Kofax mobiFlow

PhoneGap Plugin Developer's Guide
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KOFAX

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Preface

This guide includes the information you need to integrate the mobiFlow PhoneGap Plugin into your project.

You can develop Cordova applications using the Kofax mobiFlow Plugin for SDK. This guide includes information on creating iOS PhoneGap and Android PhoneGap sample applications, that are used to demonstrate the functionality of the SDK.

> **Note** The latest Cordova version supported by the mobiFlow PhoneGap Plugin is 8.0.

Getting help with Kofax products

The Kofax Knowledge Base repository contains articles that are updated on a regular basis to keep you informed about Kofax products. We encourage you to use the Knowledge Base to obtain answers to your product questions.

To access the Kofax Knowledge Base, go to the Kofax website and select **Support** on the home page.

> **Note** The Kofax Knowledge Base is optimized for use with Google Chrome, Mozilla Firefox or Microsoft Edge.

The Kofax Knowledge Base provides:

- Powerful search capabilities to help you quickly locate the information you need.

  Type your search terms or phrase into the **Search** box, and then click the search icon.
- Product information, configuration details and documentation, including release news.

  Scroll through the Kofax Knowledge Base home page to locate a product family. Then click a product family name to view a list of related articles. Please note that some product families require a valid Kofax Portal login to view related articles.
- Access to the Kofax Customer Portal (for eligible customers).

  Click the **Customer Support** link at the top of the page, and then click **Log in to the Customer Portal**.
- Access to the Kofax Partner Portal (for eligible partners).

  Click the **Partner Support** link at the top of the page, and then click **Log in to the Partner Portal**.
- Access to Kofax support commitments, lifecycle policies, electronic fulfillment details, and self-service tools.

  Scroll to the **General Support** section, click **Support Details**, and then select the appropriate tab.

Product documentation

By default, the Kofax mobiFlow documentation is available online. However, if necessary, you can download the documentation to use offline.

Online documentation

The product documentation for Kofax mobiFlow 6.0.0 is available at the following location:

https://docshield.kofax.com/Portal/Products/en_US/mobiFlow/6.0.0-tss0pu9zau/mobiFlow.htm

Offline documentation

To access the documentation offline, download the documentation .zip files from the Kofax Fulfillment Site and extract them on a local drive available to your users.

mobiFlow PhoneGap Plugin for SDK

PhoneGap is an open source mobile application development framework, based upon the Apache Cordova project. See cordova.apache.org for details. The mobiFlow PhoneGap Plugin for the mobile SDK in your mobile application can be used to capture and process images and bar code data received from mobile devices.

> **Note** PhoneGap is the Adobe branded version whereas Cordova is the generic open source Apache version. For the purposes of this guide, all references to PhoneGap can apply to either PhoneGap, or Cordova.

This plugin describes mobiFlow SDK functionality within a Cordova application. The plugin code calls existing SDK methods and sends the response back to MobiFlowCordovaPlugin JavaScript code.

The MobiFlowCordovaPlugin contains native methods that are called from a hybrid application via mobiflow.js

The PhoneGap related files provided with this plugin are described in the folllowing table.

File Name	Description
mobiflow.js	The plugin APIs are exposed via mobiflow.js
MobiFlowCapture.jar MobiFlowListener.jar	These are native parts of Android plugin responsible for interacting with native libraries.
MobiFlowCordovaPlugin.h MobiFlowCordovaPlugin.m	These are native parts of iOS plugin responsible for interacting with native libraries.
plugin.xml	This is the main part of the plugin. By using this, Cordova will install the plugin for the iOS and Android platforms.

PhoneGap sample application

The PhoneGap sample application demonstrates the plugin using the capture, processing and extraction SDK features. Common files are available in the `\Hybrid\Cordova\www` folder. This sample application can be used on iOS and Android devices.

For this application, the following three components are exposed.
- **Check:** If selected, application launches the check capture view controller, and after capturing displays results.
- **Full Page:** If selected, application launches the full page capture view controller and after capturing displays results.
- **Bill:** If selected, application launches the bill capture view controller, and after capturing displays results.

You can also capture Custom, Credit Card and Passports by using MobiFlowCorodvaPlugin. To launch the other components you need to make changes in the code.

