Kofax Mobile ID Capture
ID Verification and Facial Recognition Administrator's Guide

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KOFAX

Table of Contents

Preface

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

Training

Kofax offers both classroom and online training to help you make the most of your product. To learn more about training courses and schedules, visit the Kofax Education Portal on the Kofax website.

Getting help with Kofax products

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

To access the Kofax Knowledge Portal, go to https://knowledge.kofax.com.

> ℹ The Kofax Knowledge Portal is optimized for use with Google Chrome, Mozilla Firefox, or Microsoft Edge.

The Kofax Knowledge Portal 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.

  To locate articles, go to the Knowledge Portal home page and select the applicable Solution Family for your product, or click the View All Products button.

From the Knowledge Portal home page, you can:
- Access the Kofax Community (for all customers).

  On the Resources menu, click the **Community** link.
- Access the Kofax Customer Portal (for eligible customers).

  Go to the Support Portal Information page and click **Log in to the Customer Portal**.
- Access the Kofax Partner Portal (for eligible partners).

  Go to the Support Portal Information page and click **Log in to the Partner Portal**.
- Access Kofax support commitments, lifecycle policies, electronic fulfillment details, and self-service tools.

Go to the Support Details page and select the appropriate article.

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 Capture SDK Developer's Guide*: Contains essential information about installing and configuring the Kofax Mobile Capture 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.

Online documentation

Product documentation for Kofax Mobile ID Capture is available at the following location.

https://docshield.kofax.com/Portal/Products/en_US/SMC/2.7.0-pm2voa50k0/KMID.htm

Configure offline documentation

To access the documentation offline, download the following file:

- KofaxMobileIDCaptureDocumentation-2.7.0_EN.zip

Download this 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 Capture Extracted Field Tables.

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. Install Kofax Mobile ID Capture by doing the following:

    > ⓘ 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 as follows:

   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
      • VerificationOptionalHeaders
      • VerificationServerDetailsJSON

      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 Fraud segment name in Verification portal.
      • VerificationOptionalHeaders: Use this parameter to customize the headers of the verification server, if required.
      • VerificationServerDetailsJSON: Use this parameter to provide multiple endpoint names. Set the parameter using the following syntax:

      ```
      {'EndPoint1':{'HostName':'','AccessKey':'','SecretToken':''},
      'EndPoint2':{'HostName':'','AccessKey':'','SecretToken':''},
      'EndPoint3':{'HostName':'','AccessKey':'','SecretToken':''}}
      ```

      To use a specific verification server, set VerificationServerEndPoint with the EndPoint name associated with the server's host name. For example:

      ```
      VerificationServerEndPoint:"EndPoint1"
      ```

3. Save the file.

Configuration with Kofax TotalAgility

1. Import the Kofax Mobile ID Capture TotalAgility package.

ⓘ 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.

> ⓘ This is a Kofax TotalAgility variable that is updated with the secure(mask) feature.

Verification_AccessKey
- **ID:** VERIFICATION_ACCESSKEY
- **Category:** KofaxMobileID
- **Type:** String

> ⓘ This is a Kofax TotalAgility variable that is updated with the secure(mask) feature.

Verification_Server
- **ID:** VERIFICATION_SERVER
- **Category:** KofaxMobileID
- **Type:** String

> ⓘ This is a Kofax TotalAgility variable that is updated with the secure(mask) feature.

Verification_Token
- **ID:** VERIFICATION_TOKEN
- **Category:** KofaxMobileID
- **Type:** String

EnableVerification Diagnostics
- **ID:** ENABLEVERIFICATION DIAGNOSTICS
- **Category:** KofaxMobileID

- **Type:** Bool

VerificationPassedSegmentCode
- **ID:** VERIFICATIONPASSEDSEGMENTCODE
- **Category:** KofaxMobileID
- **Type:** String

VerificationFailedSegmentCode
- **ID:** VERIFICATIONFAILEDSEGMENTCODE
- **Category:** KofaxMobileID
- **Type:** String

VerificationOptionalHeaders
- **ID:** VERIFICATIONOPTIONALHEADERS
- **Category:** KofaxMobileID
- **Type:** String(valid json)

VerificationServerDetailsJson
- **ID:** VERIFICATIONSERVERDETAILSJSON
- **Category:** KofaxMobileID
- **Type:** String (valid json)

  Set parameter VerificationServerDetailsJSON with actual values using the following syntax:

```
{'EndPoint1':{'HostName':'','AccessKey':'','SecretToken':''},
'EndPoint2':{'HostName':'','AccessKey':'','SecretToken':''},
'EndPoint3':{'HostName':'','AccessKey':'','SecretToken':''}}
```

Example: To set multiple action code values to parameters VerificationFailedSegmentCode and VerificationPassedSegmentCode, use the following example.

```
VerificationFailedSegmentCode=10,52,60
VerificationPassedSegmentCode=99,89
```

This returns the following for VerificationResult:
- Failed for action codes 10, 52, and 60.
- Passed for action codes 99 and 89.
- Attention for all other action codes.

