

Kofax Transformation Modules

6.1.0

Release Notes



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Contents

About This Release	5
Version Information	5
New Features	5
A2iA Recognition Engine Upgrade	5
Classification Online Learning	5
Configuration Sets	5
Database and Dictionary Web Resources	6
Database Connection Settings Improvements	6
FineReader Recognition Engine Upgrade	6
New Keyboard Shortcuts in Thin Client Validation	6
RecoStar Recognition Engine Upgrade	7
Zone Wizard	7
Changes in Behavior	7
Conflict Resolution Management	8
FineReader Upgrade Changes	8
Installing the Thin Client Server on Windows Server 2012	8
Knowledge Base Learning Server Document Collection	8
Renamed Generic and Specific Online Learning	8
Text Anchor Improvements	9
Resolved Issues	11
Kofax Transformation Modules 6.1.0	11
Thin Client Validation Drop Down List Incorrect Value	11
Thin Client Validation Document Confirmation	11
Adding Training Documents Error	11
Internet Explorer 11 Issues with the Thin Client Server	11
Voting Zones and Anchors	11
Random Entries in Format Locator Evaluation Settings	11
Moving Many Zones is Very Slow	11
Zone Subfield Names Cannot Contain a Period	12
Manual Anchoring and Document Registration	12
Unnecessary PDF Document Rotation	12
Barcode Locator Fails to Find QR Bar Codes	12
Windows Server 2012 and the Thin Client Server	12
A2iA on a 64-Bit Operating System	12
Kofax Transformation Modules 6.0.2 Fix Packs	12
Kofax Transformation Modules 6.0.2 Fix Pack 5	12

- Kofax Transformation Modules 6.0.2 Fix Pack 4 13
- Kofax Transformation Modules 6.0.2 Fix Pack 3 14
- Kofax Transformation Modules 6.0.2 Fix Pack 2 15
- Kofax Transformation Modules 6.0.2 Fix Pack 1 15
- Thin Client Server 6.0.2 Fix Pack 1 18
- Known Issues 19
 - Root Element Error when Documents Copied via Drag & Drop19
 - Uninstalling Kofax Transformation Modules 6.1.019
 - Upgrading Kofax Transformation Modules 5.5 with A2iA 19
 - Upgrading Kofax Transformation Modules 19
 - Uninstall Cannot Remove A2iADR50 Folder20
 - Clear Thin Client Browser History 20

About This Release

This set of release notes contains important information not included in other Kofax Transformation Modules documentation. Please read these release notes carefully before you install, upgrade, or use this product.

Information about supported operating systems and other requirements is available on the Kofax Support website at www.kofax.com.

Version Information

The Kofax Transformation Modules 6.1.0 release has the following build number, which appears in the About Kofax window:

6.1.0.0.4224

New Features

The following new features are available in Kofax Transformation Modules 6.1.0.

A2iA Recognition Engine Upgrade

The A2iA CheckReader engine has been upgraded to version 6.0, the DocumentReader was upgraded to version 5.0, and the FieldReader was upgraded to version 5.0. This allows for better recognition of checks and better handwriting recognition.

Classification Online Learning

It is now possible to improve classification results over time by collecting training documents automatically. If a document is manually classified or reclassified during Document Review, Validation, or a Thin Client Validation, that document is collected to improve the classification results of later batches.

Dynamic classifiers can be used so that documents accumulated between training maintenance can be used to improve batches in production. The dynamic content classifiers are updated when enough documents are accumulated. The layout classifier is updated with each document. This means that the documents used to update the dynamic classifiers can be used in production even before they are imported into the project and added to the Classification Set, the project is retrained and then republished.

Configuration Sets

These sets contain settings that are used by a project that differ depending on the environment.

For example, there is a project with three configuration sets. The first configuration set is for developing a project using non-production resources. The second configuration set is for the testing the project in isolation before it is put into production. The third configuration set is for the production environment with live databases and resources. Each environment can have its own configuration set and switching between them requires minimal time and effort.

