

# Mobile SDK

## Release Notes

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# Release notes

The software and documentation is available from the Kofax Fulfillment Site: <https://delivery.kofax.com/>. A representative from your company registers on this site to download the software and documentation.

Documentation for this product is available [online](#).

If you are already a Kofax customer, contact your Kofax Professional Services Regional Manager to discuss and plan your upgrade.

If you are an existing customer, follow the instructions below to access the product for this release:

1. Log in to the Kofax Fulfillment Site (<https://delivery.kofax.com/>).
2. From the Your Software list, locate and select the product you want to download.
3. Follow the instructions on the Fulfillment Site to complete your download.

The available packages include the software, documentation, and license keys for the release.

New customers will receive an email from Kofax after their product's purchase. The email will contain a serial number to use when registering on the Kofax Fulfillment Site. Registration provides customers with the credentials needed to download their product.

## Version information

The SDK version can be found by looking in the `versions.txt` file included in the delivered product.

## What's new

### Improved Image Cropping

Algorithms for image auto-cropping have been improved for the following scenarios:

- document captured with a complex background
- document captured with glare in the background
- document captured with one corner obscured
- document captured with two edges obscured

### Fixed Aspect Ratio Capture Experience

The `FixedAspectRatioCaptureExperience` offers a guided experience for capturing any document with a known aspect ratio. This also includes the ability to take a picture of any document by holding it in hand until document edges are strong enough for detection.

**PhoneGap capture experience**

Updated capture experience `setOptions` Object to make consistent across all capture experiences. This is applicable for Check, Document and Passport capture experiences.

**HTML5 APIs**

Added `performExtractionWithRttiServer`, `loginToKTAServer` and `executeRequestOnKtaServer` APIs to `DocumentExtractor` class.

**PhoneGap API**

Added `bindCaptureControlWithOptions` API for all capture experience classes. This is applicable for Check, Document and Passport capture experiences.

**PhoneGap Cordova support**

Added Cordova 7.X support.

## Deprecated features

**Note** Kofax Kony FFI support has been removed in SDK 3.3 Release.

**Deprecated API features**

Class <code>BasicSettingsProfile</code>	Please use <code>ImageProcessorConfiguration</code> instead
Class <code>ImagePerfectionProfile</code>	Please use <code>ImageProcessorConfiguration</code> instead
Member <code>ImageProcessor.processImage (Image image)</code>	Replaced by <code>processImage (Image, ImageProcessorConfiguration)</code>
Member <code>ImageProcessor.setBasicSettingsProfile (BasicSettingsProfile basicSettingsProfile)</code>	Please use <code>ImageProcessorConfiguration</code> as an argument for calling <code>processImage (Image, ImageProcessorConfiguration)</code>
Member <code>ImageProcessor.setImagePerfectionProfile (ImagePerfectionProfile imagePerfectionProfile)</code>	Please use <code>ImageProcessorConfiguration</code> as an argument for calling <code>processImage (Image, ImageProcessorConfiguration)</code>
Enum value <code>DocumentDetectionSettings.DocumentEdgeDetection.ISG</code>	Deprecated legacy algorithm

**Deprecated PhoneGap features**

- Removed deprecated Front Office and Total Agility servers. Recommended to use the Capture Server class instead.
- Removed deprecated `takePicture`, `continuousCapture`, `FrameOptions` and `LevelingOptions` from `ImageCaptureView` classes. Set these options using the Capture Experience classes.

### Deprecated HTML5 features

- Deprecated KTA authentication, extraction and facial recognition APIs from `DocumentExtractor` class. All these are now combined into the `executeRequestOnKtaServer` API.
- Removed WebCapture support for SurfacePro4 tablet due to poor extraction results.
- Deprecated `extractionWithRttiServer` API from `DocumentExtractor` class.
- Removed deprecated `supportsAdvancedCapture` API from `Utilites` class. Instead of this use `supportsAutoCapture` API.

## Resolved issues

This section contains information about issues that have been resolved as of this version of the product.

### Documentation was unclear about credit card extraction support

The SDK Admin guide was unclear regarding support for credit card extraction. The Mobile SDK only supports on-device credit card extraction for embossed cards using Card.io. Extraction for non-embossed cards is not supported on device. (962670)

Affected platforms and/or known devices:

- Mobile SDK

### TransactionTooLargeException crashed when selecting consecutive image from gallery

This issue happened with several sample applications, including the ImageProcessor Sample app and the Server API sample app. Selecting and processing the first image is fine, but when selecting a second image from the device's Gallery the crash could occur. It could also happen with some other sample apps not by selecting a 2nd image from the gallery, but instead by minimizing the application while an image is shown in the ImageEditReviewControl. (899945)

Affected platforms and/or known devices:

- Android
- Various SDK sample apps

```
add android:saveEnabled="false" to the layout for the ImgReviewEditCntrl
```

### Gradle version needed to be updated for KTA Connect project source code

When attempting to perform a Gradle sync for the current KTACoconnect app from the SDK, Android studio reported that the sync failed to update the plugin to version 2.2.2. (899134)

Affected platforms and/or known devices:

- KTA Connect
- Android

## Push notifications enabled by default

In the KMD source code, by default Push Notifications were enabled. This may have caused an error related to Code signing. I. (898657)

Affected platforms and/or known devices:

- Kofax Mobile Demo (KMD) application

## Constants in Constants.java needed to be populated

Some of the constants in the file `Constants.java` needed to be populated before the IDVerification sample project could be built. Use the following as a guide to updating the `Constants.java` file. (897362)

```
public class Constants {  
  
    public static final String LICENSE = "[MobileSDK License String]";  
    public static final String RTTI_VOLUME_LICENSE_URL = "https://[YOURSERVER]/  
mobilesdk";  
    public static final String KTA_AUTHENTICATION_URL = "http://[YOURSERVER]/  
TotalAgility/services/SDK/";  
    public static final String AUTHENTIC_ID_JOB_SERVICE = "JobService.svc/json/  
CreateJobSyncWithDocuments";  
    public static final String SESSION_ID = "[KTA SESSION_ID]";  
    public static final String REGION = "United States";  
}
```

**Note** RTTI\_VOLUME\_LICENSE\_URL can be a Kofax license server from an RTTI or KTA server

**Note** Be sure that the value for "REGION" matches the value `_region` in the `ODEExtractionManager.java` file, otherwise Authentication will not work.

## Extraction failed when both sides were sent to KTA

The On-Boarding application did not scale images and this sometimes lead to incomplete data being sent to the server for extraction, resulting in an error. This was more likely to happen with very high resolution images (895492)

Affected platforms and/or known devices:

- HTML5 onboarding

## Extraction failed if both images were sent to extraction

On-Device Extraction failed if both images were sent to extraction. Images were ignored as `kfxKEDImage` and path to a file was set. (799831).

Affected platforms and/or known devices:

- iOS

## Default RTTI extraction server setting was not used

The Easy Snap app crashed when the captured ID was sent to the default RTTI server for extraction. But the problem we found was that the default RTTI extraction server for ID extraction was not set, so the workaround was to change the server type to KTA and extract the ID and then change the server type back to RTTI, and the extraction worked without crashing. (799199).

Affected platforms and/or known devices:

- iOS 9.3.2

## Most raw USA passports were classified as generic

Most (over 70%) unprocessed image of USA passports were incorrectly classified as "Generic" (769424, 776646).

Affected platforms and/or known devices:

- iOS and Android
- USA Passport on device extraction

## Extraction crashes with color TIFF files

When trying to process a color TIFF file, the kfxKOEIDExtractor crashes when the host device was running iOS 10. iOS versions 10.2.0 and newer do not exhibit this issue.(756506)

Affected platforms and/or known devices:

- iOS 10

**Workaround:** Avoid using color TIFF files.

## On Android Kofax Mobile Demo, Kofax Analytics for Mobile was not supported

In Kofax Mobile Demo the app stats reporting/session lifecycle needed to support Kofax Analytics for Mobile 1.0 statistics was not supported. (721141)

Affected platforms and/or known devices:

- Android

## Loader ran continuously after selecting an image

After selecting an image from the gallery, the loader continuously ran on the screen. (718000)

Affected platforms and/or known devices:

- Android 4.3 or below
- Samsung S3
- Sony Xperia Tab Z

## ODE did not refill licenses if count reached zero

On-Device Extraction failed with an "out of license" error when the remaining license count on device reached zero, even if the volume license server connection was available. (707822, 707823)

Affected platforms and/or known devices:

- Android
- iOS

## ODE returned xx when the date had no day value

If there was no date, then On-Device Extraction returned YYYY-MM-XX: it returned XX for the day. ( 712533)

Affected platforms and/or known devices:

- iOS
- Android

## Improper crop on US DL back images

HTML5 processing of the back of IDs is supported, however, on occasion, cropping would not be exact. This did not affect barcode extraction. (698185)

Affected platforms and/or known devices:

- HTML5

## Captured image was overexposed on Asus Zenfone

When autotorch was on, and an image was captured under low light conditions, the resulting image may have been unevenly over exposed to the extent that half the image is completely white. (691353)

Affected platforms and/or known devices:

- Android
- Asus Zenfone x86

## In some cases, EVRS couldn't read TIFF files

EVRS couldn't read TIFF files if the ImageLength tag did not immediately follow the ImageWidth tag. (685481)

Certain devices may create TIFF files with the ImageWidth and ImageLength tags in the correct order but some other tag (for example, the BitsPerSample tag) inserted between them. In such cases EVRS returned an error.

