

Kofax Mobile ID Verification

ID Verification and Facial Recognition Administrator's Guide

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The logo for KOFAX, consisting of the word "KOFAX" in a bold, blue, sans-serif font.

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Preface

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

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 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.

Related documentation

In addition to this guide, refer to the following documentation:

- *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.

Product documentation

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

Default online documentation

The product documentation is available at the following location.

https://docshield.kofax.com/Portal/Products/en_US/SMC/2.6.0-fcw2jvpfja/KMID.htm

Configure offline documentation

To access the documentation offline, download the following files:

- KofaxMobileIDDocumentation-2.6.0_EN.zip
- KofaxMobileIDVerificationDocumentation_2.6.0_EN.zip

Download these files from the [Kofax Fulfillment Site](#) and extract it on a local drive available to your users.

The compressed files include the `print` folder that contains all guides, such as the Installation Guide and the Administrator's Guide. The `help` contains the Kofax Mobile ID Extracted Field Tables.

Chapter 1

ID Verification

This section focuses on the ID Verification product. For facial recognition see [ID Facial Recognition](#).

ID Verification overview

- You can verify IDs used for extraction so the user can be confident about using the extraction ID information in their business processes.
- The verification results are returned as separate fields as part of Kofax Mobile ID Capture's JSON response.
- The ID verification feature is enabled through a specific license ID that must be available on the Kofax license server.
- Forensic analysis of the format is performed and security features of the ID document are checked.
- Even though ID verification tests can be performed on front images only, it is strongly recommended that both front and back images of the ID be used for ID verification.
- ID extraction is performed using Kofax technology. The ID verification tests are performed only when ID extraction is successful.
- At-least 500 DPI images are recommended for ID verification tests.
- ID verification only supports JPEG and PNG images.

Configuration with Real-Time Transformation Interface

1. Installation of Kofax Mobile ID Capture

Note If you have already installed the package during Mobile ID installation or configuration, you may skip this step.

- a. Extract `KofaxIdentity-Verification-2.x.ZIP` (where `x` is the current version number) to a folder of your choice. All instructions and examples in this guide assume the folder name is `C:\MobileIDCapture`.
- b. Modify the Real-Time Transformation Interface `Web.config` file to include the mapping for the Kofax Mobile ID Capture project, referencing `KofaxMobileIDCapture.fpr` as the project, `IPProfile_MobileIDCapture_ID.txt` as the image processing profile, and set the `separateExtractionProcessPool` option to `TRUE` as shown in the example below. Both `KofaxMobileIDCapture.fpr` and `IPProfile_MobileIDCapture_ID.txt` are in the `C:\MobileIDCapture\KTM Project` folder.

```
<project projectMapping="MobileIDCapture"  
  projectFile="C:\MobileIDCapture\KTM Project\KofaxMobileIDCapture.fpr"
```

```
ipProfile="C:\MobileIDCapture\KTM Project
\IPProfile_MobileIDCapture_ID.txt"
processPoolInitialSize="2"
processPoolThreshold="1"
separateExtractionProcessPool="true"
ipOutputFormat="JPG" />
```

2. Configure Script Variables.

- a. Edit the `KofaxMobileIDCapture_ScriptVariables.xml` file located in an existing Mobile ID installation or, for this example, the file path is `C:\MobileIDCapture\KTM Project\KofaxMobileIDCapture_ScriptVariables.xml`.
- b. Configure the following keys with information you collected earlier during the installation and configuration of Mobile ID Verification as their values.
 - `Verification_Server`
 - `Verification_AccessKey`
 - `Verification_Token`
 - `EnableVerificationDiagnostics`
 - `VerificationPassedSegmentCode`
 - `VerificationFailedSegmentCode`
 - `VerificationOnPremises`
 - `VerificationOptionalHeaders`

When you set these keys, note the following:

- `EnableVerificationDiagnostics`: Set to "true" if you need diagnostics. If not, set to "false".
- `VerificationPassedSegmentCode`: The default value is "99." You can change this based on the Action code value set in the IDVerified segment name in Verification portal.
- `VerificationFailedSegmentCode`: The default value is "60." You can change this based on the Action code value set in the Failed segment name in Verification portal.
- `VerificationOnPremises`: The default value is "false." If you are using the on-premises version of Verification software, set to this value to "true."
- `VerificationOptionalHeaders`: Use this parameter to customize the headers of the verification server, if required.

3. Save the file.

Configuration with Kofax TotalAgility

1. Import the Kofax Mobile ID Capture TotalAgility package.

Note If you have already imported the package during Mobile ID installation or configuration, you may skip this step.