There is no limit to the number of configuration sets that can be added to a project. There is however, a built-in fallback mechanism, so it is impossible to end up with an empty or missing configuration setting. When a project is first created, default project settings are supplied. If a configuration set does not contain a value for a specific setting, the default project setting is used instead.

Database and Dictionary Web Resources

It is now possible to use a `http://` web resource for a database or a dictionary.

Database Connection Settings Improvements

Database connections can be defined independently from the actual database table that is used for a relational database. This allows the connection to be configured once and used in multiple locations. Any changes that are required for that connection, such as a change in password, can be updated once for all configurations using that connection.

FineReader Recognition Engine Upgrade

The Abbyy FineReader recognition engine has been upgraded to version 11.1. This upgrade provides recognition for several new languages and improved recognition as follows:

Arabic OCR Improvements

Improvements have been made to Arabic character recognition. Arabic text is now recognized with greater accuracy.

Improved 2D Bar Code Recognition

Various types of 2D bar codes are now recognized with greater accuracy.

Receipt Recognition Improvements

A new text type specifically designed for receipts is available for selection from the FineReader page and zone profile settings.

Vietnamese OCR

Documents with Vietnamese can now be processed.

New Keyboard Shortcuts in Thin Client Validation

In order to support batch editing using the keyboard in Thin Client Validation, the following new keyboard shortcuts are available.

Option	Keyboard Shortcut	Description
Create Folder	Shift+C	Creates a folder and moves the selected documents into that folder
Delete Document/Folder	Shift+X	Deletes the selected document or folder
Delete Page	Shift+Y	Deletes the selected page
Merge to Previous Document/ Folder	Q	Merges the selected document or folder to the previous document or folder
Split Folder	Shift+T	Splits the selected folder and moves the selected document and all subsequent documents into a new folder

The following keyboard shortcuts are also available when using the Thumbnail panel:

Option	Keyboard Shortcut	Description
Delete Page	Shift+Y	Deletes the selected page
Split Document	Shift+S	Splits the selected document and moves the selected page and all subsequent pages into a new document

RecoStar Recognition Engine Upgrade

The RecoStar recognition engine has been upgraded to version 7.2. This upgrade provides improvements in the speed and accuracy of recognition.

Zone Wizard

It is now possible to configure the Advanced Zone Locator using a Wizard. The Zone Wizard can be used to automatically detect and add zones to a document based on the layout of a form. This is an ideal way of configuring an Advanced Zone Locator if a document has a lot of data that needs to be captured using multiple zones.

A document is first analyzed to determine which areas of the document contain information that can be extracted using a zone. Review all found zones and remove any that are not needed. Once all unwanted zones have been removed, the zones are accepted and subfields are created for each zone. The newly created zones are available for editing after closing the Zone Wizard.

Changes in Behavior

The following changes have been made to the behavior of Kofax Transformation Modules 6.1.0

Conflict Resolution Management

Improvements have been made to conflict resolution to minimize the time it takes to resolve conflicts and to train a project. This is accomplished by quickly retraining the affected part of the project in the background as each conflict is resolved. Existing conflicts may be automatically resolved without presenting them to the user. This reduces the number of conflict management training cycles to a single cycle.

FineReader Upgrade Changes

The following changes in behavior are a result of the FineReader recognition upgrade.

FineReader CJK Text Direction

The option to select the direction of CJK text is no longer available. This is because FineReader 11.1 is able to automatically detect the direction of these types of text. If you have used this option in script (`CJKTextDirection`), it will not cause your scripts to fail but it no longer has any effect. You can remove it without it affecting your results.

OcrA and OcrB Language Support

There is now a language named OcrA and OcrB. This eliminates the need for the corresponding text types. On upgrading a project that used the old text types, information is displayed in the Project Warnings window to update to one of these languages instead of a text type.

