

Kofax Transformation Modules

Release Notes

Version: 6.3.0

Date: 2019-04-02



© 2006-2019 Kofax, 15211 Laguna Canyon Road, Irvine, California 92618, U.S.A. All right reserved.
Portions © 2002-2006 Kofax Development GmbH. Portions © 1997-2006 Kofax U.K. Ltd. All Rights Reserved. Use is subject to license terms.

Third-party software is copyrighted and licensed from Kofax's suppliers.

This product is protected by U.S. Patent No. 5,159,667.

THIS SOFTWARE CONTAINS CONFIDENTIAL INFORMATION AND TRADE SECRETS OF KOFAX
USE, DISCLOSURE OR REPRODUCTION IS PROHIBITED WITHOUT THE PRIOR EXPRESS
WRITTEN PERMISSION OF KOFAX

Kofax, the Kofax logo, Kofax Transformation Modules, Ascent Xtrata Pro, INDICIUS, Xtrata, Ascent Capture, Kofax Capture, VirtualReScan, the "VRS VirtualReScan" logo, and VRS are trademarks or registered trademarks of Kofax or its affiliates in the U.S. and other countries. All other trademarks are the trademarks or registered trademarks of their respective owners.

U.S. Government Rights Commercial software. Government users are subject to the Kofax standard license agreement and applicable provisions of the FAR and its supplements.

You agree that you do not intend to and will not, directly or indirectly, export or transmit the Software or related documentation and technical data to any country to which such export or transmission is restricted by any applicable U.S. regulation or statute, without the prior written consent, if required, of the Bureau of Export Administration of the U.S. Department of Commerce, or such other governmental entity as may have jurisdiction over such export or transmission. You represent and warrant that you are not located in, under the control of, or a national or resident of any such country.

DOCUMENTATION IS PROVIDED "AS IS" AND ALL EXPRESS OR IMPLIED CONDITIONS, REPRESENTATIONS AND WARRANTIES, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT, ARE DISCLAIMED, EXCEPT TO THE EXTENT THAT SUCH DISCLAIMERS ARE HELD TO BE LEGALLY INVALID.

Table of Contents

Chapter 1: About this release	5
Version information.....	5
New features.....	5
Enhanced bar codes.....	5
Kofax Clarity recognition engine.....	6
Limited to Online Learning mode.....	6
Protected projects.....	6
Changes in behavior.....	7
Batch editing events in Validation.....	7
Regular expression changes.....	7
Chapter 2: Resolved issues	8
Issues resolved in tools and rich client user modules.....	8
1222383 - Locator names no longer case sensitive.....	8
1195080 - Validation crashes when creating document in Batch Edit mode.....	8
1179699 - Masking not functional in Edit Batch mode.....	8
1102311 - Japanese text search in scripted Database Lookup window now working.....	8
1099062 - AGL exception with VAT-based amount location when too many combinations....	8
875825 - Fields invalid after splitting a document.....	9
Issues resolved in the Thin Client Server.....	9
1176056 - Thin Client Validation is unable to load configuration sets using 6.2.1.....	9
1119516 - Excessive memory usage kills Web server.....	9
Kofax Transformation Modules fix packs.....	9
Kofax Transformation Modules 6.2.1 fix pack 6.....	9
Kofax Transformation Modules 6.2.1 fix pack 5.....	10
Kofax Transformation Modules 6.2.1 fix pack 4.....	11
Kofax Transformation Modules 6.2.1 fix pack 3.....	12
Kofax Transformation Modules 6.2.1 fix pack 2.....	12
Kofax Transformation Modules 6.2.1 fix pack 1.....	13
Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 6.....	15
Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 3.....	15
Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 2.....	16
Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 1.....	16
Chapter 3: Known issues	17
A2iA Document Reader Performance Degradation.....	17

KTM Statistics export connector not installed.....	17
Broken forwards compatibility.....	18
Root element error when documents copied via drag & drop.....	18
Uninstalling Kofax Transformation Modules 6.3.0.....	18
Clear Thin Client browser history.....	18

Chapter 1

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 6.3.0 release has the following build number, which appears in the About Kofax window:

6.3.0.0.0.815

New features

The following new features are available in Kofax Transformation Modules 6.3.0.