Affected platforms and/or known devices:

- EVRS

## Camera could no be configured for any HD resolution

We had seen cases where Nexus 6 devices, with Android OS version 6.0 and Chrome browser version 48.0.02564.95, were unable to render the HTML5 camera, and "Camera cannot be configured for any HD resolution" was displayed as an alert. (690304)

Affected platforms and/or known devices:

- Android 6.0
- Nexus 6

## Android packaged capture extraction never timed out

If you used an invalid URL in the package capture workflow activities it could have caused extraction to hang. (672632)

Affected platforms and/or known devices:

- Android

## Error when building KTA connect from the build folder

When building the KTA Connect app from the build folder, the application may have failed to run while reporting: "Unable to open PNG file". (672074)

Affected platforms and/or known devices:

- Android

## Some images underexposed

Some images may have been underexposed when using certain devices. (665002)

Affected platforms and/or known devices:

- Android 6
- PhoneGap and Kofax Mobile Demo application
- Nexus 5

## HTML5 sample app behavior was unstable if the user refreshes

If the app was refreshed the following incorrect behaviors may have been observed. (646801)

- Buttons become unresponsive
- Thumbnail to open camera becomes unresponsive
- All default data is cleared
- The settings menu is displayed in the center of the screen

Affected platforms and/or known devices:

- HTML5 Sample App

## HTML5: Captured image not displayed

When using HTML 5, The captured image was not retrieved, and consequently not displayed, when the native camera option was used. Despite this, the take picture success callback was called. (645168)

Affected platforms and/or known devices:

- HTML5
- iOS8.0, iOS8.3
- Safari

## Missing build.gradle file in sample apps

When building the `SampleApps2.5_Android` project, either the `sdk-release.aar` file needs to be used, which requires each module's `build.gradle` file to be edited, or the `sdk-release.jar` file needs to be used, which requires each module's `AndroidManifest.xml` file to be edited. Instructions for each method can be found in the *Getting Started with the SDK* section of the *Mobile SDK Developer's Guide*. (642160)

Affected platforms and/or known devices:

- Android
- `SampleApps2.5_Android` project

## Document capture experience crashed with languages other than English

There may have been a crash in the Document Capture Experience when the device was set to languages other than English. This was only seen with the `DocumentCaptureExperience` and with those `Packaged Capture Experience` work flows that used it. (641967)

Affected platforms and/or known devices:

- Android
- Document Capture Experience

## Session ID required to submit to server when multiple logons disabled

When using the `Packaged Capture API` to submit images to TotalAgility, you it was necessary to enable the TotalAgility multiple logon feature. Otherwise the submit would have failed with the following `errorMessage: Value cannot be null. Parameter name: sessionId`. (The full error is reported in the Event Log on the TotalAgility server). (640412)

Affected platforms and/or known devices:

- `Packaged Capture API`

## Moto X did not support auto torch

On the Moto X, the LED was always on when the flash mode was set to Auto Torch. Auto Torch worked correctly on other supported Android devices. (636440)

Affected platforms and/or known devices:

- Android
- Moto X

## Submission failed if field contains <

Submission to KFS and KTA failed if a field value contained the < character. This issue was not seen on Android. (626716)

Affected platforms and/or known devices:

- iOS

## Out of memory when using bar code reader

There was a random out of memory error that caused the device to crash when using the bar code reader to search for Datamatrix bar codes when there were none. If the bar code reader found a Datamatrix code, this error did not occur. This had not been seen in devices other than the Galaxy S4 with Android version 4.3. Newer versions of Android on this device had not been tested. (612749)

Affected platforms and/or known devices:

- Android 4.3
- Samsung Galaxy S4

## Message not clipped correctly in portrait mode

In some devices, the instruction message was not the clipped correctly when the device screen was in portrait mode. This did not happen when the phone was rotated so that the screen was in portrait mode. (611787)

**Note** This issue was dependent on the text size and device screen size. The message boundaries were correct if the text size is small. The message boundaries were correct in landscape mode, but not in portrait mode if the text size was medium. The message boundaries were incorrect in both landscape and portrait mode if the text size was large.

The text size was in relation to the screen size, so, for example, size 20 text was considered large on a mobile device but small on a tablet.

Affected platforms and/or known devices:

- Android

## EAN bar code returns wrong value

When reading EAN bar codes from right to left, the wrong value was returned. (611783)

Affected platforms and/or known devices:

- Android

## Getting 1 result when expecting 3 bar code results

When using bar code automation, when 3 results were expected, only one result was returned. (611781)

Affected platforms and/or known devices:

- Android

**Workaround:** None.

## Angle guidance always OK for backs of checks

Regardless of the `maxSkewAngle` setting, even when very low (for example zero or some other very small number), the turn guidance always said OK. When set to such low levels, some guidance other than OK was expected. (607371 )

**Note** The `maxSkewAngle` setting worked as expected for the fronts of checks.

Affected platforms and/or known devices:

- Android
- iOS

## Unable to capture image in video mode

Unable to take a picture in video mode if either the `doContinuousMode` or `takePicture` method was used. This was a device specific problem. (593874)

Affected platforms and/or known devices:

- Moto G

## BarcodeReader direction map incorrect

The `kfxKBRBarcodeReader searchDirection` property did not work. This property specified that multiple directions could be combined. However, `top_down` and `right_left` were reversed. (593056)

Affected platforms and/or known devices:

- Android

## BarcodeReader direction map incorrect

The `kfxKBRBarcodeReader searchDirection` property did not work. This property specifies that multiple directions can be combined. However, `top_down` and `right_left` were reversed and, for iOS only, combining two or three bar codes together resulted in a read error. (592986)

Affected platforms and/or known devices:

- iOS

## setTargetFramePaddingPercent after instantiation didn't update the UI

If a `CheckCaptureExperience` was created (`captureExperience = new CheckCaptureExperience(baseCapView, capCriteria)`), and then the padding percent was changed (`capCriteria.getCheckDetectionSettings().setTargetFramePaddingPercent(25);`), the settings were applied to the actual `CheckDetector`. However, the UI was not updated. The frame still appeared to have the original padding. As a result, the check detection algorithm became out of sync with the UI. (590819)

This only happened when updating/setting your `CheckDetectionSettings` after you instantiated your `CheckCaptureExperience`. If the padding percent was changed before the `CheckCaptureExperience` was instantiated, the UI was updated.

This happened when using `CheckCaptureExperienceCriteriaHolder`.

Affected platforms and/or devices:

- Android
- `CheckCaptureExperience`

## Overlapping messages in AnimatedDocumentCaptureExperience

In the Android `AnimatedDocumentCaptureExperience` two message objects may have been displayed at the same time. For example, the `UserInstructionMessage` and the `HoldSteadyMessage`, or the `UserInstructionMessage` and the `PageOrientationMessage`. (583320)

Only one message object at a time should have been displayed. If an additional guidance message popped up, the preceding one should have disappeared.

Affected platforms and/or devices:

- Android

## Different bar code results for same image saved as .jpg or .png

`BarcodeReader` should have yielded the same results from an image, regardless of the file type used to save the image. However, .png and .jpg versions of the identical image may have yielded different results. (571421)

Affected platforms and/or devices:

- iOS

## Returned BarcodeResult bounding box was null for 2D bar codes

After capturing a bar code (PDF 417 or QR) on devices with Android 5.x, the `BarcodeResult` bounding box that was returned was null. This had been observed when running Android 5.x on Nexus 5, 6, 9. Note that there may have been other affected devices, when Android 5.x was used. (568670)

Affected platforms and/or devices:

- Android 5.x

## TotalAgility PhoneGap application didn't build out of the box

The TotalAgility PhoneGap application that comes in the Hybrid folder of the SDK didn't build out of the box. There were linker errors from the `CardIO` framework. (568667)

Affected platforms and/or devices:

- iOS

## NullPointerException after trying to write an image of the same mimetype twice

In PhoneGap, when processing the same image as the same mimetype twice, the following error was generated: `Error! failed to set image - NullPointerException - Image is not a Bitmap.` (566909)

Affected platforms and/or devices:

- Android
- PhoneGap

## Page Detection events received even if camera is set to PageDetect.Off

In PhoneGap, when the page detect value was "off", the app should not have received page detect events, and should have been able to capture even when a page was not detected. However, when the page detect value was set to "off", page detect events were received as though the page detect mode had been set to continuous. (566250)

Affected platforms and/or devices:

- Android
- PhoneGap

## Changing device language while Kofax Mobile Demo is open caused crash

After capturing and submitting a USA DL, while Kofax Mobile Demo was still open, if the device input language was changed it will cause the App to crash when attempting to open the DL component again. (566002)

Affected platforms and/or devices:

- Android

## Page detection events received with PageDetect.Off

In PhoneGap, when the page detect value was set to "off", the app should not have received page detect events, and should have been able to capture even when a page was not detected. However, when the page detect value was set to "off", receive page detect events were received as though the page detect mode was set to continuous. (565961)

Affected platforms and/or devices:

- iOS

## setPageDetectionEnabled(false) did not behave correctly

Setting `setPageDetectionEnabled(false)` should have made the `AnimatedDocumentCaptureExperience` ignore all capture constraints related to page detection. In other words, an image should have still been captured even if the following criteria were set, but never met: "page area", "page long edge threshold", "page short edge threshold", and "detect page orientation". Instead, an image was never captured, and the "Move Closer" message was always shown. (565653)

Affected platforms and/or devices:

- Android

## `_DoRecognizeTextMICR_` affected page detection during processing

`_DoRecognizeTextMICR_` was originally used as a check of the MICR and had no effect on image processing. This was changed in 2.3, which introduced unintended behaviors. For example, in some cases the first characters of the found MICR line were missing. (565539)

Affected platforms and/or devices:

- All

## ImageCaptureView returned incorrect onCameraInitialized events

The application received `onCameraInitialized` events with the status of `CAMERA_USE_VIDEO_FRAME_CHANGED`, even though `setUseVideo()` was not called. It may also have received `onCameraInitialized` events with the status of `CAMERA_IMAGE_RESOLUTION_CHANGED`, even though `setImageResolution()` was not called. This happened if the application started an Intent on top of an Activity and then returned to the original Activity. Although the View was not re-created and the instance of `ImageCaptureView` has not changed, the application always received either `CAMERA_USE_VIDEO_FRAME_CHANGED` or `CAMERA_IMAGE_RESOLUTION_CHANGED` - never both, and never `CAMERA_VIEW_CREATED`. (564537)

Affected platforms and/or devices:

- Android

## Kofax Mobile Demo failed when importing a profile

If a profile was imported into the Kofax Mobile Demo application, the application may have occasionally crashed. (563954)

Affected platforms and/or devices:

- Android
- Kofax Mobile Demo

## KMD crashed after capturing a check front

The check capture experience was not supported on the affected device. (563894)

Affected platforms and/or devices:

- Android
- Motorola Droid 4
- KMD

## Torch icon was not visible

In the KMD application, the torch icon was not visible from the Check Deposit, Driver License, and Passport screens. (563053)

Affected platforms and/or devices:

- Android
- KMD

## AppStats image table logs had incorrect image filesize for bitmaps

If the image processor was set to provide an `IMAGE_REP_BITMAP` or `IMAGE_REP_BOTH`, AppStats recorded the number of pixels in the bitmap for the `fileSize` column of the `ImageProcessorEvent` table. (562475)

AppStats also has an `Image` table with a `fileSize` column. Here, if the image was represented by a bitmap, the `fileSize` will be 0. These two tables should be consistent. The `Image` table in AppStats should log the `fileSize` as the number of pixels in the bitmap for those images that are represented by a bitmap.