- a. Log in to the TotalAgility Designer.
 - b. Navigate to the **Packages** designer.
 - c. Select **Import Package**.
 - d. Browse to the KofaxMobileIDCapture.zip file.
 - e. Click **Import** to import the package.
2. Configure TotalAgility Server Variables.
 - a. Log in to the TotalAgility Designer.
 - b. Navigate to the **Data** designer.
 - c. Select **Server Variables**.
 - d. Change the Category Filter to **Kofax SMCs\KofaxMobileID**.
 - e. Configure the variables in the table below with information you collected earlier during the installation and configuration of Mobile ID Verification.

Name	ID	Category	Type
Verification_AccessKey	VERIFICATION_ACC ESSKEY	KofaxMobileID	String
Verification_Server	VERIFICATION_SER VER	KofaxMobileID	String
Verification_Token	VERIFICATION_TOKEN	KofaxMobileID	String
EnableVerification Diagnostics	ENABLEVERIFICATION DIAGNOSTICS	KofaxMobileID	Bool
VerificationOnPremises	VERIFICATIONONP REMISES	KofaxMobileID	Bool
VerificationPassedSegmentCode	VERIFICATIONPASSED SEGMENTCODE	KofaxMobileID	String
VerificationFailedSegmentCode	VERIFICATIONFAILED SEGMENTCODE	KofaxMobileID	String
VerificationOptionalHeaders	VERIFICATIONOPTION ALHEADERS	KofaxMobileID	String(valid json)

Request parameters

Input parameters

The following parameters and their valid values are described below. When using Real-Time Transformation Interface, all parameters must be prefixed with an 'x,' e.g., the `Verification` parameter should be sent to the server as `xVerification`. When using TotalAgility, the parameter names do not require this prefix.

Input Parameter	Description	Default value
<code>Extraction</code>	If false is specified, only authentication will be performed.	True
<code>Verification</code>	If true, verification will be performed.	False
<code>ExtractPhotoImage</code>	If true is specified, the head shot from the document is returned in extraction field <code>VerificationPhoto64</code> in response	False
<code>IDSize</code>	If <code>IDSize</code> is not passed as a parameter, classification will be done and will automatically detect the document type. If "ID1" / "ID2" / "Passport" / "GreenID" is specified, no classification will be done before passing the document to verification server	empty

Response fields

The below fields will be added to the Kofax Mobile ID Capture 2.x response.

Field Name	Value
<code>VerificationResult</code>	Document verification status (Passed/Failed/Attention/Unknown) This value is a summary of the tests run on the document.
<code>VerificationTransactionID</code>	This is a unique ID generated for the transaction by the verification server. This value can be used to identify transactions.
<code>VerificationPhoto64</code>	The document holder's photo (head shot) found on the document ID. It is in a base64 string format
<code>VerificationReserved</code>	This field is reserved for use by Kofax.

Field Name	Value
VerificationErrorInfo	Information about errors, if there are any. Example : { "ResponseType":null,"ResponseCode":null, "StatusCode":null,"ErrorMessage": "License 'Kofax Mobile ID Capture - ID verification' is not available.", "ErrorType":"Error"}

Example URL Calls

Samples of URL POST requests for the front and back of a driver license are provided in the `Samples` folder where Kofax Mobile ID Capture is installed. These samples are described in this section.

Real-Time Transformation Interface

The Real-Time Transformation Interface sample requires the following:

- Kofax Transformation Modules 6.2 or later is installed.
- Real-Time Transformation Interface is configured at `http://localhost/MobileSDK`.
- The Transformation project is mapped as `IDCapture`.
- Verification is installed and configured.

RequestURL

`http://<servername>/mobilesdk/api/IDCapture`

Request Headers

```
Accept: application/json
Content-Type: multipart/form-data; boundary=-----acebdf13572468
```

Request Body

Open `RTTI_Request_Ver.txt` from the `Samples` folder.

Response Body

Open `RTTI_Response_Ver.txt` from the `Samples` folder.

Kofax TotalAgility for verification

Note The request body and request response may take a moment to open.

Request URL

`http://<servername>/TotalAgility/Services/SDK/JobService.svc/json/
CreateJobSyncWithDocuments.`

Request Headers

```
Accept: application/json  
Host: <servername>  
Content-Type: application/json
```

Request Body

Open KTA_Request_Ver.txt from the `Samples` folder.

Response

Open KTA_Response_Ver.txt from the `Samples` folder.

Chapter 2

ID Facial Recognition

This section focuses on the facial recognition product. For ID verification see [ID Verification](#).

Facial recognition overview

Facial recognition is performed to establish and validate that the person capturing the ID is the real owner of the ID.

The user will submit a selfie portrait image to be compared to the image photograph extracted from the users ID card.

Note Use of this feature requires a separate Kofax License.

Configuration

To perform facial recognition, the following software must be configured.

