

Kofax Mobile Deposit Capture

Administrator's Guide

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Preface

This guide contains information about installing and configuring the Kofax Mobile Deposit Capture Smart Mobile Component, and assumes that you have a thorough understanding of Windows standards, applications, and interfaces, as well as Kofax Capture and Kofax Transformation Modules

This guide is for solution integrators who are installing or configuring the Kofax Mobile Deposit Capture Smart Mobile Component, or who need a description of the installation procedures and requirements.

Related documentation

In addition to this guide, Kofax Mobile Bill Pay documentation set includes the following:

- Documentation for this product is available [online](#).
- *Real-Time Transformation Interface Administrator's Guide*: Contains essential information about installing and configuring the Real-Time Transformation Interface.
- *Kofax TotalAgility Administrator's Guide*: Contains essential information about installing and configuring Kofax TotalAgility.

Training

Kofax offers both classroom and computer-based training that will help you make the most of your solution. Visit the Kofax Web site 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 Deposit Capture contains a Kofax Transformation Modules project for extracting information from images of checks. It can be used with most commonly encountered check formats. It also includes a Kofax TotalAgility project that performs similar functions.

Kofax Mobile Deposit Capture requires Kofax Transformation Modules 6.0.2.5 or later.

Kofax Mobile Deposit Capture provides an initial configuration of the A2iA CheckReader that is integrated with Kofax Transformation Modules and Kofax TotalAgility. The specifics of the A2iA CheckReader configuration can be changed as needed.

Supported check formats:

- Personal
- Business
- Official, Treasury, Teller
- Certified
- Cashier
- Traveler

What is new in this release?

Kofax Mobile Deposit Capture 1.5 contains the following major new features and enhancements:

Kofax Mobile Deposit Capture on Kofax TotalAgility.

Kofax Mobile Deposit Capture is now supported on Kofax TotalAgility. 7.3 and above.

Return additional parsed MICR fields

Kofax Mobile Deposit Capture 1.5 extracts all the fields extracted in 1.4 and supports several new fields (See [MICR parsing](#) for more information):

- Complete OnUs field
- AccountNumber
- SerialNumber
- RoutingNumber

Return version number

There is now an API that returns the current version number of Kofax Mobile Deposit Capture

New processing string

A new processing string is included in this release. See Image Processing Profile File for details.

New multi-field validation rule

There was already a multi field validation rule covering A2iA_CheckCodeline and A2iA_CheckCodeline_Transit which remains unmodified. This new multi-field validation rule for A2iA_CheckCodeline and its constituent components will validate the complete codeline structure in terms of symbols and length of characters between these symbols. Also additional validation is done to individual components just like Transit field.

What was new in prior releases

Version 1.4

Kofax Mobile Deposit Capture 1.4 contains the following major new features and enhancements:

Check payor name and address

This field provides the name and address of the payor, as per A2iA extracted value.

Check Memoline

This field returns the text in the memo line, as per A2iA extracted value. The memo line is returned as any handwritten note near the keywords "MEMO" or "FOR".

Note `ReturnCheckClassification` must be set to TRUE for this field to be returned.

ReturnCheckClassification

The ReturnCheckClassification feature returns check type information to the user. Kofax Mobile Deposit Capture uses a new KTM API to dynamically enable or disable the document type detection functionality. This capability only applies to US checks.

ReturnImageAnalysis

Kofax Mobile Deposit Capture uses a new KTM API to dynamically enable or disable the A2iA Image Quality (IQA) and Invalidity detection functionality in order to increase performance.

Improved restrictive endorsement performance

The restrictive endorsement is in the back of the check and is hand written. In order to increase the performance and not interfere with the `ImageDimensionMismatch` image quality test, the rear of the image is now isolated in memory and sent to another class named `Check_Rear`. This is optional and can be handled by passing this parameter.

Orientation correction of the rear image by full page OCR has been removed for improved performance. Restrictive Endorsement is still extracted with the darkest half of the check oriented to the top. If this does not cover all cases a new parameter, `ComprehensiveOrientationDetection` can be set to TRUE to ensure Restrictive Endorsement extraction is run in both portrait orientations.

Version 1.3

LAR accuracy

The Legal Amount Recognition (LAR) accuracy has been improved.

New extraction field

The new `ReasonForRejection` field contains the reason for rejection. It is associated with the `CheckUsable` field. The `ReasonForRejection` field will be blank if `CheckUsable` is TRUE.

Restrictive endorsement

New fields denote whether a restrictive endorsement phrase has been written on the back of a check for security purposes. A related parameter, `ReturnRestrictiveEndorsement`, can be set to FALSE to suppress the return of these fields.

new thresholds for image quality assurance (IQA) tests

New thresholds have been implemented for IQA, which will affect how images are measured for quality.

Kofax TotalAgility support

Check Deposit now includes a project that can be executed from within a Kofax TotalAgility process map.

support for multiple languages

A number of additional languages are now supported via a `Country` parameter that specifies one of the following locale for the extraction process. The default locale is US.

- United States
- Singapore
- Australia/New Zealand
- Hong Kong
- Canada
- United Kingdom

Image processing profile file

One image Processing Profile is provided with the Kofax Mobile Deposit Capture project. This is for use with check images captured by mobile cameras to deskew, scale, process the checkfont, etc. to maximize the quality of the image.

An image processing profile is provided with Kofax Mobile Deposit Capture.

The file can be found at the root of the provided Transformation project folder:

`KofaxRemoteDepositCapture-1.5.0\Kofax_Check_Deposit`. The following text file is included:
`ImagePerfectionProfile_CheckDeposit.txt`.

This image perfection profile contains the `_Do90DegreeRotation_9` token, which specifies the output image is to be auto-rotated so that the text is upright and then, if necessary to make the output be

landscape orientation, the output image is rotated an additional 90 degrees clockwise. This profile also contains a `TokenReplaceList`, which is used to specify text changes to be made internally in the `imageperfectionsettings` string for processing images other than the first image in each Web service call.

The first image on a given call is always processed with the `imageperfectionsettings` string exactly as specified in the profile. The `TokenReplaceList` in this profile has the effect of replacing the `_ProcessCheckFront_` token with `_ProcessCheckBack_` for processing the second image posted to Kofax Mobile Deposit Capture, presumably the back side of the check. This profile also has `FrontLengthAssistsAllPageLengths` enabled. `FrontLengthAssistsAllPageLengths` causes the longest dimension of the first processed image to be used to force second and subsequent images processed on the same Web service call to match. For a pair of check images, this has the effect of causing the long dimension of the processed check back to match that of the processed check front exactly.

Note This image perfection profile is supported only for use with Real-Time Transformation Interface 1.8.

Parameters and settings

Note Use an x in front of a parameter name when using Real-Time Transformation Interface, unless stated otherwise. For example "Country" would become "xCountry".

You can set the following parameters:

ReturnCheckClassification

The `ReturnCheckClassification` feature returns check type information to the user. Kofax Mobile Deposit Capture uses a new KTM API to dynamically enable or disable the document type detection functionality. By passing the parameter as `TRUE`, check classification is performed. The default is `FALSE`. This capability only applies to US checks. The following check types are supported:

- Deposit Ticket
- Personal Check
- Business Check
- Money Order
- Traveler's Check
- Pre-Authorized Drafts
- US Saving Bond
- Cashier's Check
- Bank Draft
- Cash out ticket
- Cash in ticket
- Image Replacement Document (IRD)

Following are the check subtypes:

- Two Party Personal
- Two Party Business

- US Government
- US Treasury
- Printed Payrol
- Handwritten Payrol
- Money Orders
- Cashier's Checks
- Loan
- Insurance

Note Use of this feature may impact performance.

ComprehensiveOrientationDetection

Can be set to TRUE to ensure that Restrictive Endorsement is run in both portrait orientations to find the best result, in case the initial estimated orientation (to rotate the half of the check rear with highest black pixel count to the top) is proving unreliable for specific check layouts. The default value is FALSE.

Note Use of this feature may impact performance.

ReturnImageAnalysis

Kofax Mobile Deposit Capture uses a new KTM API to dynamically enable or disable the A2iA Image Quality (IQA) and Invalidity detection functionality in order to increase performance. Passing the parameter as FALSE disables this analysis. The default value is TRUE.

PreferBooleans

This determines whether IQA Failure and Usability Failure results are returned as booleans (TRUE or FALSE, where TRUE indicates a failure) or tri-state values (YES, NO, or NOTDEFINED) which also indicate whether a specific test was actually performed. For boolean return, the associated result for a test that was not performed is returned as FALSE (no failure). Set this flag to FALSE to return the tri-state values. The default value is TRUE.