Affected platforms and/or devices:

- Android

## Failed to read bar code after dismissing ReadBarcode alert

In PhoneGap, while reading a bar code, if the "Read Barcode" button was tapped, an alert was displayed (BarcodeCaptureControl.addEventList error! Action already in progress). After dismissing this, the bar code could not be read. (562375)

Affected platforms and/or devices:

- Android
- PhoneGap

## Capture view displayed in video mode even after switching to camera mode

In PhoneGap, the Capture view was still displayed in Video mode even after switching from Video mode to Camera mode. (562364)

Affected platforms and/or devices:

- Android

## Failed to process image with IMAGE\_REP\_FILE

The image was not processed when `ProcessedImageRepresent` was set to `IMAGE_REP_FILE`. An image processing error ("The input image object has no active representation for file, Bitmap or both...") was displayed when processing an image when the image representation is set to file. (562335)

Affected platforms and/or devices:

- iOS

## Flash mode ON did not work

In PhoneGap, setting the Flash Mode to ON was not functional (there was no flash even after the mode was changed in Settings). (562331)

Affected platforms and/or devices:

- Android

## Unable to capture bar code second time after launch

In the PhoneGap sample application, after capturing a bar code the first time, if the user pressed the back button and then tried to capture the bar code again, the application was not able to capture it the second time. (562319)

Affected platforms and/or devices:

- Android

## setGPSUsageLimits = neverUse only worked if location permissions are removed

In the SDK, there was a method that allowed the user to set the GPS usage for the image capture control off: `com.kofax.kmc.kui.uicontrols.ImageCaptureView.setGpsUsage(GpsUsageLimits limits)`. The `neverUse` functionality only worked if `<uses-permission android:name="android.permission.ACCESS_FINE_LOCATION"/>` was taken out of the manifest. (561943)

Affected platforms and/or devices:

- Android

## Relative area ratio must be approximately 20 or higher

When the Android relative area ratio functions (`setPageAreaForDetection` or `setPageAreaThreshold`) were set to a low value, such as 5, the application should have fired off a page detection event and/or capture when the page occupies at least 5 percent of the view. However, this did not happen. If these values were higher than 20, the `pageDetected` event \ fired and the image was captured as expected. (561722)

Affected platforms and/or devices:

- Android

## User instructions centered despite different x and y coordinates

When using the Android `AnimatedDocumentCaptureExperience`, you can construct a variety of messages and user instructions. When using the `UserInstructionMessage`, the text was always set in the exact center of the screen, regardless of the specified x and y coordinates. (560849)

Affected platforms and/or devices:

- Android

## Delayed continuous focus stuck in an unfocused state

When using the Check Deposit module of the KMD app, the capture control would occasionally get stuck in a state where unfocused images were consistently captured. (559532)

Affected platforms and/or devices:

- Android
- Samsung S5

## Default messages rotated incorrectly

When using the Check Capture experience or the Animated Capture Experience, the default capture message was initially rotated correctly when the phone is held in the original orientation and 90 degrees to the left. But when the phone was rotated 90 degrees to the right, the message was displayed upside down. (559370)

Affected platforms and/or devices:

- iOS

## Viewfinder was black when torch was on in a different app

If the torch was turned on in a different application, and the Kofax Mobile Demo application was then launched while the torch was still on, the viewfinder would have been black.(558804)

Affected platforms and/or devices:

- Android

## GPS settings not recorded on iOS8

If you enabled Location Services, in order to capture GPS information in the image header, the following needed to be added to your application's `info.plist` beginning with iOS 8: (557861)

- One of these keys:

`NSLocationWhenInUseUsageDescription` or `NSLocationAlwaysUsageDescription`

- For the associated key value, include a message string that the user will see when the permission popup appears.

Affected platforms and/or devices:

- iOS 8

## Could not upgrade database from 2.1 into the schema for 2.2

In AppStats, an error ( KMC\_UT\_CREATE\_DB\_FAILED) was generated when attempting to upgrade the AppStats database from SDK version 2.1 into the 2.2 schema. (403458)

This only happened if the SQL Database had exported/written the AppStats data via:

```
(int)writeToFile
```

or:

```
(int) export: (NSString *) exportFilePath  
withFormat: (KUTappStatsExportFormat)exportFormat
```

Affected platforms and/or devices:

- iOS

## Writing AppStats data to file may have caused issues

To avoid possible synchronization issues, it was necessary to turn AppStats off before writing the data to a file. (376049)

Affected platforms and/or devices:

- Android

## Could not download document type to illegal character in shortcut name

If an & (ampersand) was used in the name of a shortcut in the Administration console, the `getIndexFields` failed to download. Instead, a `kfxLibUtilities: Error Code: 0x301C` error was returned. (366967)

Affected platforms and/or devices:

- iOS

## MICR/Signature not detected on clear image

When a clear image was captured, the MICR or the signature may not have been detected and error was thrown. This was a random issue. (360700)

Affected platforms and/or devices:

- iOS
- Android

## Flash fired continuously on some devices

After abruptly switching from a dark to light environment (such as picking the tablet up from a table), the flash fired repeatedly, resulting in a washed out image. This happened when the flash was set to "Auto". (345226)

If the user moved the device, the flash would pause. As soon as the device was stable again, the flash resumed firing, which made it almost impossible to take a properly exposed image.

Affected platforms and/or devices:

- Android
- Samsung S4
- Samsung S3

## iOS: unfocused images captured despite the camera reporting focused

It was possible to capture an out of focus image with the Image Capture Control even though the camera reported that the lens was focused. This normally happened when page detect was set to automatic or continuous and when all the stability/levelness settings were satisfied, but the camera physically could not focus because the lens was too close to the document. Despite this, eventually the camera incorrectly reported that it was focused. If the user then gently moved the device far enough away from the document for it to normally be able to focus, the resulting image was still out of focus. In order for this to happen, the device must have been moved gently enough that the settings were continuously satisfied. If the settings were exceeded, even if just for an instant, the camera refocused at the new distance. (343400)

Affected platforms and/or devices:

- iOS

## Some devices captured full size images in video mode

On some devices, using `takePicture` while in video mode resulted in capturing a full size image. (324939)

Affected platforms and/or devices:

- Android

The following devices were known to exhibit this behavior. There may be others.

- HTC One
- LG G Pad 8.3
- Nexus 10
- Samsung Mega
- Samsung S3

## Nexus 10: flash did not work in capture mode

On the Nexus 10, when in capture mode with the flash setting on, the flash did not fire. (324897)

Affected platforms and/or devices:

- Android
- Nexus 10

## Could not use flash on certain Samsung devices

During image capture with the flash enabled, the level indicator froze and the image capture view was sluggish. (324740)

Affected platforms and/or devices:

- Android
- Samsung 12.2
- Samsung Note 10.1

## returnCameraEvents method

The SDK contains a returnCameraEvents method that must be set to True in order for an app to take advantage of page detect, levelness and stability threshold events. If this value was left at the default or set to False, these threshold events are not returned. iOS was missing this method. (324720)

Affected platforms and/or devices:

- Android
- iOS

## Tilt Not required in image capture control

On Android devices, while in continuous capture mode, before recapturing an image, the user should have been required to tilt the device away from level to reset the levelness and stability thresholds. This was not happening, resulting in a continuous stream of images. (324703)

Affected platforms and/or devices:

- Android

## Cannot capture back side of check

When using a LenovoYoga, an app may not have been able to capture the backside of certain checks. The issue occurred when a check did not have enough data on it for the LenovoYoga camera to focus successfully. (324517)

Affected platforms and/or devices:

- Android
- LenovoYoga

## Quick Analysis did not consistently indicate blurred images

When requesting a quick analysis with the image processor API, the app may or may not have requested a reference image. When requesting a quick analysis without an image, the "blurry" setting was missed, and consequently the Quick Analysis Results object was not correctly set up. (323424)

Affected platforms and/or devices:

- iOS

## In video mode, LED inconsistent across devices

During Capture with Video Mode On and Flash On, there was inconsistent flash lamp behavior across devices. For some devices the lamp was on and for other devices, the lamp was off. (322722)

Affected platforms and/or devices:

- Android

## Android applications crash with invalid license

Attempting to run an Android application without a valid license caused the app to crash. (322330)

Affected platforms and/or devices:

- Android

## Race condition caused iPhones to crash

A race condition occurred during bar code capture when removing the bar code control from view. This most frequently caused the iPhone 4 with iOS 7.1 to crash. However, in rare instances, this may have also been seen on newer iPhones and older versions of iOS. (316394)