Create a PhoneGap sample application

To create a PhoneGap sample application do the following:

1. Run the following command in Command Prompt or Terminal:

   ```
   cordova create MobiFlowSample identifier(ex:com.kofax.mobiflowsample)
   MobiFlowSample
   ```

2. Run the following command to go to MobiFlowSample:

   ```
   cd MobiFlowSample
   ```

3. Copy files from the `Hyrbid/Cordova/www` folder to the `MobiFlowSample/www` folder.

4. Modify `MobiFlowSample/www/js/index.js` to add the SDK license.

Build the Android PhoneGap sample application

Make the following changes to the sample application before you run it.

1. Run the following command to add the cordova-plugin-mobiflow plugin to the sample application:

   ```
   cordova plugin add Hybrid/Cordova/plugins/cordova-plugin-mobiflow
   ```

2. Go to `\Android\aars` folder and copy all the contents to the `MobiFlowSample\plugins\cordova-plugin-mobiflow\src\android` folder.

3. Add the Android platform by running the following command in Command Prompt:

   ```
   cordova platform add android
   ```

   An Android Studio project is created in the platforms folder.

Run the application from Command Prompt

1. To build the sample application, use the following command:

   ```
   cordova build android
   ```

2. To run the sample application, use the following command:

   ```
   cordova run android
   ```

Run the application from the Android Studio

1. In Android Studio, import the sample project MobiFlowSample.

2. Build the sample project, and then run it.

Build iOS PhoneGap sample application

1. Run the following command to add the cordova-plugin-mobiflow plugin to the sample application:

   ```
   cordova plugin add Hybrid/Cordova/plugins/cordova-plugin-mobiflow
   ```

2. Unzip the Frameworks from `\iOS\mobiFlow\Frameworks`.

3. Copy unzipped Frameworks from `\iOS\mobiFlow\Frameworks` to `\MobiFlowSample\plugins\cordova-plugin-mobiflow\src\ios\mobiFlow`.

4. Copy Resources folder from `\iOS\mobiFlow` to `\MobiFlowSample\plugins\cordova-plugin-mobiflow\src\ios\mobiFlow`.

5. To add an iOS Xcode project, run the following command in Terminal:

   ```
   cordova platform add ios
   ```

   An iOS Xcode project is created in Platforms folder.

Run the application using Terminal

When you run the sample application using Terminal, verify the following:

- Make sure Python is installed on `/usr/bin/<Python location>` to launch the application on iOS devices.
- Add development team ID to the build and run commands for iOS as indicated.

  1. To build the sample application, run the following command in Terminal:

     ```
     cordova build ios --buildFlag="-UseModernBuildSystem=0" --buildFlag="DEVELOPMENT_TEAM=yourDevelopmentTeamID"
     ```

     Important In the above code replace `yourDevelopmentTeamID` with your development team ID.

  2. To run the sample application, use the following command in Terminal:

     ```
     cordova run ios --buildFlag="-UseModernBuildSystem=0" --buildFlag="DEVELOPMENT_TEAM=yourDevelopmentTeamID"
     ```

     Important In the above code, replace `yourDevelopmentTeamID` with your development team ID.

     The application gets launched on the device.

Run the application from Xcode

1. Before you run the application make sure that code signing is completed.
2. Open the Xcode project in `MobiFlowSample/platforms/ios`
3. Build the project, and then run it.

How to use the plugin

You can use the plugin with the existing application or with a newly created application. Some changes are required in the plugin before you add it to the project. For instructions, go to `\Hybrid\PhoneGap\Plugins\cordova-plugin-mobiflow` folder and open the ReadMe.md file.

Required library and framework files

To use mobiFlow SDK with your application, refer to *Kofax mobiFlow SDK Developer's Guide* for specific library and frameworks.

iOS

For an iOS project, the following frameworks are required:
- KofaxmobiFlowWidget.framework
- opencv2.framework
- Localized string files and bundle in the Resources folder

Android

For an Android project, the following library is required:
- mobiFlow.Android-release.aar

Licensing

When you use the plugin in the sample application, pass your mobiFlow SDK license to the plugin.

For the sample application, the license is set in the parameters of the capture method, which is done in the index.js file.

In the sample application directory modify `MobiFlowSample\www\js\index.js` to insert your license.