Country

This parameter is used specifically for international checks. When the parameter is not specified, by default the project will point to US checks. This parameter passes the country to the Kofax Mobile Deposit Capture project to ensure extraction is performed for the correct location. For example, if you are processing Canadian checks, set this parameter to CA.

The US extraction will always run as a backup to produce IQA and Usability values and any data that could not be extracted per country. (See list of restrictions below).

Country parameter values

Country	Country Code
Canada	CA
Australia /New Zealand	AU

Country	Country Code
Singapore	SG
Hong Kong	HK
United Kingdom	UK

A2iA has the following restrictions for the newly supported languages:

- SG - no Codeline (MICR), no Payee Name, no Check Number, no Memoline, no usability tests, no image quality tests
- AU - no Payee Name, no Check Number, no Memoline, no usability tests, no image quality tests
- HK - no Check Number, no Memoline, no usability tests, no image quality tests
- CA - no Payee Name, no Memoline, no Payee Endorsement usability te
- UK - no Check Number, no Memoline, no Payee Endorsement usability test, no image quality tests

PreferLocalizedExtractionIfBlank

This determines whether Kofax Mobile Deposit Capture prefers localized extraction for the country specified, or extraction under a standard profile, in the case where the localized extraction could not find any value. Set this flag to TRUE to prefer the blank values from the localized extraction - this may minimize false positives, but does not provide the best chance of retrieving the desired value. The default value is FALSE.

PreferLocalizedExtractionIfLowerConf

This determines whether Kofax Mobile Deposit Capture prefers localized extraction for the country specified, or extraction under a standard profile, in the case where the localized extraction finds a value that has lower confidence than the standard value. Set this flag to FALSE to prefer the standard extraction if it is more confident - note that the confidence of the standard profile may not be reliable when processing checks that have a layout that is significantly different to that of a US check. The default value is TRUE.

ReturnRestrictiveEndorsement

This determines whether Kofax Mobile Deposit Capture returns a flag of whether a "restrictive endorsement" is present on the rear check image, and the details of the detected endorsement field. Set this flag to FALSE to suppress the return of these fields. The default value is TRUE.

Project details

Kofax Mobile Deposit Capture supports processing of either just an image of the front of the check or an image of the front and image of the rear.

Extracted fields

The following fields are extracted from the check:

Note When an error description is returned for any of the A2iA_CheckCodeline_* fields, that same error should appear in all of the fields that pertain to the check codeline.

Field Name	Description
A2iA_CheckAmount	The amount value on the check. This contains the best estimate of the dollar value of the check and is obtained by considering both the LAR and CAR. This is the value that we recommend that the customer use as the amount of the check.
A2iA_CheckCodeline	The number at the bottom of the check that includes routing number, account number, check number and check amount.
A2iA_CheckDate	The date on the check - machine-printed or handwritten.
A2iA_CheckNumber	The check number printed on the check.
A2iA_CheckPayeeName	The payee name on the check.
A2iA_CheckLAR	Legal Amount Recognition (LAR)-the written amount printed on the check.
A2iA_CheckCAR	Courtesy Amount Recognition (CAR)- the numerical amount printed on the check.
A2iA_CheckCodeline_AuxiliaryOnUs	Auxiliary On-Us Field of MICR line.
A2iA_CheckCodeline_EPC	External Processing Field (EPC) of MICR line.
A2iA_CheckCodeline_Transit	Transit (Routing) number of MICR Line.
A2iA_CheckCodeline_OnUs1 A2iA_CheckCodeline_OnUs2	The On-Us field are convenience parses provided where, ignoring any left-leading onus symbols in the OnUs field, onus1 is the part to the left of any remaining onus symbol and onus2 is the part to the right.
A2iA_CheckCodeline_OnUs	Returns all characters from the MICR, from the transitNumber to the amount (if present), or to the right of the string if the amount is not present. Note A2iA_CheckCodeline_OnUs is only returned for US checks.
A2iA_CheckCodeline_Amount	Amount field of MICR Line.
A2iA_CheckCodeline	MICR line.
ACH_AccountNumber	AccountNumber.
ACH_RoutingNumber	Same as transit number but has no symbols.
ACH_SerialNumber	Same as check number but can have additional spaces.

Other fields

Kofax Mobile Deposit Capture also makes use of these other fields.

Field Name	Description
CheckUsable	Whether the check is considered usable in terms of pixel content, presence of OCR, readability and usability of the MICR including country-specific validations for the Transit (routing number) field.

Field Name	Description
ReasonForRejection	The primary reason for the failure if CheckUsable is returned FALSE. Further reasons can be located in the field alternatives collection for this field. Possible rejection reasons are listed below in the "Overall Usability Decision" section.
RestrictiveEndorsement	A restrictive endorsement on the back of a check, if any, will be returned in this field. Returns the value, confidence, and coordinates of the restrictive endorsement phrase, if detected, otherwise returns blank.
RestrictiveEndorsementPresent	A Boolean to indicate whether the RestrictiveEndorsement field was returned. TRUE if a restrictive endorsement is found on the back of the check.
A2iA_CheckType	This field contains the recognized check type returned by the ReturnCheckClassification feature.
A2iA_CheckSubType	This field contains the recognized check subtype returned by the ReturnCheckClassification feature.
A2iA_CheckMemoline	Returned by the ReturnCheckClassification feature. It returns the text in MEMO or FOR.
A2iA_CheckPayorName AndAddress	A2iA_CheckPayorNameAndAddress provides the name and address lines of the payor, semicolon delimited.
ISUS	ISUS is a boolean field which specifies if it is US or not for KTA Business rules and/or functionality.

Image quality assurance (IQA)

Each of A2iA's image quality tests are returned as Boolean "failure" fields, where true indicates the presence of the particular image defect. Each test uses thresholds to determine whether an image is acceptable. Where specified and applicable, values are from the *Financial Services Technology Consortium - Image Quality and Usability Assurance: Phase II Report*.

Note For more details on IQA fields, please refer to FSTC IQU Phase 1 Image Defect Metrics - 2 May 2005.pdf, which can be found at <http://www.bits.org/publications/doc/FSTCImageQualityPhase0206.pdf>

- IQAFailure_UndersizeImage

```
IQA_imageWidth < 50 OR IQA_imageHeight < 22
```

- IQAFailure_FoldedOrTornDocumentCorners

```
IQA_topleftCornerWidth > 2
IQA_topleftCornerHeight > 2
IQA_bottomleftCornerWidth > 2
IQA_bottomleftCornerHeight > 2
IQA_toprightCornerWidth > 2
IQA_toprightCornerHeight > 2
IQA_bottomrightCornerWidth > 2
IQA_bottomrightCornerHeight > 2
```

- IQAFailure_FoldedOrTornDocumentEdges

```
IQA_topEdgeTearWidth > 8
```

```
IQA_topEdgeTearHeight > 2  
IQA_rightEdgeTearWidth > 2  
IQA_rightEdgeTearHeight > 4  
IQA_bottomEdgeTearWidth > 8  
IQA_bottomEdgeTearHeight > 2  
IQA_leftEdgeTearWidth > 2  
IQA_leftEdgeTearHeight > 4
```

- IQAFailure_DocumentFramingError

```
IQA_additionalLeftScanLinesWidth > 1  
IQA_additionalTopScanLinesHeight > 1  
IQA_additionalRightScanLinesWidth > 1  
IQA_additionalBottomScanLinesHeight > 1
```

- IQAFailure_DocumentSkew

```
IQA_documentSkewAngle > 30 OR IQA_documentSkewAngle < -30
```

- IQAFailure_OversizeImage

```
IQA_imageWidth > 90 OR IQA_imageHeight > 45
```

- IQAFailure_PiggybackDocument

- IQAFailure_ImageTooLight

```
IQA_percentBlackPixels < 21  
IQA_percentAverageImageBrightness > 900  
IQA_percentAverageImageContrast < 70
```

- IQAFailure_ImageTooDark

```
IQA_percentBlackPixels > 300
```

- IQAFailure_HorizontalStreaks

```
IQA_blackStreakCount > 3  
IQA_blackStreakMaxHeight > 24  
IQA_grayLevelStreakCount > 5  
IQA_grayLevelStreakMaxHeight > 50
```

- IQAFailure_BelowMinFrontImageSize

```
IQA_compressedFrontImageSize < 600 (Bitonal)  
IQA_compressedFrontImageSize < 5000 (Grayscale)
```