Enhanced bar codes

The Enhanced Bar Code recognition engine is configured in the Kofax Capture batch class, and bar codes are extracted during Kofax Capture Scan. These results are then available to use in Kofax Transformation Modules as input for a Bar Code Locator.

When a Bar Code Locator is configured, a user has the option to select FineReader recognition only, Enhanced Bar Code recognition only, or both. Selecting both recognition engines enables automated voting so that the best result is selected, regardless of the recognition engine.

If both bar code engines are used, it is possible that they extract the same bar code at the same location. As a result, there are additional options for voting when the bar code locations match.

The option to use both engines requires a script solution. The script needs to use some sort of logic to help decide which result to use. For example, use the result with the higher confidence. If the confidence of both results is the exact same, specify one engine over the other.

Kofax Clarity recognition engine

This recognition engine performs full-page recognition and is specialized to recognize text at any location on an image (Text mode). For example, photographs of people or places, street signs, ID cards, or business cards. Because these images can be distorted, have perspective issues, or contain glare from reflected light, Kofax Clarity can overcome these issues to provide successful OCR results.

You can also use this recognition engine to recognize classic paper documents and forms (Document mode).



These benefits are possible because Kofax Clarity uses the scalability of cloud computing to perform OCR over an internet connection. This cloud architecture has the additional benefit of moving OCR processing online and away from the Kofax Transformation Modules Servers. All transmitted data is encrypted over an HTTPS connection.

The cloud services used by Kofax Clarity have been reviewed by an independent Qualified Security Assessor and are determined to be PCI DSS 3.2 compliant. Therefore you can rely on the cloud service provider's compliance for the infrastructure and platform components it provides.

Limited to Online Learning mode

By default, Project Builder is run so that all administrative functionality is available to all users. However, an organization may have users who specialize in maintaining online learning, but have no need or interest in modifying the project configuration itself.

Project Builder is now available in two separate modes.

1. Project Builder .
Use this to create, configure, and maintain a project. Users of this mode are typically Project Designers.
2. Project Builder (Limited to Online Learning) .
Use this to maintain online learning. Users of this mode are interested in downloading new training documents, maintaining online learning data, resolving training conflicts, and performing benchmarks only. Users of this mode do not have access to any other aspects of project configuration.

Protected projects

Protecting a project enables users to ensure that all sensitive data in a project is encrypted and inaccessible to a customer, but the project is still fully functional. Users cannot access this information through script or by any other means.

When a project is protected, a password is provided. This password ensures that other users cannot access the project. This password means that the project can be decrypted at a later point, if necessary.

Users are unable to perform the following tasks on a protected project.

- Test locators, perform extraction, or process protected documents.
- Perform OCR on protected documents.
- Perform extraction benchmarks using protected documents.

- Perform conflict resolution between a protected document and an unprotected document. In this situation, the only solution is to delete the protected document as its image is not visible.
- Perform clustering on protected documents.
- Convert a Test Set into a Training Set, even if it contains a mix of protected and unprotected documents.

Changes in behavior

The following changes have been made to the behavior of Kofax Transformation Modules 6.3.0.

Batch editing events in Validation

All batch editing actions in Rich Client Validation now trigger validation immediately, if configured.

Regular expression changes

The syntax used for regular expressions has been updated. The behavior of the { and } characters has changed. These two characters are treated as ordinary literals when used in a context that does not include a repeat, and no error is returned when these characters are used.

For example, the following expressions treat the curly brackets as literals.

```
ab{1"
```

```
ab1}
```

```
a{b}c
```

Previously, an expression of `\d{5}` was invalid. Now, this expression is valid and matches a digit followed by {5}. For example, `3{5}`.

Expressions that deal with repeats are still valid when curly brackets are used. For example, `\d{5}` matches any 5 digits.