Installing the Thin Client Server on Windows Server 2012

It is now possible to install the Thin Client Server on this operating system. However, in order to do so, HTTP activation needs to be selected in the ASP.NET 4.5 settings. For more information, see the *Thin Client Server Installation Guide*.

Knowledge Base Learning Server Document Collection

Improvements have been made to minimize the number of documents that are collected during production. This means that fewer documents are collected and the time it takes to import documents and train your project is reduced.

Renamed Generic and Specific Online Learning

Specific Online Learning has been renamed to "Extraction Online Learning". This is because Classification Online Learning has been added and this rename ensures that there is no confusion.

Generic Online Learning has been renamed to "Problem Reporting". This is because this type of learning is a purely manual process. Documents are manually marked as a problem and the project administrator must review them before training a project. Since there is no online component of this, it is no longer referred to as online learning.

Text Anchor Improvements

It is now possible to enter text manually into the Anchor text field. Matching of the text is performed as each character is typed. Drawing a lasso in the Anchor Search Zone immediately updates the current text in the Anchor text field, overwriting any existing text. No OCR is required because only the matching of the text anchor is executed. The lasso is temporary and no longer creates a zone. This speeds up lassoing the search text.

If the text is incorrect or not detected, type the correct content in the Anchor text field. Only a single occurrence of the anchor text is allowed.

Resolved Issues

The following are the resolved issues in Kofax Transformation Modules.

Kofax Transformation Modules 6.1.0

The following problems have been resolved in Kofax Transformation Modules 6.1.0.

Thin Client Validation Drop Down List Incorrect Value

It is no longer possible to type a partial value from a drop down list and then have an incorrect value applied when pressing Enter. (612243)

Thin Client Validation Document Confirmation

When a document is confirmed in Thin Client Validation, it now remains valid. (611515)

Adding Training Documents Error

It is now possible to add multiple documents to the Extraction Set via the Edit Documents window without error. (403553)

Internet Explorer 11 Issues with the Thin Client Server

Content in the Filter Batches window is no longer lost when filter criteria are applied to the list of batches. (373721)

It is no longer possible to navigate back and forth once a user logs out of one of the Thin Clients. (374031)

Voting Zones and Anchors

The Anchoring tab is now disabled when the settings of a voting zone are open. (350964)

Random Entries in Format Locator Evaluation Settings

The Format Locator has been fixed so that unwanted random entries are no longer added to the Evaluation Settings tab. (323473)

Moving Many Zones is Very Slow

Bulk update has been implemented so that multiple zones can be moved without causing performance issues. (321608)

Zone Subfield Names Cannot Contain a Period

It is no longer possible to have a zone subfield name that contains a period. (293444)

Manual Anchoring and Document Registration

The mapping of fields has been improved so documents are now correctly registered and zones are mapped as expected. (44223)

Unnecessary PDF Document Rotation

After an upgrade to FineReader 11.1, PDF documents are no longer rotated unexpectedly. (41121)

Barcode Locator Fails to Find QR Bar Codes

After an upgrade to FineReader 11.1, QR bar codes are now successfully located. (36935)

Windows Server 2012 and the Thin Client Server

It is now possible to use the Thin Client Server on Windows Server 2012. However, in order to do this, you must enable HTTP Activation.

For more information on installing the Thin Client Server, see the *Thin Client Server Installation Guide*. (36718)

A2iA on a 64-Bit Operating System

There are no longer issues with processing a batch with an A2iA Zone Locator on a 64-Bit operating system. (36565)

Kofax Transformation Modules 6.0.2 Fix Packs

The following Fix Packs have been released for Kofax Transformation Modules and the Thin Client Server since Service Pack 2 (6.0.2) was released.

Kofax Transformation Modules 6.0.2 Fix Pack 5

The following problems have been resolved in Kofax Transformation Modules 6.0.2 Fix Pack 5 (6.0.2.5).