Configuration with Real-Time Transformation Interface

Installation of Kofax Mobile ID Capture: There is no need to install any package as you have already installed the necessary package during the Kofax Mobile ID Verification installation.

Configuration with Kofax TotalAgility

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

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

Request parameters

The following parameters and their valid values are described below. When using Real-Time Transformation Interface, all parameters must be prefixed with an 'x,' e.g., the `TransactionId` parameter should be sent to the server as `xTransactionId`. When using TotalAgility, the parameter names do not require this prefix.

Input Parameter	Value
<code>IdType</code>	Selfie (This parameter is required for Real-Time Transformation Interface only.)
<code>TransactionId</code>	This is the parameter your mobile application can use to pass the transaction ID to ensure Selfie Match functionality is performed.
<code>LivenessSelfie</code>	<p>True or False</p> <p>If the <code>LivenessSelfie</code> value is true, the image sent will be verified against all selfies present for the specified transaction ID. If any of these verifications fail, the overall result is a failure in the response.</p> <p>If the <code>LivenessSelfie</code> value is false, the image sent will be verified against the head shot from the document for the specified transaction ID.</p> <p>The default value is false.</p>

Response fields

The following fields are returned as the selfie response:

Field Name	Value
<code>FRMatchResult</code>	Shows the result after matching the two images (Passed/Failed/Attention)
<code>FRMatchScore</code>	Shows the score after matching the two images.
<code>FRTransactionID</code>	Transaction ID, which was sent in request.
<code>FRReserved</code>	Reserved for Kofax use.
<code>FRErrorInfo</code>	<p>Information about errors if there are any.</p> <p>Example :</p> <pre>{ "ResponseType":null, "ResponseCode":null, "StatusCode":null, "ErrorMessage": "License 'Kofax Mobile ID Capture - Facial Recognition' is not available.", "ErrorType":"Error"}</pre>

Manual review workflow (only for Kofax TotalAgility)

1. Import `KofaxMobileIdFacialRecognitionReview.zip` package into Kofax TotalAgility.

2. Copy ImageCompare.aspx to TotalAgility's `Forms` folder.
An example for TotalAgility's `Forms` folder is likely to be `C:\Program Files\Kofax\TotalAgility\Agility.Server.Web\Forms`.
3. Copy Kofax.Mobile.Id.KTAFrmSelfieResults.dll to TotalAgility's `bin` folder.
An example for TotalAgility's `bin` folder is likely to be `C:\Program Files\Kofax\TotalAgility\Agility.Server.Web\bin`.
4. Open TotalAgility Designer.
5. Go to **Data**.
6. Go to **Server Variables**.
7. Click on the **Category Filter** drop down list and Select **KofaxMobileId**. Update the `FRReviewer` variable with the username of the Kofax TotalAgility resource to make this user a reviewer. Don't forget to click the check mark or it will not be saved.

Note if you don't find this variable in this category, select **All** in the Category Filter Drop down.

8. Configure the below server variables for Push notification:
 - `Android_PushNotifyServerKey`
 - `IOS_PUSH_IsAPNProduction`
 - `IOS_PUSHCertificateName`
9. Approve or Reject form in Kofax TotalAgility forms.
 - a. Login to the Kofax TotalAgility workspace at `http://<Server>/TotalAgility/Forms/Custom/logon.html` as "FRReviewer" (or the actual username configured in the above server variables).
 - b. Go to **My Activities**.
 - c. Click **Activity**.
 - d. You will see a form with **FR Score**, **FR Result**, **Transaction ID**, **Selfie Image**, and **Head shot image**.
 - e. You can clear or check the **Approve** check box and click the **Complete** button.
 - f. Now, the device will get a push notification with the Approve/Reject information for the transaction ID.

Example URL Calls

Samples of URL POST requests for the front and back of a driver license are provided in the `Samples` folder where Kofax Mobile ID Capture is installed. These samples are described in this section.

Real-Time Transformation Interface

RequestURL

`http://<servername>/mobilesdk/api/IDCapture`

Request Headers

```
Accept: application/json  
Content-Type: multipart/form-data; boundary=-----acebdf13572468
```

Request Body

Open RTTI_Request_FR.txt from the Samples folder.

Response Body

Open RTTI_Response_FR.txt from the Samples folder.

Kofax TotalAgility

Note The request body and request response may take a moment to open.

Request URL

```
http://<servername>/TotalAgility/Services/SDK/JobService.svc/json/  
CreateJobSyncWithDocuments.
```

Request Headers

```
Accept: application/json  
Host: <servername>  
Content-Type: application/json
```

Request Body

Open KTA_Request_FR.txt from the Samples folder.

Response

Open KTA_Response_FR.txt from the Samples folder.