Affected platforms and/or devices:

- iPhone
- iOS

## BankRight: selecting certain bar code types

When scanning for bar codes on the back of a driver license, the app occasionally inappropriately recognized Code 39 bar codes. When this happened, no data was returned from the bar code. (307667)

Affected platforms and/or devices:

- Android
- BankRight

## Pressing BankRight back button caused login failure

If the Back button was repeatedly pressed immediately after the Check Deposit viewer screen appeared, the app failed to log out of the server after returning to the Welcome screen. This made it impossible to log in again. (307433)

Affected platforms and/or devices:

- Android
- BankRight

## BankRight: unable to capture multiple driver licenses

Capturing the front of a driver license, selecting Use, and then navigating back to the Home screen caused the app to crash if you immediately tried to capture the next image. (307418)

Affected platforms and/or devices:

- iOS
- iPhone 4
- BankRight

## Asus transformer camera feed not centered

Asus Transformer tablets (where landscape mode is the natural orientation) exhibited a problem where the camera view appeared off center in the tablet screen. (306608)

Affected platforms and/or devices:

- Android
- Asus Transformer

## Motorola MotoX sensor handling

There is a hardware compatibility issue for level detection when using the SKD ImageCaptureView class with the Motorola Moto X. When creating an App for this device, use the setMotionSensorType API method to bypass this compatibility issue. (293678)

Usage example:

```
((ImageCaptureView) preview).setMotionSensorType(MotionSensorType.RAW); // to force use raw sensors (accelerometer and magnetic sensors) for motion detect.
```

**Note** This API method is only supported for this device, do not use with other devices.

Affected platforms and/or devices:

- Android
- Motorola Moto X

## MICR data extracted from image with no MICR line

MICR data was returned in metadata when processing an image without a MICR line. (283904)

Affected platforms and/or devices:

- Android
- BankRight

## Unable to select certain cases from case list

If a personal shortcut was configured in KFS 4.0.1, cases in the mobile application could not be selected if they followed the personal shortcut in the list of cases. Also, that shortcut was visible to all members of the same group. (00116929, 24069)

Affected platforms and/or devices:

- iOS

## Review image screen didn't appear when review is ON

The Review Image screen didn't appear even though Review was set to ON but Auto-processing and Quality Feedback were both OFF. (00116621, 23839)

When auto-processing and image quality feedback are OFF and review image is ON, after selecting a document from the camera roll or after capturing a document from the camera source, the review image was shown briefly and was then automatically dismissed without giving the user a chance to review the image.

Affected platforms and/or devices:

- iOS

## Use Kofax server switch blocked custom URL

This issue occurred when an application was launched using a custom URL and the "Use Kofax Server" setting is also "ON." Under these conditions, the application ignored the login credentials in the custom URL. (23765)

Affected platforms and/or devices:

- iOS KMC Library

## Multiple deprecation errors while compiling for iPad2

Developers were likely to see numerous deprecation errors when using XCode to compile the application for iPad2. (00116376, 24475)

Affected platforms and/or devices:

- iOS Sample Apps

## Some Android models may have had imaging issues

In some cases, pictures taken with some Android phone models may have had poor resolution. (00112259, 23875, 00115464, 24314)

Affected platforms and/or devices:

- Android

## Known issues

This section contains information about potential problems that you could encounter while using the SDK. Workarounds are provided as applicable.

### Selfie capture only works with native capture

In HTML5 OnBoarding, when Advanced Capture is selected in the settings screen, and after authentication results in PASS/Attention, the camera for the selfie capture flow becomes unavailable. (1113213)

Affected platforms and/or known devices:

- HTML5

**Workaround:** Use the native camera for selfie capture.

### PackagedCaptureExperience will crash after capture

This is a known issue with the `PackagedCaptureExperience` and Android version 4.4.2. The `PackagedCaptureExperience` will crash after capturing bills, IDs, or passports. (1113104)

Affected platforms and/or known devices:

- Android version 4.4.2

**Workaround:** Use other versions of Android when capturing the affected document types.

### KMD - Cannot build with latest Gradle

When building the KMD application in Android Studio, if you are using the latest Gradle setting, the application will fail to build. (1107158)

Affected platforms and/or known devices:

- Kofax Mobile Demo

**Workaround:** In order to build the app, you must navigate to the `build.gradle` file and change the version as follows:

```
dependencies {  
    classpath 'com.android.tools.build:gradle:2.3.3'  
    classpath 'com.google.gms:google-services:3.0.0'  
    classpath 'io.fabric.tools:gradle:1.23.0'  
}
```

### SDK Guidance messages are not appearing

There are open issues with Chrome 64.0.3282.137 that cause incompatibility with the HTML advanced capture feature. (1106451)

Affected platforms and/or known devices:

- HTML5
- Android with Chrome version 64.0.3282.137.

**Workaround:** We recommend to use native capture on Chrome version 64.0.3282.137 and higher until this issue is resolved in Chrome.

## Documentation is unclear about credit card extraction support

The SDK Admin guide is unclear regarding support for credit card extraction. The Mobile SDK only supports on-device credit card extraction for embossed cards using Card.io. Extraction for non-embossed cards is not supported on device. (962670)

Affected platforms and/or known devices:

- Mobile SDK

**Workaround:** None.

## Info.plist is missing Camera Usage permission

When the KTAConnect app tries to open the camera on a iOS 10.x device, the camera will never load. The dev console will report that the Photo Library Usage is missing. (899136)

Affected platforms and/or known devices:

- KTA Connect
- iOS 10.x

**Workaround:** Updated the Info.plist (KTAConnect.plist) with the Photo Library Usage permission and rebuild the app.

## Download Model button is disabled in Settings screen

This application has a known issue where the user is unable to select the UI to download the model file. (897249)

Affected platforms and/or known devices:

- Standalone ODE Application

**Workaround:** None.

## ID card thumbnails may be blank

When an IDCard is extracted, sometimes there is no thumbnail image for the ID in the results screen. Tap on the thumbnail does not resolve the issue. (895545)

Affected platforms and/or known devices:

- HTML5 onboarding

**Workaround:** Try again, the blank thumbnail problem is intermittent.

## Preview image oversaturated

When we capture an image using the SDK camera (Advance capture ON) the preview of the captured image has increased color intensity. This does not appear to be the case when using native camera (Advance capture OFF). The increased saturation may impact extraction for dark documents (896067)

Affected platforms and/or known devices:

- HTML5 onboarding
- Samsung Galaxy Note 5

**Workaround:** Try again, the blank thumbnail problem is intermittent.

## Possible crash with `CaptureExperience` and `ImageCaptureView.addOnImageCapturedListener()`

If an application uses `ImageCapturedListener` (via `ImageCaptureView.addOnImageCapturedListener()`) along with the `CaptureExperience` API the the application may crash due to a race condition. In some cases the `CaptureExperience` API and the application's listener process the same event in parallel. If the `CaptureExperience` happens to first there is no problem. But if the application listener happens to be first and then quickly clears the captured image bitmap, the application will crash. (891187)

Affected platforms and/or known devices:

- Android

**Workaround:** If possible, ensure the `Capture Experience` is first.

## Bad cropping on image captured from SDK camera

When a drive license is captured from camera, the image is not cropped properly when default settings are used. This is because the camera configuration manager is selecting different aspect ratios for the picture size and the preview size.(893052)

Affected platforms and/or known devices:

- Android ASUS\_Z00XS
- iOS 5.0
- Possible other devices and OS versions.

**Workaround:** None.

## Truncated MRZ values are returned

When extracting an image with truncated MRZ field data, the fields are not replaced with the corresponding OCR value. Instead the truncated MRZ values are returned along with a confidence of 0.2, which means "0.2 - an MRZ value where the checksum does not match or the checksum does not exist." This is not the correct confidence definition, and the extracted values should come from OCR not MRZ. (886562, 886563)

Affected platforms and/or known devices:

- Android
- iOS

**Workaround:** None.

## Nationality is extracted incorrectly for German ID

All IDs/DLs with Nationality in the MRZ data are subject to an issue where the returned MRZ value for nationality is not the full name, or the standard 3 digit abbreviation. In a future release we plan to add a lookup table to return the full name. For example, German ID Front 1995 should return "DEUTSCH" or "DEU" for nationality. At the moment we are only receiving "D" as the Nationality. (864927,864920)

Affected platforms and/or known devices:

- Android
- iOS

**Workaround:** None.

## Target frame cropping is incorrect

Target frame cropping is incorrect if the target frame is off-center. All the CaptureExperience classes have a way to change the center point of the target frame. If this is done, the target frame cropping (both for image processor and quick analysis) will be incorrect. (836618)

Affected platforms and/or known devices:

- Android

**Workaround:** Do not modify the center point of the target frame.

## Extraction results for a number of ID fields are poor

For supported ID types and field extracted for each type, please refer to the *Kofax Mobile ID Capture Capture 2.x Administrator's Guide*. The following notes are applicable when both the front and back of IDs are sent for extraction, when supported.

### **Argentina (800138)**

- Address fields extraction for ID is poor.
- Address fields extraction for DL is low.

### **Brazil (800140)**

- Extraction accuracy for CPF, DateOfBirth, FatherName, MiddleName, LastName and MotherName are poor for Brazil DL.
- Extraction accuracy for FirstLicense, FirstName, License, NumberRegistered are low for Brazil DL.

### **India (800143)**

Extraction accuracy for MiddleName in PAN cards is low.

### **Mexico (800144)**

- Extraction accuracy for expiration date, LastName, is low for Federal District.
- Extraction accuracy for IDNumber is poor for Federal District.
- Extraction accuracy for Address fields for National Electoral card is poor.
- Extraction accuracy of City field for National Electoral card is poor.
- Extraction accuracy for MiddleName, Lastname, for Mexico State DL is low.
- Extraction accuracy for Period for Mexico State DL is poor.

