

Kofax Mobile ID Facial Recognition

Administrator's Guide

Version: 2.3.0

Date: 2018-02-23



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Table of Contents

Preface	4
Related documentation.....	4
Training.....	4
Getting Help for Kofax Products.....	4
Chapter 1: Overview	6
Chapter 2: Feature and enhancement guide	7
Chapter 3: Installation and configuration	8
Configuration with Kofax TotalAgilityfor Kofax Mobile ID Capture.....	8
Uninstallation.....	8
High-level flow.....	9
Settings and parameters.....	9
Chapter 4: Server response	10
Field property restrictions.....	10

Preface

This guide includes the information you need to get up to speed with your application.

Related documentation

- Documentation for this product is available [online](#).
- *Kofax TotalAgility Administrator's Guide* Contains essential information about installing and configuring Kofax TotalAgility.
- *Kofax Mobile SDK Developer's Guide* Contains essential information about installing and configuring the Kofax Mobile SDK.
- *Kofax Mobile ID Extracted Field Tables* This is an HTML document with a complete listing of all currently supported ID fields by region and by country. This can be opened by clicking on `index.html` in the `Field List` folder.

Training

Kofax offers both classroom and computer-based training that will help you make the most of your Kofax Capture solution. Visit the Kofax website at www.kofax.com for complete details about the available training options and schedules.

Getting Help for Kofax Products

Kofax regularly updates the Kofax Support site with the latest information about Kofax products.

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

To access some resources, you must have a valid Support Agreement with an authorized Kofax Reseller/ Partner or with Kofax directly.

Use the tools that Kofax provides for researching and identifying issues. For example, use the Kofax Support site to search for answers about messages, keywords, and product issues. To access the Kofax Support page, go to www.kofax.com/support.

The Kofax Support page provides:

- Product information and release news
Click a product family, select a product, and select a version number.
- Downloadable product documentation
Click a product family, select a product, and click **Documentation**.

- Access to product knowledge bases

Click **Knowledge Base**.

- Access to the Kofax Customer Portal (for eligible customers)

Click **Account Management** and log in.

To optimize your use of the portal, go to the Kofax Customer Portal login page and click the link to open the *Guide to the Kofax Support Portal*. This guide describes how to access the support site, what to do before contacting the support team, how to open a new case or view an open case, and what information to collect before opening a case.

- Access to support tools

Click **Tools** and select the tool to use.

- Information about the support commitment for Kofax products

Click **Support Details** and select **Kofax Support Commitment**.

Use these tools to find answers to questions that you have, to learn about new functionality, and to research possible solutions to current issues.

Chapter 1

Overview

Kofax Mobile ID Capture contains a Kofax Transformation Modules project for extracting information from images of driver licenses or passports. It can be used with most United States-based license formats in all fifty states, licenses from Argentina, Brazil, Canada, Colombia, India, Mexico and Poland.

Note Only English and non-English Latin characters and numbers, such as dates and license number, from the above countries are extracted from IDs. Also, dates such as PERMANENTE on Federal District Driver Licences (Mexico) will be converted, by the validator, to YYYY-MM-DD.

Note also that dates on IDs from Baja are formatted as DD-MMMM-YYYY and there is no validation for this format. Consequently the dates are used as extracted, affecting extraction accuracy statistics.

Kofax Mobile ID Capture Verification includes the `KTA Package` - this folder contains a Kofax TotalAgility package for use with TotalAgility.

The following key features are supported: Facial Recognition and Match Face with Head shot of ID car

Chapter 2

Feature and enhancement guide

Return Version Number

A `ProductVersion` field is available that returns version information to a global variable when the project is loaded into the process at runtime. This variable is populated only once per project session.

Verification via selfie

Verification can also be accomplished via a "selfie" type photograph. For this scenario, the user takes a selfie portrait which is then compared to a photograph on an ID via the facial recognition software. Use of this feature requires a separate installation and license.