- IQAFailure_AboveMaxFrontImageSize

```
IQA_compressedFrontImageSize > 90000 (Bitonal)  
IQA_compressedFrontImageSize > 1000000 (Grayscale)
```

- IQAFailure_BelowMinRearImageSize*

```
IQA_compressedFrontImageSize < 600 (Bitonal)  
IQA_compressedFrontImageSize < 5000 (Grayscale)
```

- IQAFailure_SpotNoise

```
IQA_averageSpotNoiseGroupingsPerSquareInch > 575
```

- IQAFailure_AboveMaxRearImageSize*

```
IQA_compressedFrontImageSize > 90000 (Bitonal)  
IQA_compressedFrontImageSize > 1000000 (Grayscale)
```

- IQAFailure_SpotNoise
- IQAFailure_ImageDimensionMismatch*

```
IQA_frontRearWidthDifference > 4  
IQA_frontRearHeightDifference > 5
```

- IQAFailure_CarbonStrip
- IQAFailure_OutOfFocus

Following are the IQA Raw values:

- IQA_imageWidth
- IQA_imageHeight
- IQA_topleftCornerWidth
- IQA_topleftCornerHeight
- IQA_bottomleftCornerWidth
- IQA_bottomleftCornerHeight
- IQA_toprightCornerWidth
- IQA_toprightCornerHeight
- IQA_bottomrightCornerWidth
- IQA_bottomrightCornerHeight
- IQA_topEdgeTearWidth
- IQA_topEdgeTearHeight
- IQA_rightEdgeTearWidth
- IQA_rightEdgeTearHeight
- IQA_bottomEdgeTearWidth
- IQA_bottomEdgeTearHeight
- IQA_leftEdgeTearWidth
- IQA_leftEdgeTearHeight
- IQA_additionalLeftScanLinesWidth
- IQA_additionalTopScanLinesHeight
- IQA_additionalRightScanLinesWidth
- IQA_additionalBottomScanLinesHeight
- IQA_documentSkewAngle
- IQA_percentBlackPixels
- IQA_percentAverageImageBrightness
- IQA_percentAverageImageContrast
- IQA_blackStreakCount
- IQA_blackStreakMaxHeight
- IQA_grayLevelStreakCount
- IQA_grayLevelStreakMaxHeight
- IQA_averageSpotNoiseGroupingsPerSquareInch

- IQA_frontRearWidthDifference*
- IQA_frontRearHeightDifference*
- IQA_carbonStripHeight*
- IQA_imageFocusScore
- IQA_compressedFrontImageSize
- IQA_compressedRearImageSize*

In addition, A2iA provides a series of usability tests which will be exposed via the following Boolean fields:

- UsabilityFailure_CAR
- UsabilityFailure_LAR
- UsabilityFailure_Signature
- UsabilityFailure_PayeeName
- UsabilityFailure_Date
- UsabilityFailure_Codeline
- UsabilityFailure_PayeeEndorsement*

Note Items marked with an asterisk are only applicable to the rear of a check and are only tested if both a front and rear are provided.

MICR parsing

Kofax Mobile Deposit Capture will read and parse the MICR line on a check. Extracted MICR components are:

- Amount Field
- OnUs Field
- OnUs1
- OnUs2
- Transit Field (Routing Number)
- EPC
- Auxiliary OnUs Field
- Transit symbol
- Amount symbol
- ACH_AccountNumber
- ACH_RoutingNumber
- ACH_SerialNumber

The script logic used for the field for parsing is as below:

ACH_SerialNumber

1. If AuxOnUs exists -> checkNumber = AuxOnUs (business check)
2. If exists(onus2) and (len(onus1) > len(onus2)) -> checkNumber = onus2 (most common personal checks)
3. If exists(onus2) and (len(onus2) > len(onus1)) -> checkNumber = onus1 (most common Western Aux)
4. If len(onus1) >= 14 -> checkNumber = first four digits of onus1


```
(the industry's so-called "field4" referenced in X9.37)
(the lesser common Western Aux including space, dash and undelimited)
5. Return null as default
```

ACH_AccountNumber

```
1. If AuxOnUs exists -> accountNumber = onus1
   (business check)
2. If exists(onus2) and (len(onus1) > len(onus2)) -> accountNumber = onus1
   (most common personal checks)
3. If exists(onus2) and (len(onus2) > len(onus1)) -> accountNumber = onus2
   (most common Western Aux)
4. If len(onus1) >= 14 -> accountNumber = all digits from position 5 up of onus1
   (the rest of it)
   (the lesser common Western Aux including space, dash and not delimited)
5. accountNumber = onus1
   (Items that probably aren't personal checks or just don't have check numbers on
   them)
```

ACH_RoutingNumber

Same as Transit.

A2iA_CheckCodeline_OnUs

Fields OnUS1+, +OnUS2.

Here are some field examples:

A2iA_CheckCodeline as returned:

```
{
  "name": "A2iA_CheckCodeline",
  "text": ",40348,.000000518.398687861,040215",
}
```

Parsed fields:

```
{
  "name": "A2iA_CheckCodeline",
  "text": ",40348,.000000518.398687861,040215",
}
Parsed fields:
{
  "name": "ACH_AccountNumber",
  "text": "398687861",
},
{
  "name": "ACH_RoutingNumber",
  "text": "000000518",
},
{
  "name": "ACH_SerialNumber",
  "text": "40348",
},
{
  "name": "A2iA_CheckCodeline_OnUs",
  "text": "398687861,040215",
}
```

In addition the following four field are parsed from the MICR code line

- **Complete OnUs field:** (including any OnUs characters inside it) as a new KTM field. The previous version had Onus1 and Onus2 as individual components.
- **AccountNumber:** This is a dedicated AccountNumber business field where Kofax Mobile Deposit Capture has intelligently figured out the Account Number. The account number can be Auxiliary, or it can be number in OnUs.
- **SerialNumber:** This is the SerialNumber field where Kofax Mobile Deposit Capture has determined the check's serial number as best it can. The serial number is the essentially the same thing as the check number, but it can have additional spaces. The serial number is assumed to be the number in the OnUs MICR field that either matches or seems most likely to match a typical serial number.

Note The number in the AuxOnUs field, if present, is highly likely to be a check and/or serial number.

- **RoutingNumber:** The routing number is same as the transit number but has no symbols.

Overall usability decision

The field `CheckUsable` will return a Boolean representing the overall decision of whether this check is usable. Based on the Financial Services Technology Consortium reports the most important factors are usability of the MICR and whether the image is too dark or too light. Thus the check will be considered usable unless any of the following are true:

- A2iA does not think the image is a check at all
- A routing number is not present in the extracted codeline
- Any of the following fields return true:
 - `UsabilityFailure_Codeline`
 - `IQAFailure_ImageTooLight`
 - `IQAFailure_ImageTooDark`

If the `CheckUsable` field is set to false, Kofax Mobile Deposit Capture will return one of the following reasons.

- `ImageTooLight` (alert message: Check image is too light.)
- `ImageTooDark` (alert message: Check image is too dark.)
- `CodeLineUsabilityFailure` (alert message: Codeline is not usable.)
- `NotRecognizedAsCheck` (alert message: Deposit amount is not recognized.)
- `InvalidTransit` (alert message: Transit number is invalid.)
- `InvalidCodeline` (alert message: Codeline is invalid.)

Multi-field validation rule

The multi-field validation rule for `A2iA_CheckCodeline` and its constituent components will validate the complete codeline structure in terms of symbols and length of characters between these symbols. Also additional validation is done to individual components just like Transit field.

The Multi-field validation rule has advantages because the prior rule failed only if Transit (the routing number) did not match the checksum calculation. There could be other problems with the codeline (incorrect usage of symbols, incorrect length numbers between symbols) and these were not getting validated. So if routing number is good but the rest of the codeline was invalid, under the prior rule

the codeline would still be regarded as valid. These special cases are now handled by the multi-field validation rule.

The Multi-field validation rule will ensure these symbols are correctly placed on the check (starting and ending) and also count the length of the number between these symbols.