### **Poland (800147)**

- Address fields, IDNumber low for Polish ID.
- IssuingAuthority, MiddleName poor for Polish ID.
- Address fields, MiddleName low for Polish DL.
- ExpirationDate, IssuingAuthority are poor for Polish DL.

## **Android UnifiedServer: Concurrent extraction not working**

ServerExtractor on Android will not support concurrent extraction. (799475).

Affected platforms and/or known devices:

- Android ServerExtractor

**Workaround:** None.

## **MICR detection regression for PNG type.**

Using the PNG file format with checks may lower the ability to detect MICRs on the check front. (798960).

Affected platforms and/or known devices:

- iOS

**Workaround:** Use JPG for the front images of checks.

## **Failed to select iCloud images from gallery**

When photos from iCloud are synced in device with "Optimize Storage" set to ON. When this happens, the iCloud image will be stored as thumbnail. You can see the thumbnail but can't select and use the image in the app. (763536)

Affected platforms and/or known devices:

- iOS

**Workaround:** None.

## Mexico Tamaulipas DL back: last and middle names not parsed correctly from bar code

When extracting last and middle names from the bar code on the back to the Tamaulipas driver license, the names are not parsed correctly. (755948)

Affected platforms and/or known devices:

- iOS

**Workaround:** None.

## ImageProcessor crashes with color TIFF files

When trying to process a color TIFF file, the ImageProcessor crashes when the host device is running iOS 10 and iOS 10.0.1. iOS versions 10.2.0 and newer do not exhibit this issue. (722209)

Affected platforms and/or known devices:

- Kofax Mobile SDK

**Workaround:** Avoid using color TIFF files.

## Compiling issues when integrating CocoaPods

When integrating the Kofax Mobile SDK with CocoaPods (v1.0.1 or newer), the code will not compile, as it can't resolve some SDK header files.

Or, when integrating the Kofax Mobile SDK with CocoaPods, the code will not compile, and reports validation errors related to the Kofax Mobile on a POD that doesn't even use the SDK. (750473)

**Workaround for the header files issue:**

This can be a problem when the main project does not use the SDK framework, only a specific POD. In this case, assuming that this specific POD contains MobileSDK at the following path: /<POD\_ROOT>/<POD\_NAME>/Frameworks/MobileSDK.framework, the podspec file of that POD needs to be adjusted using the HEADER\_SEARCH\_PATH, to resolve the framework files correctly.

For example:

```
s.xcconfig = {'CLANG_ALLOW_NON_MODULAR_INCLUDES_IN_FRAMEWORK_MODULES' => 'YES',
'HEADER_SEARCH_PATHS' => "#{Shellwords.escape(File.join(File.dirname(__FILE__),
'<POD_NAME>
/Frameworks/MobileSDK.framework/Headers')) + '
${PODS_ROOT}/<POD_NAME>/<POD_NAME>/Frameworks/MobileSDK.framework/Headers
${PODS_ROOT}/../<POD_NAME>/Frameworks/MobileSDK.framework/Headers
${PODS_ROOT}/Headers/Public/<POD_NAME>/MobileSDK'}" }
```

**Workaround 2 for the header files issue:**

When having multiple PODs referencing each other, this can be a problem. The POD header files, referencing the mobile framework, should be private header files. If those header files are public, and another POD is referencing them, the Mobile SDK framework should be copied into that POD as well.

## Nexus 5X flashes when autotorch is turned off

When initiating a capture on the Nexus 5X, the torch turns on briefly before turning off even though the camera settings have autotorch turned off. (732453)

Affected platforms and/or known devices:

- Android
- Nexus 5

**Workaround:** None.

## Extraction not working on Samsung S3

Extraction not working Samsung S3 when using Phone Gap. (717395)

Affected platforms and/or known devices:

- Android 4.3 or less
- Samsung S3
- Sony Xperia Tab Z

**Workaround:** Upgrade Android to a version greater than 4.3.

## Attachment is empty in email draft

The attachment appears empty when the sending an email using Image Representation - > IMAGE\_REP\_FILE/BOTH & Mode: BW/color/gray & with Scale(dpi)=400/300/200/no . (717384)

Affected platforms and/or known devices:

- iOS 9.3.2
- iPadPro

**Workaround:** None.

## ODE bar code extractor returns no error or data

The ODE kfxKOEIDExtractor returns no error and no data for some bar code images. (712709)

- iOS

**Workaround:** None.

## setRequestTimeout defaults to 8

When the server is unavailable, the connection timeout could fire earlier than the value specified with setRequestTimeout (or the default value, which is 10 sec). (710107)

More information is available at:

- <https://devforums.apple.com/thread/25282?start=0&tstart=0>

- <http://stackoverflow.com/questions/34991795/nsurlsession-setting-request-time-out-75-seconds-server-unreachable>

Affected platforms and/or known devices:

- iOS (all versions and devices)

**Workaround:** None.

## Vibrate function causes blurred pictures

The vibrate function sometimes causes pictures to turn out blurry. The default settings cause the phone vibrate when a picture is being taken. Sometimes this shakes the camera as it captures the image, leading to blur. Testing with the HTC One A9 showed more blur than with the Moto X. (692792)

Affected platforms and/or known devices:

- Android
- HTC One A9
- Moto X
- Possible others

**Workaround:** If possible, disable the default vibration.

## Mobile ID images not properly cropped

Some ID images are not cropped properly. Such images tend to be low contrast images, or images on backgrounds with noticeable noise. (689797):

Affected platforms and/or known devices:

- HTML

**Workaround:** Ensure that images have good contrast and low noise.

## Not able to see preview of captured image

When using certain unsupported versions of Safari , image previews will not be displayed (689019).

The supported browsers for iPhone and iPad which can load the captured image (either from the gallery or the native camera) into the image blob are Safari 7.1, 8.4, 9.0.

Safari 8.1.x has a limitation where the captured image size should be less than 1MB. On Safari 8.1.x, if the captured image size is more than 1MB, it will not work for some devices such as iPhone4s (OS:8.1.2) and iPadAir2(OS 8.1). In such cases, the user will not be able to see a preview of the captured image.

Affected platforms and/or known devices:

- iOS 8.1
- Safari 8.1.x

**Workaround:** None.

## KTA connect mobile capture won't load

KTA 7.2.2 does not refer to the correct location for the Cordova 5.4 javascript files, consequently KTA Connect Mobile Capture won't load. (680069)

KTA does not include the latest Cordova 5.4 javascript files, so the SDK project includes the required files along with instructions to copy the files to the correct location. However, the latest version of KTA 7.2.2 looks in the wrong location for the 5.4 Cordova files. As a result, the KTA Connect app will fail to load the Mobile Capture control.

Affected platforms and/or known devices:

- SDK

**Workaround:** The steps in the *Kofax Mobile SDK Developer's Guide* instruct the administrator to copy the files to the "5.4" folder. This will work correctly for KTA 7.2.0.1, but once the software is updated to KTA 7.2.2, this will break. The easiest workaround is to make a second copy of the "5.4" folder and rename it "5\_4".

## White image when the Flash is on

When using the flash on the TC70 you may get a very bright and white image when the flash is on. (676057)

Affected platforms and/or known devices:

- Android
- TC70

**Workaround:** None.

## Demo crashes when gallery icon is tapped

If the Gallery app is disabled in device settings, the Kofax Mobile Demo application will crash if the user taps the icon in the camera view that opens the gallery. (673877)

Affected platforms and/or known devices:

- Android 6
- Nexus 5

**Workaround:** None.

## Samsung S4 slow to return ID extraction results

The Samsung S4 takes significantly longer than other devices to do on-device extraction. (672075)

Affected platforms and/or known devices:

- Samsung S4

**Workaround:** None.

## Distorted thumbnails in HTML5 sample app

When using the HTML 5 sample application, thumbnails of captured documents appear normal upon initial viewing, but may become distorted on subsequent viewings. (670606)

Affected platforms and/or known devices:

- iOS 8.1

**Workaround:** None.

## Frequent reloaded alerts while using HTML5 sample app

When using the HTML 5 sample application, the application frequently has to reload the current page. The issue occurs in Safari when the app captures a photo via the `<input>` tag. (668228)

Affected platforms and/or known devices:

- iOS 8.1. to 8.3
- Safari Browser

**Workaround:** Clear the device cache and try again.

## Cannot capture image with HTML 5

When using HTML 5 on the S4 Mini, the mobile device is not able to capture via the native camera when using Chrome version 46. (663283)

Affected platforms and/or known devices:

- Android
- HTML5
- Samsung Galaxy S4 Mini

**Workaround:** None.

## Talk Back doesn't work in credit card viewfinder screen

In the KMD application, the Credit Card viewfinder screen, the "Hold card here" prompt is not vocalized. This is a third party bug. (654589)

Affected platforms and/or known devices:

- Android

**Workaround:** None.

## Viewfinder turns black

In the HTML5 sample application, the view finder may display a black screen after completing a single end to end transaction (from capture to submit). (651234)

Affected platforms and/or known devices:

- HTML5
- iOS 8.1.2
- iPhone 4S

**Workaround:** Even though the view screen is black you can still capture an image by pressing the force capture button, and then tapping Retake.

