of Images for OCR • Enhancement of Visual Quality • Image Export to PDF, JPG and PNG
MI SDK R4	12/07/16		• Support of the new versions of iOS and Android platforms • Fix critical bugs: Compatibility with Mobile OCR Engine

2.4 Additional Information

Knowledgebase: https://abbyy.technology/en:products:mobile-imaging:start
Forum: http://forum.ocrsdk.com/

3 New Features and Improvements

3.1.1 Support of iOS 9

This release supports iOS 9.

The distribution pack includes universal binary libraries with the x32 and x64 ARM architectures support.

3.1.2 Support of Android 6

This release supports Android 6.

3.1.3 POSSIBILITY TO SET UP IMAGE RESOLUTION FOR EXPORT

Overloaded export methods (exportJPEG, exportPNG) were added into iOS and Android wrappers. For these methods a new parameter 'dotsPerInch' was added. The parameter provides the functionality for setting up the image resolution (in dpi) for exported images.

The new functionality is useful in "Prepare image for recognition on server" scenario. It is now possible to select an appropriate resolution for the image to produce good recognition results.

By default, (i.e. for methods exportJPEG, exportPNG without dotsPerInch parameter) 300 dpi resolution is set up for exported images.

3.1.4 IMPROVEMENT OF FAST MODE OF EDGES RECOGNITION METHOD

The fast mode of FineRecognizeEdges method was updated.

A new fast mechanism is even 2 times faster than the previous one [fast mode of edge detection method used in MI SDK 1 R3 and before] and it provides more accurate results.

Please, see below the comparison table for different modes of edge detection algorithm.

	FineRecognizeEdges (General)	FineRecognizeEdges (Fast)
Average time per image (in ms)[i]	1200	110
When should be used	Works in good (all document edges are on the image, contrast background, etc.) and bad conditions as well. However it can 'join' to document some background or 'miss' some insignificant (without text) document parts. Should be used in 'automatic document crop' scenario, when the edge detection and further cropping are doing without user control.	Works only under good conditions. Don't work (return an empty result) in case some document vertex aren't located on the image or the background is low-contrast/heterogeneous. Should be used in 'Manual document crop' scenario, when the edge detection result is verified by user before the document cropping.

3.1.5 UPGRATE OF LIBPNG VERSION

Starting from this release libpng 1.6.23 is used in the library Previously the libpng 1.5.12 was used. This version has some vulnerabilities which prevent the apps which use the library from publishing in the Google Play (due to Google Play Policy).

3.2 Release 5

3.2.1 Support of ARM64 architecture for Android

This release supports ARM64 architecture for Android library.

The distribution pack includes separate Android binary libraries with the x32 and x64 ARM architectures support.

4 Fixed Issues

This section contains a list of bugs reported by customers that have been fixed.

Four-point scale will help you to evaluate the severity of each issue, allowing you to make informed decision on how important updates are for your system.

Critical	A bug that causes crashes or hangings of software. Critical bugs can include access violations, internal program errors, stack overflow, out of memory or other exceptions that can lead to program failure.
Major	A bug that does not cause program failure but affects major functionality of a feature or impairs the system's performance. Major bugs can include disparity of the feature functionality to the internal specifications, memory leaks or data corruption.
Minor	A bug that leads to feature malfunctioning or affects minor functionality of the software. Minor bugs can include recognition errors, missing or lost objects, wrong color detection, incorrect document analysis, license counter errors, etc.
Trivial	A cosmetic issue that does not affect the functionality of the product but can cause inconveniences. Trivial bugs can include Help file errors, log errors, incomplete information in error messages, etc.

The table below contains the list of bugs fixed in the previous Release 4 sorted in descending order of severity. No major fixes in this Release 5.

Severity	Description	Platform
Critical	App crash while calling FineDetectBlur for some images.	Android
Major	Mobile OCR Engine and Mobile Imaging SDK libraries can't be used in the same project due to the namespace conflict.	iOS/ Android
Major	An image changes the colors (it becomes red) while converting UIImage to MIImage object.	iOS
Minor	A project uses Mobile Imaging SDK can't be compiled when the Deployment target is set to iOS 7.x and later.	iOS

5 KNOWN ISSUES

5.1.1 IMAGE QUALITY DETECTORS DON'T WORK FOR TRIAL LICENSES IN CASE SCRAMBLING IS TURN ON

In case scrambling is turned on (for a trial license) the detectors (blur, glare, etc.) return only the info whether a defect was detected or not, but don't return any info about the area where the defect was detected.

In case a customer needs to test the full functionality of detectors, he/she should be provided with a trial license which has scrambling turned off.

Please, note that all trial price lists in the registration database were updated and scrambling was turned off.

Please, take into account that Sample app provided in the distribution uses a trial license with turned on scrambling (i.e. image quality detection methods don't return the full info). In case a customer wants to test the detectors with the help of the Sample app, he\she needs to change the license file to a one with turned off detectors.

6 CUSTOMER SUPPORT

The ABBYY SDK Support team is ready to help you. Please refer to the contact information and hours below.

6.1 CONTACTS

Customer Support Management (CSM) Portal: www.abbyy.com/csm

Developer Support Email: Dev_support@abbyyusa.com

Office Hours: Monday – Friday from 9AM to 6PM PST

6.2 INFORMATION REQUIRED

When opening a support case or contacting support, please be prepared to provide the following information:

- Description of the issue
- Sample images for testing
- Run and send Ainfo Report from Bin/Support folder of installation directory
- Full error messages that have occurred
- Any additional information you feel may be helpful for the investigation

The information above will assist the ABBYY Support team in investigating your issue and providing a prompt response.