For example: ,987654321,.98654321.543210987564321,/0987654321/

Where , . / are the symbols for the individual fields. Note that we have assumed that the spec above is incorrect and that there will be an OnUs (.) symbol at the end of the Auxiliary OnUs section, not an Amount (/) symbol. Based on the individually parsed components we expect the following codeline:

,<AuxOnUs>,<EPC>.<Transit>.<OnUs1>,<OnUs2>/<Amount>/

Chapter 2

Extraction

The general flow is as follows:

- Classify to the correct subclass based on Country parameter
- Run generic (United States) extraction on all checks regardless of specified country
 - Dynamically enable the correct A2iA locator (front only vs front and back)
 - Dynamically enable or disable image analysis and document type detection
 - Rotate the back of the check in memory
 - Run the US A2iA locator
 - Gather results and disable the check classification locators if appropriate
- Run the localized A2iA locator
- Gather results and update the header fields with appropriate localized data
- Parse the codeline and add the parsed codeline fields for the appropriate country
- Run restrictive endorsement analysis for the appropriate country
- Run check usability analysis for the appropriate country
- Run the check classification locators if appropriate

Classify to the correct subclass based on Country parameter

The Country parameter must be set when processing a non-US check. This is a two-letter country code which defaults to US if not specified in the request. For a list of supported countries, please consult the Kofax Mobile Deposit Capture Administrator's Guide.

The Document_BeforeClassifyXDoc() event analyzes the parameter value and classifies to the appropriate subclass.

Run generic (United States) extraction on all checks regardless of specified country

Even though non-US checks begin extraction on the lower-level subclass for the appropriate country, the locators from the top level Check class (including A2iA locators set to US locale) are inherited and will run first. US extraction is run for all checks to provide fallback values for fields that are simply not supported by A2iA for certain countries. Also, this provides the possibility of running image analysis even though technically that is not supported by A2iA for most countries.

To provide some context, here are the documented A2iA field restrictions:

- SG - no Codeline (MICR), no Payee Name, no Check Number, no Memoline, no usability tests, no image quality tests
- AU - no Payee Name, no Check Number, no Memoline, no usability tests, no image quality tests
- HK - no Check Number, no Memoline, no usability tests, no image quality tests
- CA - no Payee Name, no Memoline, no Payee Endorsement usability test
- UK - no Check Number, no Memoline, no Payee Endorsement usability test, no image quality tests

As you can see this could be quite restrictive from a business standpoint if we accepted A2iA's limitations at face value. Kofax has tested the US locator and found that it can often pick up the loose values not supported / not extracted for the local country. Therefore Kofax Mobile Deposit Capture runs the US extraction first and provides options for when to override those with local results (from the A2iA locators on the subclass that are set to the specific country locale).

Dynamically enable the correct A2iA locator (front only vs front and back)

The next logical decision comes from a limitation of A2iA, where a locator needs to be hard-coded to accept a single page (front of a check only) or two pages (front and back of a check). Even though KTM 6.0.2.5 and KTA 7.3 allow the project to edit some A2iA configuration properties dynamically from script (see below) it is not possible to define the number of pages in the locator and appropriate zones in a dynamic way.

Therefore, two locators are defined in the KTM project for each country - one that handles a single page document, and one that handles a duplex document. The `SL_EnableCorrectA2iALocator_US` script locator enables and disables the appropriate locator based on looking at the number of pages in the incoming document, using the Preserve flag.

Dynamically enable or disable image analysis and document type detection

As mentioned above, KTM 6.0.2.5 and KTA 7.3 brought in functionality to allow Transformation developers to edit the properties of an A2iA locator from script, and is the reason why these are the lowest supported versions of Transformation for Kofax Mobile Deposit Capture.

This functionality is used firstly to enable or disable image analysis, which encompasses both IQA (image quality analysis) and usability (document usability tests). If the parameter `ReturnImageAnalysis` is set to `TRUE`, the image analysis features of A2iA are run, otherwise if set to `FALSE` they are disabled for performance reasons. The default value for this parameter is `TRUE` (image analysis is always run).

Secondly, the functionality is used to enable or disable document type detection feature of A2iA, which is a big part of the check classification functionality. If the parameter `ReturnCheckClassification` is set to `TRUE`, the document type detection feature of A2iA is run, otherwise if set to `FALSE` it is disabled for performance reasons. The default value for this parameter is `FALSE` (check classification is not run).

For performance reasons, the A2iA locator must be defined as a global object, which is initialized once per project load in the `Application_InitializeScript()` event, to avoid incurring a time delay that does not scale well if it were loaded for every document. Using the custom API, the properties are set on the A2iA locators from the same script function as above (`SL_EnableCorrectA2iALocator_US`).

Rotate the back of the check in memory

During the image processing stage before Kofax Mobile Deposit Capture extraction, eVRS is supposed to orient the check correctly so both sides are landscape and the back of the check has the signature on the right. However this is not always possible, for example for PDF documents in the KTA workflow. Luckily, Transformation has the ability to rotate locally in the memory of the XDocument layer.

We cannot use the common feature of the full page OCR engine to rotate based on whether it thinks the words are realistic, since the heavy usage of handwriting on checks renders that technique very unreliable. Full page OCR is suppressed in Kofax Mobile Deposit Capture for all cases except when needed for extra check classification on the front, and even in that case, a flag is set to prevent the OCR engine from rotating the page.

However, the back of the check can be rotated based on the relative blackness of one half of the image compared with the other. The side with the signature and endorsement will in most cases be darker than the side without, therefore simple usage of a GetBlackness() method within the Cascade Image library allows the project to rotate the back so that the signature is on the right (SL_RotateFromBlackness).

If the front page comes into Kofax Mobile Deposit Capture incorrectly rotated, nothing realistically can be done. There is no clear division of blackness that allow us to use that technique.

Run the US A2iA locator

The appropriate US A2iA locator (either front only or front and back) can now be run to collect the header fields, with image analysis and document type detection also running if appropriate:

- A2iA_FrontAndBack_US
- A2iA_FrontOnly_US

Gather results and disable the check classification locators if appropriate

The results are gathered afterwards into a script locator SL_A2iAResults_US which acts as the master container for all the field data, regardless of which A2iA locator ran.

In this locator, the decision is also made whether to enable or disable the rules-based check classification locators (Advanced Zone Locator, Format Locators, a Barcode Locator and extra script). These locators will only run if the Country parameter is set to US and if the ReturnCheckClassification parameter is set to TRUE

Run the localized A2iA locator

If a non-US Country was specified, this is the point at which the localized extraction runs on the the subclass. Just like for US, the project first determines which A2iA locator to run (front-only or front-and-back) based on the page count of the XDocument, disabling the other one. Then that A2iA locator runs. See the example below for locators on the UK class.

- SL_EnableCorrectAi2ALocator_UK
- A2iA_FrontAndBack_UK
- A2iA_FrontOnly_UK

Gather results and update the header fields with appropriate localized data

Just like the US extraction, results are gathered afterwards into a script locator (for example, SL_A2iAResults_UK) which acts as the master container for all the field data, regardless of which A2iA locator ran.

This locator also determines on a field-by-field basis whether to keep the data extracted by localized A2iA locator configured for the specified Country, or fall back to the data extracted by the US A2iA locator. It does this per the following parameter values

- **PreferLocalizedExtractionIfBlank:** If set to TRUE, Kofax Mobile Deposit Capture will prefer the value from the specific country's A2iA locator even if that value is blank, and extraction of the same field in the US A2iA locator produced a value. For the "unsupported" fields mentioned earlier, values will never be extracted. Setting this parameter to TRUE may minimize false positives but is not recommended as certain business-critical fields may never be extracted for these countries. For example, the Codeline (MICR) for Singapore checks would never be extracted, whereas the US profile reads a Singapore MICR perfectly well. The default value for PreferLocalizedExtractionIfBlank is FALSE.
- **PreferLocalizedExtractionIfLowerConf** If set to TRUE, Kofax Mobile Deposit Capture will prefer the value from the specific country's A2iA locator even if that value has a lower confidence than the same field extracted in the US A2iA locator. This is the recommended setting, since the confidence of the US A2iA locator may not be reliable when processing checks that have a layout that is significantly different to that of a US check. If PreferLocalizedExtractionIfLowerConf is set to FALSE, the highest confidence value always wins. The default value for PreferLocalizedExtractionIfLowerConf is TRUE.

Gather results and update the header fields with appropriate localized data

Just like the US extraction, results are gathered afterwards into a script locator (for example, **SL_A2iAResults_UK**) which acts as the master container for all the field data, regardless of which A2iA locator ran.