Selfie match

If the ID includes a photograph of the user, the user can take a selfie that will then be compared to the photo extracted from the ID. The comparison includes tests to ensure that the selfie was taken of a live person. This check is based on the highest rated NIST (the US National Institute of Standards and Technology) facial recognition algorithm.

The selfie photograph could also be matched to a prior selfie or image stored in a 3rd party or independent database.

Liveness

The liveness service detects the presence of a live person on all supported platforms. It is designed to thwart a variety of attempts to spoof the service. It makes use of a military-grade level approach that goes beyond the more common blink based approaches.

Liveness consists of many different spoofing proof technologies that can be implemented as an integrated service, or separately implemented based on the risk of the customer engagement.

Customization

While the identity platform can be used to determine whether an identity is genuine or fake, it also allows you to customize how customers can be segmented by value and opportunity.

Chapter 3

Installation and configuration

Follow the instructions in this section to install Kofax Mobile ID Capture for use with Kofax TotalAgility.

Note Kofax Mobile ID Capture requires .NET Framework 4.6.2 and VC++ 2015 x86 Redistributable. Please ensure your system meets the requirements before proceeding.

1. Extract `KofaxIdentity-FR-2.2.0.ZIP` to a folder of your choice. All instructions and examples in this guide assume the folder name is `C:\MobileIDCapture`.

Configuration with Kofax TotalAgilityfor Kofax Mobile ID Capture

Follow the instructions in this section to use Kofax Mobile ID Capture with Kofax TotalAgility. The TotalAgility package includes a process map that can be used to perform extraction.

1. Log in to the TotalAgility designer.
2. Navigate to the Packages Designer.
3. Select Import Package.
4. Browse to the `KofaxMIDFacialRecognition.zip` file in the `KTA Package` folder.
5. Click Import to import the package.

Uninstallation

1. Log in to the TotalAgility designer.
2. Navigate to the Data Designer.
3. Delete the `KofaxMobileIDCapture` group under the `KofaxSmcs\KofaxMobileID` category.
4. Navigate to the Process Designer.
5. Delete the `KofaxMobileIDCapture` and `KofaxMobileIDCaptureSync` processes under the `KofaxSMCs \KofaxMobileID` category.
6. Navigate to **System Settings > Scan/VRS Profiles**
7. Delete the `KofaxMobileIDCapture` profile.

High-level flow

When extracting information from an ID document, the following process occurs:

1. The color image of the ID, ideally on a solid color background, is deskewed and cropped to just the document itself.
2. The cropped image is classified to type and within that specific issuing authority and layout.
3. The cropped image is cleaned up with an image cleanup profile specific to classification.
4. Extraction is performed on the cleaned up image.

The Kofax Mobile SDK is capable of performing any of the steps prior to Extraction. On any platform, control of which steps the project will perform is driven by the settings in the project, or the parameters to the current request.

Settings and parameters

The following parameters and their valid values are described below.

TransactionId

This is the parameter your mobile application can use to pass `transactionId` to the Kofax Mobile ID Selfie project to ensure the Selfie Match functionality is performed.

Transaction ID will be obtained from the `KofaxMobileIdVerification` response (Authentication).

Chapter 4

Server response

By default, the server relays data extracted from the Kofax Transformation Modules project in a JSON format with a structure similar to the following sample. Note that the extraction confidence returned in the JSON response will only show a confidence of 1.0 or 0.0. A confidence of 1 indicates that a value was returned for that field, 0 indicates that no value was returned.

```
**** need text file of response ****
```

The following fields are returned for a Selfie Response:

- `DocumentType`
- `SelfieResponse` (JSON string, which contains the Authentication details).
- `ProductVersion`

Field property restrictions

Some restrictions apply to the returned values for certain properties of the above fields.

- **Confidence:** The value for the confidence field can be from 0.0 to 1.0, with 1.0 being certain and 0.0 means the value is either not applicable for that ID type or not extracted.
- **Position:** The values for the position fields (`left`, `top`, `height`, `width`, `pageIndex`) are always -1.
- **FormattingFailed:** The values for the `FormattingFailed` property is always false.