## Browser not responding if native camera is disabled

In HTML5 capture, if the user attempts to capture a document when camera access is disabled, clicking "Allow", the browser becomes unresponsive and may crash without displaying an error. (648726)

Affected platforms and/or known devices:

- HTML5
- Android 6.0.1
- Nexus 6

**Workaround:** None

## Missing class in API reference guide

Due to a bug in Doxygen, where duplicate class names are not properly processed. (640454)

Affected platforms and/or known devices:

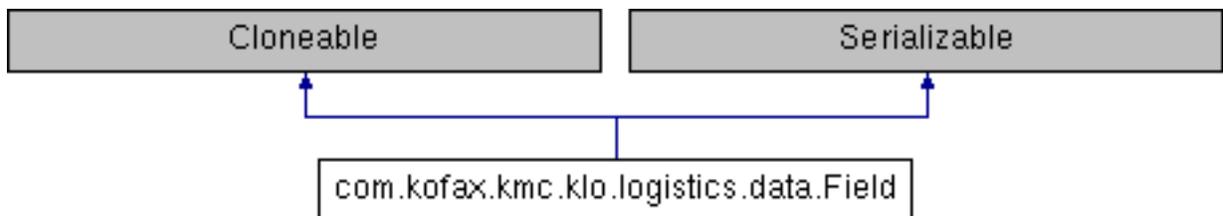
- API Reference Guide for Android

**Workaround:** None. Refer to the following information:

### **com.kofax.kmc.klo.logistics.data.Field Class Reference**

The **Field** object is instantiated using a particular **FieldType** object and contains a value which conforms to that **Field** Type. This object is serializable.

Inheritance diagram for com.kofax.kmc.klo.logistics.data.Field:



**Public Member Functions**

Field	clone () Performs a field-for-field copy of instances of this class. Field (FieldType fieldType) The default Constructor creates an empty Field object and initializes all parameters with default values.
FieldType	getFieldType () Gets the FieldType object associated with this Field.
void	setValue (String value) Sets the value to the Field Object entered by the user, or extracted from an image.
String	getValue () Gets the value of Field Object.
void	setValid (Boolean isValid) Sets flag to indicate if field-level validation or field-level scripting failed.
Boolean	isValid () Gets the flag to determine field-level validation or field-level scripting failed.
void	setErrorDescription (String errorDescription) Sets the error description when the field validation rule fails for field-level scripting or RTTI validation.
String	getErrorDescription () Gets the error description when a field validation rule fails.
void	setTag (String tag) Sets tag string to the Field Object.
String	getTag () Gets tag string from the Field Object.
void	updateFieldProperties (String value, boolean isValid, String errorDescription) Sets multiple properties for the Field Object at one time.

**Packaged Capture Experience: extraction cannot be completed**

When using the Packaged Capture experience to capture the back of a check, an error message is thrown: "The operation cannot be completed.(NSURLErrorDomain error -1202)". (636095)

Affected platforms and/or known devices:

- iOS6

**Workaround:** None. Packaged Capture Experience cannot be used with iOS6.

**BarcodeCaptureView**

The behavior for this method has changed when capturing multiple bar codes. Now, readBarcode() has to be called again in order to read additional bar codes. See the API reference guide for details. (635412)

Affected platforms and/or known devices:

- Android

**Workaround:** None.

## Bar Code Extraction not working

In the Packaged Capture Experience, when trying to capture a bar code, and send it to RTTI or KTA, if you try to do the extraction without also sending the front-side ID image (other than setting the side to BACK), you may receive null extraction results. (633864)

Affected platforms and/or known devices:

- iOS
- Packaged Capture API

**Workaround:** None.

## Bar Code Extraction not working

In the Packaged Capture Experience, when trying to capture a bar code, and send it to RTTI or KTA, if you try to do the extraction without also sending the front-side ID image (other than setting the side to BACK), you may receive null extraction results. (632983)

Affected platforms and/or known devices:

- Android
- Packaged Capture API

**Workaround:** None.

## Memory warnings in log

When using the Document Capture Experience on an affected device, the user may experience memory issues. (631716)

Affected platforms and/or known devices:

- iOS
- iPhone 4s

**Workaround:** None.

## KMD crashes after multiple retakes

When using xCode's profiler, you may sometimes encounter crashes when KMD is run on the iPhone 4s. When this happens, typically the application will slow down dramatically before crashing. (631141)

Affected platforms and/or known devices:

- iOS
- iPhone 4s

**Workaround:** None.

## PhoneGap app crashes when processing a large gallery image

The PhoneGap application crashes when a large image (approximately 18MB) is loaded and processed from the gallery. (630332)

Affected platforms and/or known devices:

- iOS
- iPhone 4s

**Workaround:** Avoid loading and processing large images from the gallery.

## Fatal Signal 11 on capture and retake

On Capture and Retake (Uniform Guidance), the application crashes with Fatal Signal 11. (628132)

Affected platforms and/or known devices:

- Android
- Samsung SIII Mini

**Workaround:** Develop with different device if you run into this issue.

## Packaged Capture API: access denied

You may get an access denied error during extraction if you use the limited user session ID in the extraction parameters. (628092)

**Note** Only certain APIs allow use of the limited user session ID.

Affected platforms and/or known devices:

- iOS

**Workaround:** None

## Galaxy S3 mini has trouble capturing check backs

The Samsung Galaxy S3 mini may have trouble capturing check backs in certain situations in video mode, such as with a light check back on a white board, or when there is significant glare. This happens because the highest supported resolution for this device is 1280x720. The problems do not occur in image mode. (626921)

Affected platforms and/or known devices:

- Android
- Samsung Galaxy mini

**Workaround:** Use image mode with this device.

## Cannot use custom component with TotalAgility

In this release Kofax Mobile Demo does not support the custom component with TotalAgility integration . (619699)

Affected platforms and/or known devices:

- Android
- iOS
- Kofax Mobile Demo

**Workaround:** None.

## Visibility setting for instruction message ignored

After setting the user instruction message (fill viewable area), to invisible, the message will still show up. (614559)

Affected platforms and/or known devices:

- Android

**Workaround:** To make the user instruction message effectively invisible, set the message property to an empty string.

## Page detect thresholds now based off static frame

The page detect thresholds are now being calculated off the static frame. In past releases, they were based off of the entire capture view. This change does not apply to iOS, which still bases the calculation on the entire capture view. (614546)

Affected platforms and/or known devices:

- Android

**Workaround:** None.

## Tap to focus is not supported

Tap to focus is not supported on the Samsung S5 because the device uses continuous video mode. Attempting to use "tap to focus" will stop focusing and cause it to be reset every 2 seconds. (613606)

Affected platforms and/or known devices:

- Android
- Samsung S5

**Workaround:** None.

## Message not clipped correctly in portrait mode

In some devices, the instruction message is not the clipped correctly when the device screen is in portrait mode. This does not happen when the phone is rotated so that the screen is in portrait mode. (611787)

**Note** This issue is dependent on the text size and device screen size. The message boundaries are correct if the text size is small. The message boundaries are correct in landscape mode, but not in portrait mode if the text size is medium. The message boundaries are incorrect in both landscape and portrait mode if the text size is large.

The text size is in relation to the screen size, so, for example, size 20 text is considered large on a mobile device but small on a tablet.

Affected platforms and/or known devices:

- Android

**Workaround:** None.

## Colors are shifted for TIFF images on iOS8.3

Processing images to colored tiffs on iOS 8.3 will result in incorrect colors. The SDK contains code that generates TIFF images in a JPEG compressed YCbCr format. The resulting files conform to TIFF specifications, and the images check out OK with an online TIFF header/viewer. Prior to iOS 8.3, the images displayed properly when reading in with [UIImage imageWithContentsOfFile]. With 8.3, the colors are reversed (BGR instead of RGB). This bug has been reported to Apple. (609601 )

Affected platforms and/or known devices:

- iOS

**Workaround:** Avoid using TIFF images.

## Processed image is inappropriately deskewed

The processed image is deskewed even though auto deskew is disabled when auto rotate is enabled. If you are going to use auto rotate it is recommended that you enable deskew. (608615 )

Affected platforms and/or known devices:

- iOS

**Workaround:** None.

## Flash keeps cycling on/off every second

On some devices, the flash keeps cycling on and off every second before the image is captured. For these devices, the flash is being used to aid auto-focus and, depending on the diver, may be normal behavior. See the Android Developer guide for details. (607732 )

Affected platforms and/or known devices:

- Android

**Workaround:** None.

## Shaky circle and target while capturing

The circle and target will keep shaking, even when the device is steady. This can make it difficult to capture, especially when using the default stability settings. (596444)

Affected platforms and/or known devices:

- Moto G
- Amazon Kindle Fire HDX 8.9

**Workaround:** Force capture the images or lower the stability threshold to something like 65.

## Unable to capture document with default page area threshold setting on certain devices

When using certain devices, the aspect ratio of the screen makes it difficult to meet the page area threshold. This depends on the page area threshold setting. For example, if the page area threshold is set to 55% when using the Kindle Fire tablet, it is almost impossible to fit a standard sized document within the on screen guides and fill more than 50% of the preview area. Consequently, the image cannot be automatically captured. (591441)

Affected platforms and/or known devices:

- Kindle Fire
- Sony Tablet Z
- Samsung Galaxy Tab S 8.4"

**Workaround:** Lower the page area threshold as needed to enable capture.

## checkCaptureExperience should not be used in image mode

The SDK doesn't allow an application to set the preview resolution. Because of this, on certain devices, if the `checkCaptureExperience` is used in image mode, the captured images are cut off. This occurs even though the default resolution for captured images is higher than 1080p, because the preview resolution is too low. (591091)

Affected platforms and/or devices:

- Android

**Workaround:** Always use the `checkCaptureExperience` in video mode.

## Application crashes when trying to register device

Registering the device with a server causes the application to crash. (589670)

Affected platforms and/or devices:

- Android 5.x
- HTC One M8

**Workaround:** None.

## Highlight feature unsupported for ID and passport

The Highlight functionality is not currently supported for Passport or ID. (578481)

Affected platforms and/or devices:

- Android 5.x
- Kofax Mobile Demo

**Workaround:** None.

## When image processing fails to write to file, it fails silently

In iOS, if the user configures the image processor to write to file after processing, and then specifies a file path that does not exist, the image processor will fail when attempting to write but will not notify the user. (566919)

Affected platforms and/or devices:

- iOS

**Workaround:** None.

## Kofax Mobile Demo Returns yyyy/mm/dd format, not device's format

When a device is set to the Regional date format, the Kofax Mobile Demo App should return the date format base on the device input settings. However for Nexus devices, Kofax Mobile Demo always return yyyy/mm/dd format even when the device is set to the Regional format. (566000)

Affected platforms and/or devices:

- Android
- Nexus 5, 6, 7

**Workaround:** None.

## Driver license extraction fails for front only regions

In Kofax Mobile Demo, when extracting a driver license, for front only regions, there are occasions where extraction does not occur. No alert message is shown. (565856)

Affected platforms and/or devices:

- Android
- Samsung Galaxy Note
- HTC Thunder Bolt
- Motorola Moto Razzr Maxx

**Workaround:** Set Kofax Mobile Demo to default to a higher resolution.

## Calling `setPageDetectMode()` causes `CheckCaptureExperience` to freeze sporadically

If `setPageDetectMode` is called on an `ImageCaptureView` that's registered to the `CheckCaptureExperience`, and then the user starts capturing checks, the `CheckCaptureExperience` will freeze up sporadically. When it freezes up, there is no guidance and you can't use any navigation in your application. (565648)

Affected platforms and/or devices:

- Android

**Workaround:** Restart the application.

## Android: level indicator switched phases rapidly

On the Motorola Moto G, the level indicator rapidly switched between states. (322233,564550)

Affected platforms and/or devices:

- Android
- Moto G

## Captured image is cropped

When using the `ImageCaptureView`, the captured image is cropped. This is seen only in image capture mode and not video capture. This happens with the following image resolutions: 2048x1536 and 2592x1944 (default). (564331)

Affected platforms and/or devices:

- Android
- Lenovo Vibe Z2 Pro

**Workaround:** Change to a different resolution.

## MICR not detected in local validation

In the Kofax Mobile Demo application, when Check Validation is done locally, the "MICR not found" alert sometimes appears. As a result, the check is not usable. This issue is not observed when validation is done using via the server. (565392)

Affected platforms and/or devices:

- Android
- Samsung S2

**Workaround:** None.

## Default camera settings are not restored after tapping reset

The Kofax Mobile Demo application fails to restore the default settings when performing a Reset. This is observed in the camera settings for all modules. (564956)

Affected platforms and/or devices:

- Android
- Kofax Mobile Demo

**Workaround:** None.

## Use and retake can be used before receiving quick analysis feedback

The Kofax Mobile Demo application allows the user to tap the Use and Retake buttons before the Quick Analysis feedback pop-up has been displayed. In the case of the Retake button, the Quick Analysis feedback pop-up appears on the active viewfinder screen. (564888)

Affected platforms and/or devices:

- Android
- Kofax Mobile Demo

**Workaround:** None.

## Able to save component with no name

The Kofax Mobile Demo application allows the user to save a component without providing a name for that component. (564870)

Affected platforms and/or devices:

- Android
- Kofax Mobile Demo

**Workaround:** None.

## Payee endorsement fails even though check is endorsed

In "Check information Usability", the results for Payee Endorsement show "Failed" even though the check is endorsed. (564547, 559858)

Affected platforms and/or devices:

- Android
- iOS

**Workaround:** This happens when capturing the signature on the left side of the check, instead of the right. Manually rotate the check so that the signature is on the right and try to retake the image.

## Default resolution for image capture mode doesn't capture

When switching to image capture and keeping the default resolution, some devices aren't able to capture because they can't detect the MICR. (564501)

Known affected devices are listed below, there may be others.

Affected platforms and/or devices:

- Android
- Moto G
- Samsung Galaxy Note 1
- Droid 4
- Droid Charge
- Droid Mini
- Samsung Galaxy S2
- Nexus 10
- HTC Thunderbolt

**Workaround:** If your application needs to support one of these devices, try video mode instead of image capture mode.

## Turning video frame ON when camera is not open forces PreviewSize instead of PictureSize

For the `ImageCaptureView`, if `setUseVideoFrame(true)` is called when the camera is not open/ready, then the `CameraManager` will still set `_isUsingVideo` to true, even though the camera has not been set to use Video Mode. This causes the camera to use the default `PreviewSize` instead of the `PictureSize` when in Image mode, which may cause unintended behavior. (564360)

Affected platforms and/or devices:

- Android

**Workaround:** None.

## Camera feed starts flickering after a few minutes

After leaving the `ImageCaptureView` open for about 2 minutes, the camera feed flickers, as if some black frames were occasionally showing. (564131)

Affected platforms and/or devices:

- Android
- Samsung Mega

**Workaround:** None.

## Default capture messages not in correct position regardless of device orientation

On some devices, in the `AnimatedDocumentCaptureExperience`, the messages are not displayed correctly, regardless of the orientation the device is moved into or the orientation in which the application is launched. This has been observed on the Samsung Tab 10, Samsung Note 10.1 2014 edition, and the Samsung Galaxy Note Pro 12.2. Note that other devices may also be affected. (563887)

Affected platforms and/or devices:

- Android

**Workaround:** None.

## Level indicator freezes after capture

The level indicator in the `ImageCaptureView` will not move on the HTC Desire 820 after capturing an image. Intermittently, the level indicator becomes completely stuck for about 5 seconds. (563875)

Affected platforms and/or devices:

- Android
- HTC Desire 820

**Workaround:** None.

## Check detection does not work on older versions of android

Check Detection and the Check Capture Experience are not supported on older versions of Android (Gingerbread and earlier). (560519)

Affected platforms and/or devices:

- Android

**Workaround:** For older versions, use the Animated Document Capture Experience instead.

## Check detector returns bounds rotated 90 degrees

When passing in a portrait image, bounds come back in landscape. These bounds should be transformed back into portrait before they are returned. (556995)

Affected platforms and/or devices:

- Android

**Workaround:** None

## Application Shows black screen on launch of viewfinder

The Kofax Mobile Demo application shows a black screen on launch of viewfinder from any Kofax Mobile Demo component when camera is running in background. (559511)

Affected platforms and/or devices:

- Android Kofax Mobile Demo

**Workaround:** None.

## CheckCaptureExperience does not work if the landscape view is landscape left

The `CheckCaptureExperience` works (gives correct guidance) in portrait orientation as well as "landscape right" orientation. If it is in "landscape left" orientation, it will give you the wrong guidance. Android devices display upside down `CaptureMessages`. (559425)

Affected platforms and/or devices:

- Android
- iOS

**Workaround:** None

## CheckDetector only works with landscape bitmaps

The `CheckDetector` class only works when passed a landscape-oriented bitmap. With portrait-oriented bitmaps, you either get back a null result, or occasionally a sig 11 crash. (557910)

Affected platforms and/or devices:

- Android

**Workaround:** Use only landscape-oriented bitmaps with the `CheckDetector`. If necessary, you can try manually rotating the image.

## Changes to settings lost when Kofax Mobile Demo is killed

If Kofax Mobile Demo is killed after settings have been changed, the new settings may be lost. (557472)

Affected platforms and/or devices:

- iOS
- Android

**Workaround:** In order for the changes persist, you have to edit the profile form the home screen.

## CheckDetector always returns null

When passing in `CheckSide Back` or `None`, a `null` result is always returned from the `CheckDetector` instead of the expected normal contrast-based page detection results when using these modes. (557276)

Affected platforms and/or devices:

- Android

**Workaround:** None: This capability has not been implemented. `Back` and `None` values will return a `null` result by design. This may change in a future release.

## Check capture experience may display pulsating MICR boxes

In some cases, the guidance frame used when capturing the MICR line from a check may incorrectly appear to pulsate and two default messages will appear overlaid on top of each other. This will happen when an application inadvertently constructs two `CheckCaptureExperience` objects or two `AnimatedDocumentCaptureExperience` objects on the same image capture control. (557212)

Affected platforms and/or devices:

- iOS

**Workaround:** Do not double up on check capture experiences.

## Captured credit cards may not be displayed correctly

On certain combinations of phone model and Android version, the embossed credit card (Card.io) capture view displays as an opaque gray rectangle. (554751)

Affected platforms and/or devices:

- Android

**Workaround:** Set the `hardwareAccelerated` flag to true for the `io.card.payment.CardIOActivity` in your Android manifest file:

```
<activity
  android:name="io.card.payment.CardIOActivity"
  android:configChanges="keyboardHidden|orientation"
  android:hardwareAccelerated="true" />
```

## Large images cause an error in check deposit

There's an issue with large images for Check Deposit that is causing this error: `Unhandled Exception: System.AccessViolationException: Attempted to read or write protected memory. This is often an indication that other memory is corrupt.` This occurs when the image is large and image processing is done on the image. The dimensions of the images are about 3400x1500 with a DPI of 400. (548315)

Affected platforms and/or devices:

- iOS
- Android

**Workaround:** Do use very large images with Check Deposit.

## Sony XPeria Z1s captures unfocused images

When using the image capture control in video capture mode with continuous capture on, it is very easy to capture unfocused images, particularly in low light conditions. (378258)

Affected platforms and/or devices:

- Android

- Sony XPeria Z1s

**Workaround:** Ensure there is adequate lighting and try turning the torch on.

## Droid Razr Maxx stability value not stable

When trying to capture with page detection, the stability value occasionally jumps between 86~87 to 100, even when the phone is motionless. This side effect makes it difficult to capture when page detection is enabled. (375515)

Affected platforms and/or devices:

- Android
- Droid Razr Maxx

**Workaround:** None.

## PostNet bar code search is slower than other bar code symbologies

Depending on the device and the bar codes being read, search times will vary but will in general be up to 10 times slower when searching for the same number of PostNet symbologies as when searching for another symbology. (370107)

Affected platforms and/or devices:

- All

**Workaround:** None.

## HTC Thunderbolt may crash when using torch

In the Android Image Capture control, when using the Torch on the HTC Thunderbolt, the lamp will hold a steady light before capturing the image. But after a continuous capture or force capture event, the torch may occasionally flash and cause the application to crash. (369559)

Affected platforms and/or devices:

- Android
- HTC Thunderbolt

**Workaround:** None, the SDK will throw an exception if this device is used with the torch.

## Android app will not run in emulator with Google Maps API Enabled

The Android BankRight app will not run in the Android emulator when the Google maps API is enabled. (352625)

Affected platforms and/or devices:

- Android

**Workaround:** Removing Google Maps from the AndroidManifest.xml will allow the BankRight app to run in the emulator appropriately.