This locator also determines on a field-by-field basis whether to keep the data extracted by localized A2iA locator configured for the specified Country, or fall back to the data extracted by the US A2iA locator. It does this per the following parameter values:

- **PreferLocalizedExtractionIfBlank** IF set to TRUE, Kofax Mobile Deposit Capture will prefer the value from the specific country's A2iA locator even if that value is blank, and extraction of the same field in the US A2iA locator produced a value. For the "unsupported" fields mentioned earlier, values will never be extracted. Setting this parameter to TRUE may minimize false positives but is not recommended as certain business-critical fields may never be extracted for these countries. For example, the Codeline (MICR) for Singapore checks would never be extracted, whereas the US profile reads a Singapore MICR perfectly well. The default value for PreferLocalizedExtractionIfBlank is FALSE.
- **PreferLocalizedExtractionIfLowerConf** IF set to TRUE, Kofax Mobile Deposit Capture will prefer the value from the specific country's A2iA locator even if that value has a lower confidence than the same field extracted in the US A2iA locator. This is the recommended setting, since the confidence of the US A2iA locator may not be reliable when processing checks that have a layout that is significantly different to that of a US check. If PreferLocalizedExtractionIfLowerConf is set to FALSE, the highest confidence value always wins. The default value for PreferLocalizedExtractionIfLowerConf is TRUE

Parse the codeline and add the parsed codeline fields for the appropriate country

The next step is to take A2iA's full Codeline (MICR) field and parse it into useful components based on the separation characters in the full string. This is done in the ParseCodeline() Project-level helper function. The component fields parsed in this function are as follows:

- A2iA_CheckCodeline_AuxiliaryOnUs - the auxiliary "on us" section often found at the beginning of business checks
- A2iA_CheckCodeline_EPC - the optional single-digit EPC character
- A2iA_CheckCodeline_Transit - the transit field that contains the routing number or sort code
- A2iA_CheckCodeline_OnUs1 - the first meaningful piece of data from the "on us" section
- A2iA_CheckCodeline_OnUs2 - the second meaningful piece of data from the "on us" section
- A2iA_CheckCodeline_Amount - the amount field sometimes found at the end of a business check

Other business fields calculated in this function are as follows:

- A2iA_CheckCodeline_OnUs - the complete "on us" field including all "on us" symbols
- ACH_AccountNumber - the result from business logic that determines which meaningful value in the "on us" section is the account number
- ACH_RoutingNumber - the routing number from the transit field, minus the check digit
- ACH_SerialNumber - the serial number as evaluated by looking in the "on us" field and at the independently-extracted check number

Run restrictive endorsement analysis for the appropriate country

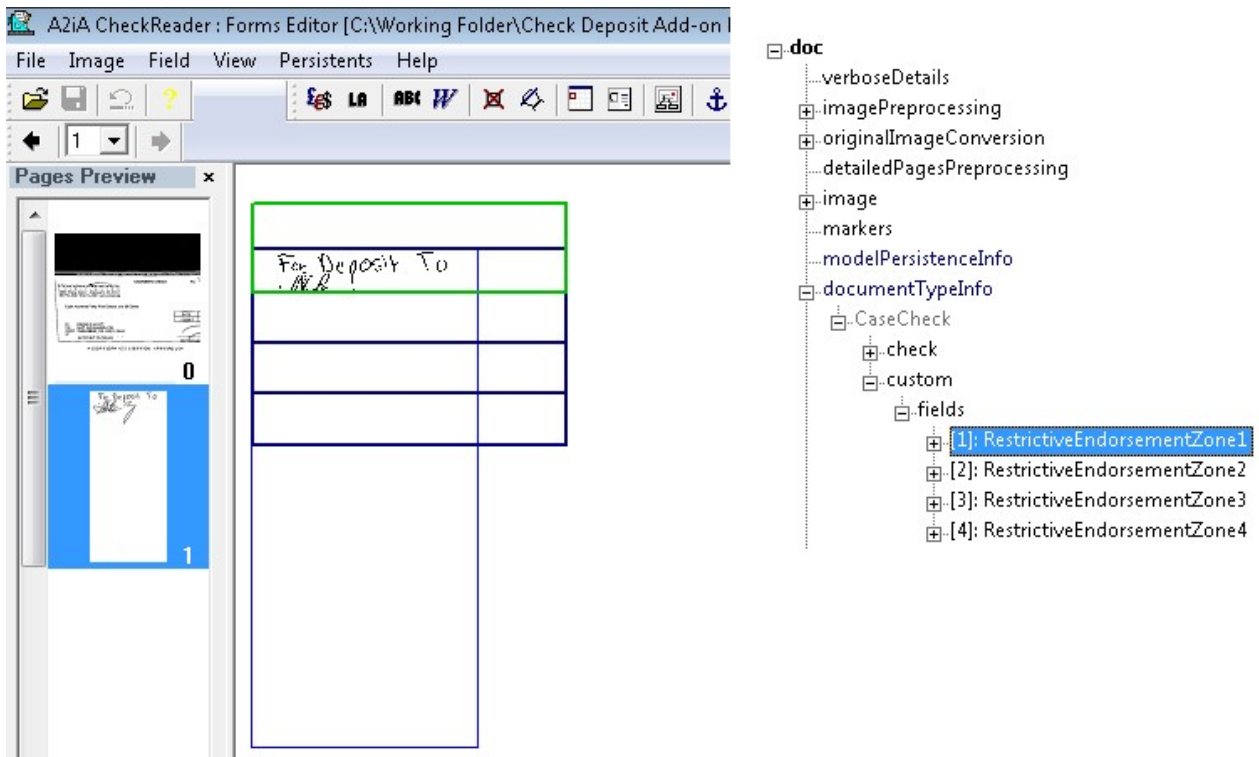
Fields are implemented to denote whether a "restrictive endorsement" phrase has been written on the back of a check for security purposes:

- RestrictiveEndorsement - returns the value, confidence, and coordinates of the restrictive endorsement phrase, if detected, otherwise returns blank.
- RestrictiveEndorsementPresent - returns TRUE or FALSE depending on whether a restrictive endorsement was detected.

A parameter, ReturnRestrictiveEndorsement, can be set to FALSE to suppress the extraction of these fields and return N/A instead. The default value of the parameter is TRUE.

If a check front only is passed to the Transformation project, both fields will return the value N/A.

Restrictive endorsements are extracted using a series of overlapping zones in A2iA to capture the text closest the center-point of each zone, covering approximately 1/3 of the back of the check once rotated into an upright position. The handwritten words are located using a country-specific dictionary of individual words.



Additional script evaluates the words to see if they form a supported phrase, and normalizes confidence based upon the number of matching words in the overall text line:

<p>For deposit only with loving grace A2iA SCORE (for the line): 40%</p>
<p>Analyzing: FOR DEPOSIT ONLY Words in Phrase: 3 Words in Line: 6 Confidence: 40% / (3 / 6): 80%</p>

This A2iA extraction takes place on a temporary XDocument held in memory, which contains only the rear page rotated into an upright position, on a separate Check_Rear class:



Run check usability analysis for the appropriate country

Fields are implemented to denote whether a check is "usable" based on select criteria:

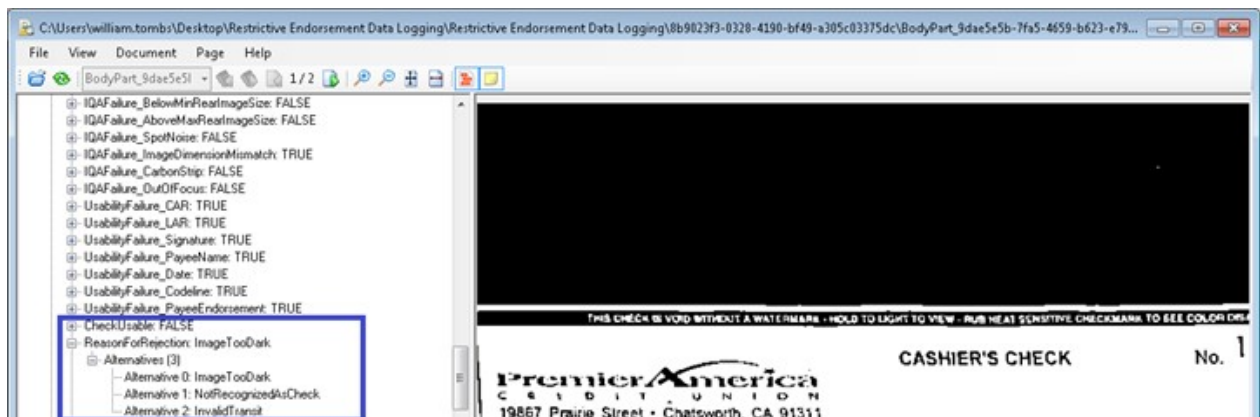
- CheckUsable - returns whether a check is considered "usable" based on the criteria below, can be TRUE or FALSE
- ReasonForRejection - returns the reason if the check is not considered usable, otherwise blank

The Transformation project returns one of the following values to the ReasonForRejection field value, in the following priority order:

- ImageTooLight - the "image too light" IQA test failed
- ImageTooDark - the "image too dark" IQA test failed
- CodeLineUsabilityFailure - the codeline (MICR) was considered unusable by A2iA, usually because it is too close to the edge of the check
- NotRecognizedAsCheck - the text on the document could not be interpreted as hand print / cursive or machine print
- InvalidTransit - the Transit field (commonly containing routing number) was either empty or invalid for the active country
- InvalidCodeLine - the MICR failed validation

These are effectively IDs - the app can display a custom message based on receiving one of these IDs.