RecoStar Full-Page Recognition

It is now possible to configure a RecoStar Page recognition profile to ignore all full-page recognition errors if errors are encountered. This enables batches to complete as if recognition was completed successfully, but no recognition results are actually captured. (610051)

Database Confidence Inaccuracies

The incorrect settings used to format the records returned by Kofax Search and Matching Server have been fixed.

Records returned by the Database Locator are no longer causing inaccuracy issues. (608560)

Database Records not Updated in Document Review

Classification changes made by custom menu items during Document Review are now saved to Kofax Capture. (608046)

Dictionary Load Failure

Several currency issues have been resolved. As a result, dictionaries now load successfully after they are updated. (606698)

Fuzzy Database Lookup Error

This error no longer occurs because a wrong memory access for the fuzzy database has been fixed. (606165)

Fields not Correctly Synchronized After Validation

Subfolders are now checked for modifications so that document fields are correctly synchronized back to Kofax Capture after Validation. (585477)

Arithmetic Error in Script for Folders

Folder fields are now initialized correctly when a folder is created in script. As a result, an overflow error is no longer generated. (582571)

Arrow Navigation in Validation

Arrow navigation is no longer erratic. The current field is now cleared so that the cursor does not retain its position from the previous batch. (372010)

Kofax Transformation Modules 6.0.2 Fix Pack 4

The following problems have been resolved in Kofax Transformation Modules 6.0.2 Fix Pack 4 (6.0.2.4).

Transformation Server Hangs with Kofax Search and Matching Server

When a project is closed, its connection to Kofax Search and Matching Server is terminated and Transformation Server no longer hangs. (584666)

Invoice Confidence and Training

Invoices were extracted with only 50% confidence despite being trained more than ten times. When only one keyword is used and there are multiple matches on the page, only the first match is considered when computing confidence.

Now, all matches are considered and accounted for when calculating the confidence. (564998)

Validation Script Error with Amount Group Locator

The document object is now available when validating a document during training in Project Builder. (557675)

Line Item Matching Locator Database Discrepancies

Query searches now provide the correct purchase order numbers, regardless of which type of database is being accessed. (556714)

Invoice Validation Method not using Rounding Correctly

Now, the “Maximum allowed rounding error” is taken into account when an Invoice Validation method is applied to a field. (42090)

Highlight of Matched Instructions Feature Lost

Matched instructions are now highlighted in the Document Viewer when in the Text Mode, as they were in previous versions of Kofax Transformation Modules.(372392)

Kofax Transformation Modules 6.0.2 Fix Pack 3

The following problems have been resolved in Kofax Transformation Modules 6.0.2 Fix Pack 3 (6.0.2.3).

Special Character Handling

Japanese and Chinese characters in document file names are now correctly handled when Test Validation is opened and closed.

Japanese and Chinese characters in document file names are now correctly handled if the documents are added to a training set. (571740)

All Unicode characters are now supported and used as part of the file name. (578933)

Extraction Failure

An error no longer occurs when the data cannot be found in the expected zone location defined in script during configuration. (553522)

Skip Batch Closing

A new `Batch_InteractiveClosing` event is available to interrupt the closing of a batch when a user attempts to close it in the Document Review, Validation, or Verification user modules.

This event is triggered by user-driven close or suspend actions, either via the menu or by closing the application window. (552662)

Document Set Corruption Error

An error no longer occurs when a Language Pack is installed (544250).

Line Item Matching Locator Unit Price Calculation

The number of decimal places for a unit price in the Line Item Matching Locator is determined by the formatter applied to that field. (542709)

Document Loses Kofax Capture Field Values

This problem resulted from a cancelled session.

The cancelled session state is no longer possible, so the Kofax Capture form type and field values are no longer lost as a result. (457409)

Advanced Zone Locator Anchor and Zone Deletion

When multiple zones are selected for deletion, each zone type is tracked and message boxes are provided so users can confirm the deletion.