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
Extraction	If false is specified, only authentication will be performed.	True
Verification	If true, verification will be performed.	False
ExtractPhotoImage	If true is specified, the head shot from the document is returned in extraction field `VerficationPhoto64` in response	False
IDSize	If `IDSize` 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
VerificationServerEndpoint	Specify the Endpoint name provided in the `VerificationServerDetailsJson` variable. The Verification request will sent to this End Point. Example: `VerificationServerEndPoint:"EndPoint1"`	empty
ForceVerification	The new `ForceVerification` parameter sends documents for AID verification even though the Classification has failed. This overrides the existing Verification functionality. The `IDType` parameter must be specified. The `EnableSideCorrection` parameter is ignored.	empty

Input Parameter	Description	Default value
`PassthroughToAID`	When enabled, image processing, classification, and extraction is done at the `AuthenticID` server instead of the Kofax server. The default value is false to use the Kofax server. The following variables are also affected by AuthenticID server processing: • `AutoCropVerification` variable can be set to true to enable image processing at the AuthenticID server. The RAW response from AuthenticID is returned in the `VerificationReserved` field. • `IDSize` variable must be used for license and passport processing because no auto classification is done at the Kofax server. If this setting is not specified, the default behavior is to perform processing at the AuthenticID server. • `EnableLogging` variable will only log AuthenticID processes when `PassthroughToAID` is enabled.	False

Response fields

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

Field Name	Value
VerificationResult	Document verification status (Passed/Fraud/Attention/Unknown) This value is a summary of the tests run on the document.
VerificationTransactionID	This is a unique ID generated for the transaction by the verification server. This value can be used to identify transactions.
VerificationPhoto64	The document holder's photo (head shot) found on the document ID. It is in a base64 string format
VerificationReserved	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 6.4 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

ⓘ 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.

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.

> ⓘ 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 KofaxMobileIDCapture.zip file.
5. Click Import to import the package.

Note the following:

- If the KofaxMobileIDCapture.zip file was already imported as part of ID verification, there is no need to import it again.
- Configure the TotalAgility Server Variables as shown in Configuration with Kofax TotalAgility.

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
`IdType`	Selfie
`TransactionId`	This is the parameter your mobile application can use to pass the transaction ID to ensure Selfie Match functionality is performed.
`LivenessSelfie`	True or False
	If the `LivenessSelfie` 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.
	If the `LivenessSelfie` value is false, the image sent will be verified against the head shot from the document for the specified transaction ID.
	The default value is false.

Response fields

The following fields are returned as the selfie response:

Field Name	Value
`FRMatchResult`	Shows the result after matching the two images (Passed/Failed/Attention)
`FRMatchScore`	Shows the score after matching the two images.
`FRTransactionID`	Transaction ID, which was sent in request.
`FRReserved`	Reserved for Kofax use.

`FRErrorInfo`	Information about errors if there are any.
	Example :
	
	`{"ResponseType":null,"ResponseCode":null,`
	`"StatusCode":null,"ErrorMessage":`
	`"License 'Kofax Mobile ID Capture - Facial Recognition' 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

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

> ⓘ 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.

Face Match

Supports comparison of two face images.

Request parameter:

```
IdType: FaceMatch
```

Example URL Calls

Samples of URL POST requests for the face match are provided in the `Samples` folder where Kofax Mobile ID Capture is installed. These samples are described in this chapter.

Real-Time Transformation Interface

RequestURL

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

Request Headers

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

Request Body

Open RTTI_Request_FM.txt from the `Samples` folder.

Response Body

Open RTTI_Response_FM.txt from the `Samples` folder.

Kofax TotalAgility

> ℹ 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/jsonHost: <servername>Content-Type: application/json
```

Request Body

Open KTA_Request_FM.txt from the `Samples` folder.

Response

Open KTA_Response_FM.txt from the `Samples` folder.