If "field alternatives" are requested in the web service response, additional rejection reasons can be accessed from the field alternatives collection:



Run the check classification locators if appropriate

If the ReturnCheckClassification parameter is set to TRUE, not only is the A2iA document type returned, but logic also determines the sub type, memo line and payor name and address.

The following fields are populated:

- A2iA_CheckType - the high-level type from the A2iA document type result

- A2iA_CheckSubType - the sub-type as determined by Transformation extraction
- A2iA_CheckMemoline - the memo line as determined by a combination of A2iA and Transformation extraction
- A2iA_CheckPayorNameAndAddress - the payor name and address as determined by a combination of A2iA and Transformation extraction

The following locators are used to extract these fields:

-  AZL
-  FL_MemoLine
-  SL_MemoLine
-  SL_MoneyOrder_Cashiers
-  BL_US_Treasury
-  FL_US_Treasury
-  SL_US_Treasury
-  FL_US_Government
-  SL_US_Government
-  FL_Insurance_Attorney
-  SL_Insurance_Attorney
-  FL_PrintedPayroll
-  FL_Payee2-Business
-  FL_Payee2_Target
-  SL_TwoParty
-  SL_Printed_Handwritten_Default_Payroll

Chapter 3

Installation and configuration for Real-Time Transformation Interface and Kofax TotalAgility projects

Follow the instructions in this chapter to install a new instance of Kofax Mobile Deposit Capture. To upgrade from an earlier version simply remove that version and continue with these instructions.

Kofax Mobile Deposit Capture is distributed as a zip file that includes the following:

- The Kofax Transformation Modules project folder which contains the project referenced in this guide.
- The Kofax Mobile Deposit Capture 1.5 Kofax Transformation Modules project. This project is compatible with Kofax Transformation Modules 6.0.2.5 or higher.
- Kofax TotalAgility package folder which contains the Kofax TotalAgility project import file.

1. Basic installation

- a. Extract the file `KofaxRemoteDepositCapture.x.x.x.zip` where `x.x.x` is the version you are installing.
- b. Copy the entire contents of the extracted project folder to a shared drive where it is accessible to all your servers.

2. Copy the entire project folder to the system where it will be used.

3. Configure Kofax Mobile Deposit Capture for Real-Time Transformation Interface

- a. Copy the project files to the server.
- b. In the Kofax Transformation Modules project folder, open `Kofax_Check_Deposit.fpr`.
- c. If using Real-Time Transformation Interface, add a reference to the project folder's `fpr` file to the `web.config`. See Real-Time Transformation Interface documentation for more details. Configure the Transformation project for the intended platform:

4. Configure Kofax Mobile Deposit Capture in the Kofax TotalAgility Interface

- a. Install the latest version of Kofax TotalAgility 7.3 or above. This patch supports the decryption of the Biller Databases. See www.kofax.com/support, for information about patches.
- b. Copy the `KofaxCheckDeposit.zip` file in the Kofax TotalAgility package folder from the project to the shared server where Kofax TotalAgility is installed.
- c. Login to the Kofax TotalAgility Web application on the server where Kofax TotalAgility is installed.
- d. Click on the Packages link on the home page.
- e. Click on the Import Package link on the Packages page.

- f. Click **Browse** to select the above mentioned Kofax Mobile Deposit Capture Kofax TotalAgility package.
- g. Verify all the processes and other Kofax TotalAgility project components are imported.
- h. Click on **Import**.
- i. Click on **Close**.
- j. Verify Kofax Mobile Deposit Capture and Kofax Mobile Deposit Capture sync process are displayed in the Process section.

Using Kofax Mobile Deposit Capture with companion products

Kofax Real-Time Transformation Interface

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 It is also possible for the data to be returned as XML.

Example URL call

Real-Time Transformation Interface

The Kofax Mobile SDK includes functionality to be able to crop, classify, and clean up images of supported documents. See Mobile SDK documentation for more detail. The following provides specific examples of how to call Real-Time Transformation Interface for extraction of a check.

RequestURL

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

Request headers

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

Request body

```
-----acebdf13572468
Content-Disposition: form-data; name="xCountry"

US
-----acebdf13572468
Content-Disposition: form-data; name="xReturnCheckClassification"

true
-----acebdf13572468
```

```
Content-Disposition: form-data; name="fieldNameHere"; filename="Laura_Wilson_Check.tif"
Content-Type: image/tiff
```

```
<Binary Image Data Will Be Here >
-----acebdf13572468--
```