This ensures that zones are not deleted by accident. (347836, 346874, 556063)

Kofax Transformation Modules 6.0.2 Fix Pack 2

The following problems have been resolved in Kofax Transformation Modules 6.0.2 Fix Pack 2 (6.0.2.2).

Amount Formatter Rounding Problems

All .5 values are now consistently rounded up to the nearest whole number rather than down. (541602)

Selection In Document Viewer Highlight Error

Selecting “Classify Selection” in text mode while in the Document Viewer should highlight the matched instructions of the winning class.

The “highlight of matched instructions” feature is now available in the Document Viewer and behaves as it has in earlier versions of Kofax Transformation Modules. (372392)

Table Interpolation Runs Validation Rules Too Many Times per Row

The Interpolate rows feature is now working as expected so that validation rules are run only once per row. (359793)

InPlace Editor Error on Enter

An error is no longer encountered when pressing Enter in the InPlace Editor when a table cell is selected.

Tables do not support the automatic extraction training mode, so when Enter is pressed in the InPlace Editor, it has no effect. (323913)

Kofax Transformation Modules 6.0.2 Fix Pack 1

The following problems have been resolved in Kofax Transformation Modules 6.0.2 Fix Pack 1 (6.0.2.1).

Timeout Duration for Failed Child Processes Cannot Be Changed

Server Scheduler had a hardcoded 24 hour timeout for failed child processes that was not configurable. A new Registry entry, `ExtractionProcessTimeout`, enables you to change the timeout period. (42898, 540796)

Rejected Documents Send Batches to Quality Control

Rejected documents in a child batch caused it and the parent batch to be sent to Quality Control.

To avoid this problem, modify your script as follows:

- Perform document routing using the `BatchCloseFinal` mode of the `BatchClose` event.
- Reject documents using the `BatchCloseChild` mode of the `BatchClose` event.

A script updated in this way will send the child batch with its rejected documents to Quality Control. The parent batch with the valid documents will continue to the next module in the queue. If you do not modify your script to use these modes, parent batches will continue to be sent to Quality Control alongside their child batches with rejected documents. (350803)

Validation Window and Panel Positions and Viewer Settings

Window positions and Document Viewer settings are now retained regardless of Security Boost settings. (353090)

Window positions and Document Viewer settings are retained even if a batch is suspended. (451650)

Bar Code Locator Error

An error is no longer produced by the FineReader recognition engine when the Barcode Locator is used to recognize a QR bar code. (353408)

A2iA Image Snippet Coordinates

The position of dynamic fields is now correctly calculated. This means that the Validation user is now able to view an invalid field and the appropriate corresponding image snippet to successfully validate a document.

Important When opening an old project for the first time after installing this new version that has one or more A2iA Zone Locators with dynamic fields defined, you must open and close the A2iA Configuration Tool for each A2iA Zone Locator. This ensures that the marker details for the dynamic fields are loaded correctly and that the dynamic fields are at the correct position from that point forward.

Once all A2iA Zone Locators are updated, the project is no longer backwards compatible. This means that the project cannot be opened or processed by an earlier version of Kofax Transformation Modules.

(354649)

Mixed Print OCR Error

All text lines are now available for each page when using Mixed Print recognition. A Fox Exception error is no longer generated in Server. (359830)

Batches Not Picked up by Server

The Server would get into a state where no `MailroomProcess` is active and as a result, no batch is picked up. Now, all unnecessary locks related to logging have been removed, and the Server can now pick up batches as expected. (373848)

Extra Thumbnail Created by Mistake

An extra thumbnail is no longer created in Document Review when a page is moved between documents. (374733)

Script Does not Generate Coordinates Correctly

The `Batch.CopyDocument` event did not generate `HorzDpi`, `VertDpi` and `ColorImage` in the `BatchPage` Table.