## Level indicator sluggish with continuous page detection

On the iPhone 4, the motion of the level indicator becomes quite choppy and is difficult to use. In addition, it may jump back to the center of the screen, even if the device is not level. This happens when continuous page is on in either video or capture mode. (346683)

Affected platforms and/or devices:

- iOS
- iPhone 4

**Workaround:** Don't use continuous page detection with this device; use auto page detection instead.

## Blue overlay obscures viewer at certain sizes

A blue overlay obscures the viewfinder at certain custom X and Y values (both dimensions must be from 200 to 215). This issue has only been observed on the LG Lucid. (346319)

Affected platforms and/or devices:

- Android
- LG Lucid

**Workaround:** If you experience this issue, try changing the size.

## Extreme DPI settings not supported

On the low side, setting a DPI below 30 is not supported. On the high side, problems appear when the DPI is set in the thousands, the exact value depending on the device and its configuration. (345439, 345420, 306154, 306152 )

Specific problems may vary, for example there may be memory alerts, parts of the screen may turn black, and in the worst case the application may crash. As a general rule of thumb, try to use a DPI value between 200 and 300.

Affected platforms and/or devices:

- Android
- iOS

the application should include logic to confirm and enforce minimum and maximum DPI settings.

## Overexposed images if lighting changes from dark to bright

When attempting to capture a driver license, check, or bill, if the device camera is in a dark area, the camera compensates for the darkness by setting the exposure to high. If the lighting suddenly changes to bright, the camera does not reset the exposure to compensate when the flash fires as a focus aid. This causes the view to be stuck in an overexposed state, resulting in a badly washed out image. (344839)

This may happen, for example, when setting the device on a table top such that virtually all the light entering the lens is blocked by the table surface. When the device is lifted from the table the flash fires, and light floods the lens, but the image does not adjust.

Affected platforms and/or devices:

- Android
- Samsung Galaxy Note Pro 12.2
- Samsung Galaxy Tab 10.1

**Workaround:** Make sure the flash is off. Or, force the camera to reset the exposure by rotating the device or by relaunching the capture control.

## Unable to capture with pitch set to 180

Setting certain pitch (declination) values may prevent the device from capturing an image. The SDK allows a range of declination values based on the limits of the device, and does not prohibit values within that range, even when those values lead to problems, such as setting the pitch to 180 (which would be the equivalent of taking a picture while upside down). It is up to the app to enforce what the developer considers to be a reasonable range of values for the pitch. In general, any value from 0 (horizontal) to 90 (vertical) should work without issues. (344237)

Affected platforms and/or devices:

- Android
- iOS

**Workaround:** Restrict the pitch range to something reasonable.

## Certain screen resolutions problematic

Under poor lighting conditions, when the below resolutions are used with the image capture view, the iPhone 4 camera repeatedly seeks focus for a prolonged period of time (up to 30 seconds). When using the video capture frame, camera focus becomes unresponsive. Also, the level indicator remains yellow, and even if the view in the preview screen becomes focused, the camera still does not take a picture. (343578)

Note that this is not unique to the SDK and could occur in any app that attempts to use these resolutions on an iPhone 4.

The resolutions causing these problems are:

- Preset 1280x720
- PresetHigh
- iFrame 1280x720
- InputPriority

Affected platforms and/or devices:

- iOS
- iPhone 4

**Workaround:** Avoid using these resolutions with the iPhone 4 unless you can ensure ideal lighting. Also, you can disable the video mode and instead use the image capture frame with Photo resolution to capture high resolution images. Other iOS devices do not exhibit this issue.

**Note** Another alternative is to leave the torch on while capturing images with these resolutions. This may yield better results, but when using this approach, try to minimize glare from the torch lamp.

## Removed images still visible in gallery

After using the SDK to delete images from the image gallery, thumbnails may still be visible when subsequently viewing the gallery. (342182)

Affected platforms and/or devices:

- Android

**Workaround:** Make sure your app refreshes the image gallery after removing an image. You can do this by rescanning the media programmatically.

## Camera feed upside down on landscape tablets

Some tablets (those which are designed such that landscape mode is the natural orientation) may exhibit a problem where the camera view appears inverted in the tablet screen. (306611)

This occurs when rapidly rotating the device 180 degrees one or more times.

Affected platforms and/or devices:

- Android
- Asus Transformer
- Galaxy Tab 10.1
- Nexus 10
- Possibly others

**Workaround:** When rotating the tablet, pause for a few moments every 90 degrees. Alternatively, disable the auto-rotate screen option.

## SDK does not report KFS out of disk space

KFS will reject new jobs when hard disk free space falls below a configurable limit. When the free space on the server falls below this limit, all devices connecting to KFS are supposed to report a server low disk space message at login, so that the user will know that new jobs cannot be submitted. (23824)

Mobile devices currently do not report this message at login. Instead, the following error messages will appear when attempting to submit a job: `An error occurred submitting the case - Unknown transaction ID: [GUID] or Unknown transaction ID: [GUID] (Code 3).`

Affected platforms and/or devices:

- KMC Library

## Android patch for bug 721141

If you wish to patch the Android version of KofaxMobileDemo in order to re-enable support for Kofax Analytics for Mobile, please follow these steps:

1. ) Make the following changes to the file `AppStatsManager.java`:
  - a. Add the following variable declarations near the top of the class implementation:

```
private static String lastOpenedSession;
private static String lastClosedSession;
public static final String SESSION_FAILED = "session failed !";
```

- b. Add a check for null to the `isRecordingOn()` method. The changes function should look like this:

```
public boolean isRecordingOn()
{
    if(mSDKAppStatObj != null)
        return mSDKAppStatObj.isRecording();
    else
        return false;
}
```

- c. Add the following methods:

```
public void beginSession(String category){
    if(isSDKInit() && isRecordingOn()) {
        if(!StringUtil.isEmpty(lastOpenedSession) &&
            !lastOpenedSession.equalsIgnoreCase(lastClosedSession)){
            forceEndSession(lastOpenedSession);
        }
        mSDKAppStatObj.beginSession(UUID.randomUUID().toString(),
category);
        ConstValues.mAppObject.isAppstatsSession = true;
        lastOpenedSession = category;
        Log.i(TAG, category + " Session Begin");
    }
}

public void logSession(String sessionType, String componentName){
    if(isSDKInit() && isRecordingOn()) {
        if(!ConstValues.mAppObject.isAppstatsSession){
            beginSession(componentName);
        }
        AppStatsSessionEvent sessionEvent = new AppStatsSessionEvent();
        sessionEvent.setType(sessionType);
        mSDKAppStatObj.logSessionEvent(sessionEvent);
        Log.i(TAG, componentName + " " + sessionType+" Session logged");
    }
}

public void endSession(boolean success, String description){
    if(isSDKInit() && isRecordingOn()) {
        if(success) {
            lastClosedSession = description;
        }
        mSDKAppStatObj.endSession(success, description);
        ConstValues.mAppObject.isAppstatsSession = false;
        Log.i(TAG, description + " Session Ended");
    }
}
```

```

    }

    private void forceEndSession(String category){
        mSDKAppStatObj.endSession(false, category+SESSION_FAILED);
    }

```

- d. In the `manualExport()` method, add the following code just before the `stopRecord()` call:

```
canStartRecord = false;
```

2. In `CommonUtility.java`, replace the `getComponentName` method with this implementation:

```

public static String getComponentName(String componentName){
    String compname = "";
    if (componentName.equals("Check Deposit"))
    {
        compname = "CheckDeposit";
    }
    if (componentName.equals("Pay Bills"))
    {
        compname = "BillPay";
    }
    if (componentName.equals("ID Card"))
    {
        compname = "MobileID";
    }
    if (componentName.equals("Credit Card"))
    {
        compname = "CreditCard";
    }
    if (componentName.equals("Passport"))
    {
        compname = "MobileID";
    }
    return compname;
}

```

3. In `WebServiceHelper.java`, replace the `purgeAppStatsandStartRecord` method (lines 117-121) with the following:

```

private void purgeAppStatsandStartRecord(){
    if(ConstValues.mAppObject != null &&
    ConstValues.mAppObject.mAppStatsManager != null) {
        ConstValues.mAppObject.mAppStatsManager.purgeAppStats();
        ConstValues.mAppObject.mAppStatsManager.canStartRecord = true;
        ConstValues.mAppObject.mAppStatsManager.startAppStatsRecord();
    }
}

```

4. In `PreviewActivity.java`, replace the code from lines 368-378 (if `(ConstValues.mAppObject.....etc)`, with the following code:

```

ConstValues.mAppObject.mAppStatsManager.logSession
("RETAKE",CommonUtility.getComponentName(ConstValues.mAppObject.mActiveComponent.Name));

```

5. In `HomeActivity.java`, make the following changes:

- a. Replace the code from lines 105-109, in the `onResume` method, with the following blocks:

```
if (ConstValues.mAppObject.isAppstatsSession) {  
    ConstValues.mAppObject.mAppStatsManager.endSession(true,  
  
    CommonUtility.getComponentName(ConstValues.mAppObject.mActiveComponent.Name));  
    ConstValues.mAppObject.mAppStatsManager.manualExport();  
}
```

- b.** Replace the code at approx line 196 (`ConstValues.mAppObject.mSessionKey = ....`), with:

```
ConstValues.mAppObject.mAppStatsManager.beginSession  
    (CommonUtility.getComponentName(component.Name));
```