Response

```
{
  "extractionClass": "Check",
  "classificationResult": [
    {
      "class": "Check",
      "confidence": 1.0
    }
  ],
  "fields": [
    {
      "name": "A2iA_CheckAmount",
      "text": "1701.00",
      "valid": true,
      "errorDescription": "",
      "left": 988,
      "top": 206,
      "height": 38,
      "width": 145,
      "pageIndex": 0,
      "confidence": 0.882,
      "formattingFailed": false,
      "fieldAlternatives": []
    },
    {
      "name": "A2iA_CheckCodeline",
      "text": ".000067895.12345678,",
      "valid": false,
      "errorDescription": "Transit field does not meet checksum requirement.",
      "left": 78,
      "top": 470,
      "height": 28,
      "width": 543,
      "pageIndex": 0,
      "confidence": 0.979,
      "formattingFailed": false,
      "fieldAlternatives": []
    },
    {
      "name": "A2iA_CheckDate",
      "text": "08-05-2073",
      "valid": true,
      "errorDescription": "",
      "left": 696,
      "top": 103,
      "height": 50,
      "width": 239,
      "pageIndex": 0,
      "confidence": 0.608,
      "formattingFailed": false,
      "fieldAlternatives": []
    },
    {
      "name": "A2iA_CheckNumber",
      "text": "1001",
      "valid": true,
      "errorDescription": ""
    }
  ]
}
```

```
"left": 1061,
"top": 47,
"height": 24,
"width": 65,
"pageIndex": 0,
"confidence": 1.0,
"formattingFailed": false,
"fieldAlternatives": []
},
{
  "name": "A2iA_CheckPayeeName",
  "text": "IIA",
  "valid": false,
  "errorDescription": "The field extraction was not certain.",
  "left": 306,
  "top": 189,
  "height": 18,
  "width": 57,
  "pageIndex": 0,
  "confidence": 0.034,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "A2iA_CheckLAR",
  "text": "1701.00",
  "valid": true,
  "errorDescription": "",
  "left": 169,
  "top": 232,
  "height": 53,
  "width": 589,
  "pageIndex": 0,
  "confidence": 0.6869403,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "A2iA_CheckCAR",
  "text": "1707.00",
  "valid": true,
  "errorDescription": "",
  "left": 988,
  "top": 206,
  "height": 38,
  "width": 145,
  "pageIndex": 0,
  "confidence": 0.6462318,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "A2iA_CheckCodeline_AuxiliaryOnUs",
  "text": "",
  "valid": false,
  "errorDescription": "Transit field does not meet checksum requirement.",
  "left": 78,
  "top": 470,
  "height": 28,
  "width": 543,
  "pageIndex": 0,
  "confidence": 0.979,
  "formattingFailed": false,
  "fieldAlternatives": []
}
```

```
},
{
  "name": "A2iA_CheckCodeline_EPC",
  "text": "",
  "valid": false,
  "errorDescription": "Transit field does not meet checksum requirement.",
  "left": 78,
  "top": 470,
  "height": 28,
  "width": 543,
  "pageIndex": 0,
  "confidence": 0.979,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "A2iA_CheckCodeline_Transit",
  "text": "000067895",
  "valid": false,
  "errorDescription": "Transit field does not meet checksum requirement.",
  "left": 78,
  "top": 470,
  "height": 28,
  "width": 543,
  "pageIndex": 0,
  "confidence": 0.979,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "A2iA_CheckCodeline_OnUs1",
  "text": "12345678",
  "valid": false,
  "errorDescription": "Transit field does not meet checksum requirement.",
  "left": 78,
  "top": 470,
  "height": 28,
  "width": 543,
  "pageIndex": 0,
  "confidence": 0.979,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "A2iA_CheckCodeline_OnUs2",
  "text": "",
  "valid": false,
  "errorDescription": "Transit field does not meet checksum requirement.",
  "left": 78,
  "top": 470,
  "height": 28,
  "width": 543,
  "pageIndex": 0,
  "confidence": 0.979,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "A2iA_CheckCodeline_Amount",
  "text": "",
  "valid": false,
  "errorDescription": "Transit field does not meet checksum requirement.",
  "left": 78,
  "top": 470,
```



```
"height": 28,
"width": 543,
"pageIndex": 0,
"confidence": 0.979,
"formattingFailed": false,
"fieldAlternatives": []
},
{
  "name": "IQA_ImageWidth",
  "text": "60",
  "valid": true,
  "errorDescription": "",
  "left": 0,
  "top": 0,
  "height": 0,
  "width": 0,
  "pageIndex": 0,
  "confidence": 0.0,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "IQA_ImageHeight",
  "text": "27",
  "valid": true,
  "errorDescription": "",
  "left": 0,
  "top": 0,
  "height": 0,
  "width": 0,
  "pageIndex": 0,
  "confidence": 0.0,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
  "name": "IQA_TopLeftCornerWidth",
  "text": "0",
  "valid": true,
  "errorDescription": "",
  "left": 0,
  "top": 0,
  "height": 0,
  "width": 0,
  "pageIndex": 0,
  "confidence": 0.0,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
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  "text": "0",
  "valid": true,
  "errorDescription": "",
  "left": 0,
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  "width": 0,
  "pageIndex": 0,
  "confidence": 0.0,
  "formattingFailed": false,
  "fieldAlternatives": []
},
{
```

```
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"fieldAlternatives": []
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"valid": true,
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"top": 0,
"height": 0,
"width": 0,
"pageIndex": 0,
"confidence": 0.0,
"formattingFailed": false,
"fieldAlternatives": []
},
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"text": "0",
"valid": true,
"errorDescription": "",
"left": 0,
"top": 0,
"height": 0,
"width": 0,
```

```
"pageIndex": 0,
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"fieldAlternatives": []
},
{
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  "text": "0",
  "valid": true,
  "errorDescription": "",
  "left": 0,
  "top": 0,
  "height": 0,
  "width": 0,
  "pageIndex": 0,
  "confidence": 0.0,
  "formattingFailed": false,
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},
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  "width": 0,
  "pageIndex": 0,
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  "width": 0,
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  "width": 0,
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  "valid": true,
  "errorDescription": "",
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  "top": 0,
  "height": 0,
  "width": 0,
  "pageIndex": 0,
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}
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},
{
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  "width": 0,
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  "top": 0,
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  "width": 0,
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  "pageIndex": -1,
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  "fieldAlternatives": []
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  "name": "ReasonForRejection",
  "text": "InvalidTransit",
  "valid": true,
  "errorDescription": "",
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"height": -1,
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  "formattingFailed": false,
  "fieldAlternatives": []
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  "height": -1,
  "width": -1,
  "pageIndex": -1,
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  "width": 0,
  "pageIndex": 0,
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  "text": "TwoPartyBusiness",
  "valid": true,
  "errorDescription": "",
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  "width": -1,
  "pageIndex": -1,
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{
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"valid": true,
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"width": 69,
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"text": "KOFAX;15211 LAGUNA CANYON RD;IRVINE,CA 92618;(949)783-1000;",
"valid": true,
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  "formattingFailed": false,
  "fieldAlternatives": []
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  "valid": true,
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  "confidence": 1.0,
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  "fieldAlternatives": []
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  "text": "True",
  "valid": true,
  "errorDescription": "",
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  "pageIndex": -1,
  "confidence": 1.0,
  "formattingFailed": false,
  "fieldAlternatives": []
}],
"sessionKey": "8782fb70-c391-4abc-a4fd-2c4ba8120c84",
"environmentId": null,
"instanceId": null,
"documentId": "298ae727-6411-435d-88f4-8feb2b8fd935",
"words": null,
"processedImages": null,
"result": "Success",
"errorType": "None",
"errorDescription": null
}}
```

Kofax TotalAgility

Here are a sample Request URL call and response for how to call Kofax TotalAgility for extraction of a check:

Example URL call

RequestURL

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

Note

http://<servername>/TotalAgility/Services/SDK/JobService.svc/json/
CreateJobWithDocumentsAndProgress2 **has been deprecated.**

Request headers

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

Request body for TIFF

```
{  
  "jobWithDocsInitialization": {  
    "InputVariables": [  
      {  
        "Id": "ProcessImage",  
        "Value": false  
      }  
    ],  
    "Documents": [  
      {  
        "Base64Data": null,  
        "Data": null,  
        "DocumentGroup": null,  
        "DocumentName": null,  
        "DocumentTypeId": null,  
        "FieldsToReturn": null,  
        "FilePath": null,  
        "FolderId": null,  
        "FolderTypeId": null,  
        "MimeType": null,  
        "PageDataList": [  
          {  
            "Data": null,  
            "Base64Data": "<Image Data Will Be Here>",  
            "MimeType": "image/tiff",  
            "RuntimeFields": {}  
          },  
          {  
            "Data": null,  

```

```
    "Base64Data": "<Image Data Will Be Here>",
    "MimeType": "image/tiff",
    "RuntimeFields": {}
  }
],
"ReturnAllFields": true,
"ReturnFullTextOcr": false,
"RuntimeFields": null
}
],
"StoreFolderAndDocuments": false,
"StartDate": null
},
"processIdentity": {
  "Id": null,
  "Name": "KofaxCheckDepositSync",
  "Version": 0
},
"sessionId": "C640521793431F4486D4EF1586672385",
"variablesToReturn": {}
}
```

Request body for PDF

```
{
  "jobWithDocsInitialization": {
    "Documents": [
      {
        "Base64Data": "<Image Data Will Be Here>",
        "Data": null,
        "DocumentGroup": null,
        "DocumentName": null,
        "DocumentTypeId": null,
        "FieldsToReturn": null,
        "FilePath": null,
        "FolderId": null,
        "FolderTypeId": null,
        "MimeType": "application/pdf",
        "PageDataList": null,
        "ReturnAllFields": true,
        "ReturnFullTextOcr": false,
        "RuntimeFields": null
      }
    ],
    "InputVariables": [
      {
        "Id": "ProcessImage",
        "Value": false
      },
      {
        "Id": "ReturnRestrictiveEndorsement",
        "Value": true
      }
    ],
    "StartDate": null,
    "StoreFolderAndDocuments": false
  },
  "processIdentity": {
    "Id": null,
    "Name": "KofaxCheckDepositSync",
    "Version": 0
  },
}
```

```
"sessionId": "C640521793431F4486D4EF1586672385",
"variablesToReturn": {}
}
```