The horizontal and vertical DPI coordinates are now set for every page of an image. These values are also available in script. (427223)

Inconsistent Real-Time Transformation Interface Performance

The performance of the Real-Time Transformation Interface has been improved by changing the image format used. (389795)

A2iA Zone Locator with CheckReader Causes Memory Leak

Processing an image with the A2iA CheckReader has been improved to minimize memory consumption. (389770)

Field Confidence Values Incorrect

During classification and extraction, field confidences are now restricted to a value between 0.0 and 1.0. (378392)

Table Locator with Line Item Matching Locator Reference Causes Error

An error no longer occurs when a Table model with no description column is used by a Line Item Matching Locator, which is then used as input by a Table Locator. (377324)

Batch Splitting with Native PDF Fails with Server 2

It is now possible for Server 2 to access PDF files, even if Document Review modules remains open after batches that contain PDF files are fully processed and closed. (376691)

Separation Benchmarks Failing if Foldering Enabled

If foldering is enabled, it is now possible to perform a Separation Benchmark if your Benchmark Set contains only the Root Folder and no other subfolders. (375728)

Kofax Search and Matching Server Returns Negative Record IDs

A New `CscDatabase GetRecordData64()` function is now available to successfully retrieve data from databases larger than 2GB. In addition, a new property `RecID64` was also added to the `CscDatabaseResItems` function. This property is a parameter for the `GetRecordData64()` function.

The `CscDatabase` function is used for database lookups and in script. The old `GetRecordData()` interface and the `RecID` property are both still available for compatibility reasons, but the new 64-Bit versions should be used going forward. (490803)

Thin Client Server 6.0.2 Fix Pack 1

The following problems have been resolved in Thin Client Server 6.0.2 Fix Pack 1.

Changing Classification in Validation Hides Fields

The focus on the validation form has now been set to the first tab of the layout by default. This ensures that even when a document is reclassified, no fields are hidden. (586246)

Known Issues

The following sections describe known problems, and if available, useful workarounds for Kofax Transformation Modules 6.1.0.

Root Element Error when Documents Copied via Drag & Drop

When documents are copied via drag & drop, an error can occur when the project is trained or when the documents are sorted on disk.

Workaround: When presented with this error, press the Ignore or the Ignore All button. Doing so repairs the defective documents. (630605)

Uninstalling Kofax Transformation Modules 6.1.0

The removal of Kofax Transformation Modules 6.1.0 can fail because the Server Scheduler service does not always stop in a timely manner when requested by the installer.

Workaround: Stop all Kofax Capture and Kofax Transformation Modules services before attempting an uninstall. (619511)

Upgrading Kofax Transformation Modules 5.5 with A2iA

After upgrading to Kofax Transformation Modules 6.1.0 when the A2iA recognition engine is installed, some folders are not properly removed.

Workaround:

Remove the following folders:

- For x64 operating systems: <Program Files (x86)>\Common Files\Kofax
- For x86 operating systems: <Program Files>\Common Files\Kofax

Remove the following subfolders:

- A2iADR30 (when upgrading from versions 5.5 to 6.0.2),
- a2ia343 (when upgrading from versions 5.5 and 6.0),
- a2ia363 (when upgrading from version 6.0.2 only)

(619502)

Upgrading Kofax Transformation Modules

Before you install Kofax Transformation Modules 6.1.0, reboot your server **twice** before you begin the installation. This ensures that the installation is successful. (608620)

Uninstall Cannot Remove A2iADR50 Folder

If page recognition was performed for cursive writing using A2iA DR 5.0, the following folder is not removed when Kofax Transformation Modules is uninstalled:

- For x64 operating systems:
 <Program Files (x86)>\Common Files\Kofax\A2iA\DocumentReader5.0
- For x86 operating systems:
 <Program Files>\Common Files\Kofax\A2iA\DocumentReader5.0

Workaround: Delete this folder manually. (561711)

Clear Thin Client Browser History

After an upgrade, certain Thin Client features do not work as expected.

Workaround: Clear the browser history and then restart IIS.