Response

```
{
  "d": {
    "__type": "SyncJobWithDocuments:http://www.kofax.com/agility/services/sdk",
    "JobIdentity": {
      "__type": "JobIdentity:http://www.kofax.com/agility/services/sdk",
      "Id": "FFA74E7362D14F5EACE58F6F66591DC2"
    },
    "DocumentId": "63d19eaa-1196-4181-8aa1-a62c011e367d",
    "FolderId": "bdc48792-e9ca-4ac2-87a7-a62c011e366f",
    "ReturnedDocumentFields": [
      {
        "__type": "DocumentFields2:http://www.kofax.com/agility/services/sdk",
        "DocumentId": "63d19eaa-1196-4181-8aa1-a62c011e367d",
        "ReturnedDocumentFields": [
          {
            "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
            "Id": "167BFC1D96854F6EBAC60DB176667A13",
            "TableRow": -1,
            "TableColumn": -1,
            "Value": "1701.00",
            "Name": "A2iA_CheckAmount",
            "Valid": true,
            "ErrorDescription": null,
            "ReviewForcedValid": false,
            "Verified": false,
            "Confidence": 0.882,
            "ReviewForcedValidDescription": null,
            "ExtractionConfident": false,
            "Left": 988,
            "Top": 206,
            "Width": 145,
            "Height": 38,
            "PageIndex": 0,
            "DocumentFieldAlternatives": [
              {
                "__type": "FieldAlternative2:http://www.kofax.com/agility/services/sdk",
                "PageIndex": 0,
                "Confidence": 0.882,
                "Text": "1701.00",
                "Height": 38,
                "Left": 988,
                "Top": 206,
                "Width": 145
              }
            ]
          }
        ],
        "TableCells": []
      }
    ],
    {
      "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
      "Id": "4ECE8099C5EC4250A34CCF5AD72BA551",
      "TableRow": -1,
      "TableColumn": -1,
      "Value": ".000067895.12345678,",
      "Name": "A2iA_CheckCodeline",
      "Valid": false,
      "ErrorDescription": "Transit field does not meet checksum requirement.",
      "ReviewForcedValid": false,
      "Verified": false,
      "Confidence": 0.979,
      "ReviewForcedValidDescription": null,
    }
  }
}
```

```
"ExtractionConfident": false,
"Left": 78,
"Top": 470,
"Width": 543,
"Height": 28,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "35E35D262A374CAFAE6E1580CE4390AE",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "08-05-2073",
  "Name": "A2iA_CheckDate",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0.608,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 696,
  "Top": 103,
  "Width": 239,
  "Height": 50,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "FC25446E0C804452AF315CCE78C13BE2",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "1001",
  "Name": "A2iA_CheckNumber",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 1,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 1061,
  "Top": 47,
  "Width": 65,
  "Height": 24,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "9B5F231D511D44F880916C2F43348245",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "IIA",
  "Name": "A2iA_CheckPayeeName",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
```

```
"Confidence": 0.034,
"ReviewForcedValidDescription": null,
"ExtractionConfident": false,
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"Top": 189,
"Width": 57,
"Height": 18,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "5C71E57C52EB4C78ACDADB3FF632F88",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "1701.00",
  "Name": "A2iA_CheckLAR",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0.68694,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 169,
  "Top": 232,
  "Width": 589,
  "Height": 53,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "9EE05F22A9D341618CC71F6CC9F5708F",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "1707.00",
  "Name": "A2iA_CheckCAR",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0.646232,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
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  "Height": 38,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "6A4E13E42ECF4B859A12C7992B06ECFD",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": null,
  "Name": "A2iA_CheckCodeline_AuxiliaryOnUs",
  "Valid": false,
  "ErrorDescription": "Transit field does not meet checksum requirement.",

```

```
"ReviewForcedValid": false,
"Verified": false,
"Confidence": 0.979,
"ReviewForcedValidDescription": null,
"ExtractionConfident": false,
"Left": 78,
"Top": 470,
"Width": 543,
"Height": 28,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "58CCF22A00BF4F59A51BA20CE44D5E53",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": null,
  "Name": "A2iA_CheckCodeline_EPC",
  "Valid": false,
  "ErrorDescription": "Transit field does not meet checksum requirement.",
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0.979,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 78,
  "Top": 470,
  "Width": 543,
  "Height": 28,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "7406B8B71BCF43B1AD565CEE74D87B04",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "000067895",
  "Name": "A2iA_CheckCodeline_Transit",
  "Valid": false,
  "ErrorDescription": "Transit field does not meet checksum requirement.",
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0.979,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 78,
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  "Width": 543,
  "Height": 28,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "B313A42EB54440CCB1932D4C59ACA14F",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "12345678",
  "Name": "A2iA_CheckCodeline_OnUs1",
```

```
"Valid": false,
"ErrorDescription": "Transit field does not meet checksum requirement.",
"ReviewForcedValid": false,
"Verified": false,
"Confidence": 0.979,
"ReviewForcedValidDescription": null,
"ExtractionConfident": false,
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"Width": 543,
"Height": 28,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "EFF22A3DF04C481D99E1263075D34445",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": null,
  "Name": "A2iA_CheckCodeline_OnUs2",
  "Valid": false,
  "ErrorDescription": "Transit field does not meet checksum requirement.",
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0.979,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
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  "Width": 543,
  "Height": 28,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "AF2E75EB6CB7487FA05E605D27326651",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": null,
  "Name": "A2iA_CheckCodeline_Amount",
  "Valid": false,
  "ErrorDescription": "Transit field does not meet checksum requirement.",
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0.979,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 78,
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  "Width": 543,
  "Height": 28,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "96BD66FD9DF144129FD3E5B9099EC093",
  "TableRow": -1,
  "TableColumn": -1,
```



```
"Value": "60",
"Name": "IQA_ImageWidth",
"Valid": true,
"ErrorDescription": null,
"ReviewForcedValid": false,
"Verified": false,
"Confidence": 0,
"ReviewForcedValidDescription": null,
"ExtractionConfident": false,
"Left": 0,
"Top": 0,
"Width": 0,
"Height": 0,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "ABBD0F6589B24B2FADFE731C1FF6E2D3",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "27",
  "Name": "IQA_ImageHeight",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
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  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "60F020EC6F4D420388FDFDDBFF889858",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_TopLeftCornerWidth",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
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  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "6C2AD56010D841C79C842F6E37DC314B",
```

```
"TableRow": -1,
"TableColumn": -1,
"Value": "0",
"Name": "IQA_TopLeftCornerHeight",
"Valid": true,
"ErrorDescription": null,
"ReviewForcedValid": false,
"Verified": false,
"Confidence": 0,
"ReviewForcedValidDescription": null,
"ExtractionConfident": false,
"Left": 0,
"Top": 0,
"Width": 0,
"Height": 0,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "0A069F5A58044F36976A712D2DE060E0",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_BottomLeftCornerWidth",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
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  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "CAA5D90DEF72477A8AD61B2C82D7FEBF",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_BottomLeftCornerHeight",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
  "Top": 0,
  "Width": 0,
  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
```

```
"_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
"Id": "E76B2AE31ED442CF816A146F6050D73C",
"TableRow": -1,
"TableColumn": -1,
"Value": "0",
"Name": "IQA_TopRightCornerWidth",
"Valid": true,
"ErrorDescription": null,
"ReviewForcedValid": false,
"Verified": false,
"Confidence": 0,
"ReviewForcedValidDescription": null,
"ExtractionConfident": false,
"Left": 0,
"Top": 0,
"Width": 0,
"Height": 0,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "935ED956687849FB9086A07CBF6F7CF0",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_TopRightCornerHeight",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
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  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "8BBF5238D84A4F18B3F2DBC4DE68E008",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_BottomRightCornerWidth",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
  "Top": 0,
  "Width": 0,
  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
}
```

```
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "85371375115947F19B2C72C2AB9F7E89",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_BottomRightCornerHeight",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
  "Top": 0,
  "Width": 0,
  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "BAF4016B191F462E8F8A9A5F4ABA92C9",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_TopEdgeTearWidth",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
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  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "0A1307C5AAF04FE0BC0A90737284F52F",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_TopEdgeTearHeight",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
  "Top": 0,
  "Width": 0,
  "Height": 0,
  "PageIndex": 0,
}
```

```
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "66FD23CF23954262A58AB01918097699",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_RightEdgeTearWidth",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
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  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "3BE9CEB7DE494EE59F4956C6CBCF4AC4",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_RightEdgeTearHeight",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
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  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "_type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "CDD25B6D62E14F0493EC672784BFB999",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_BottomEdgeTearWidth",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
  "Top": 0,
  "Width": 0,
```

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"Height": 0,
"PageIndex": 0,
"DocumentFieldAlternatives": [],
"TableCells": []
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "251075287BA54520B7ACD1D5349EE9EF",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_BottomEdgeTearHeight",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
  "Top": 0,
  "Width": 0,
  "Height": 0,
  "PageIndex": 0,
  "DocumentFieldAlternatives": [],
  "TableCells": []
},
{
  "__type": "RuntimeField3:http://www.kofax.com/agility/services/sdk",
  "Id": "FCE97BC8E8684104997A2214522FE822",
  "TableRow": -1,
  "TableColumn": -1,
  "Value": "0",
  "Name": "IQA_LeftEdgeTearWidth",
  "Valid": true,
  "ErrorDescription": null,
  "ReviewForcedValid": false,
  "Verified": false,
  "Confidence": 0,
  "ReviewForcedValidDescription": null,
  "ExtractionConfident": false,
  "Left": 0,
  "Top": 0,
  "Width": 0,
  "Height": 0,
  "PageIndex": 0,
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