Chapter 2

Resolved issues

The following are the resolved issues in Kofax Transformation Modules 6.3.0, including previous Fix Packs.

Issues resolved in tools and rich client user modules

The following issues were resolved in the tools or the rich client user modules. These issues are not included in any of the following fix packs.

1222383 - Locator names no longer case sensitive

Information is now available in the Kofax Transformation Modules Installation Guide that informs you that class names are no longer case sensitive, and that you must change any class names that might have the same name but with a different case before upgrading Kofax Transformation Modules.

1195080 - Validation crashes when creating document in Batch Edit mode

It is now possible to perform the Create Document operation when editing a batch without crashing the Validation module.

(1189183)

1179699 - Masking not functional in Edit Batch mode

Masking now works as expected in the Edit Batch mode.

1102311 - Japanese text search in scripted Database Lookup window now working

Improvements to how unicode characters are handled has been improved. As a result, these text searches now work as expected.

1099062 - AGL exception with VAT-based amount location when too many combinations

An error is no longer encountered due to an improvement in the amount based algorithm.

(1079001)

875825 - Fields invalid after splitting a document

Validated fields are no longer invalid after a document is split.

Issues resolved in the Thin Client Server

The following issues were resolved in the Thin Client Server. These issues are not included in any of the following fix packs.

1176056 - Thin Client Validation is unable to load configuration sets using 6.2.1

Projects are now successfully processed with the correct Configuration Set. As a result, Thin Client Validation now loads the expected Configuration Set.

(1172609)

1119516 - Excessive memory usage kills Web server

The Web server no longer crashes because of excessive memory usage. This is because PDF thumbnail generation is prevented, which causes excessive memory usage.

(979786, 1119515)

Kofax Transformation Modules fix packs

The following fix packs have been released for Kofax Transformation Modules and the Thin Client Server since 6.2.1 was released

Kofax Transformation Modules 6.2.1 fix pack 6

The following problems have been resolved in Kofax Transformation Modules 6.2.1 fix pack 6 (6.2.1.6).

1229957 - Table locator throws Fox exception

The amount-based table extraction algorithm has been improved so that Fox Exception errors are no longer thrown by table locators.

(1205615)

1224638 - pXDoc.reclassify loses field values in Document_AfterProcess event

Field values are now preserved when a document is reclassified during the Document_AfterProcess event.

1216662 - Service Configuration user override

An entry can be added to the ACConfig.xml file that ensures that services do not share logon credentials.

This forces a service to logon using specified username and password credentials from the service configuration rather than using the user configured as the service account.

```
<ACConfig>
  <Transformation>
    ...
    <Services ShareCredentials="0" />
  </Transformation>
</ACConfig>
```

Kofax Transformation Modules 6.2.1 fix pack 5

The following problems have been resolved in Kofax Transformation Modules 6.2.1 fix pack 5 (6.2.1.5).

1205383 - Width of document column too wide

The first time that a user opens the Batch Open window after applying this fix pack, the columns in the Open Batch window are resized to their default widths.

This means that any manual column width changes made previously, are lost.

If changes to the column widths are made from this point forward, those changes are retained and are visible the next time the Open Batch window is displayed.

(1212737)

1200827 - Capture working image folder recreated after batch deleted

After a batch is deleted, the corresponding Capture working image folder is no longer recreated.

1195886 - Batch Open window shows page and document counts

It is now possible to hide both the page count and document counts from the Open Batch Window on all Rich client user modules.

This includes Document Review, Correction, Validation, and Verification only.

The ACConfig.xml configuration file now contains the following entry.

```
<Transformation>
  <Modules>
```

```
<Module ModuleId="*">  
  <OpenBatchWindow HideDocAndPageCount="1"/>  
</Module>  
</Modules>  
</Transformation>
```

The value of 'HideDocAndPageCount' determines if the columns are displayed to the user or not.

A value of 1 hides the columns. A value of 0 displays the columns.

These columns are hidden by default.

Kofax Transformation Modules 6.2.1 fix pack 4

The following problems have been resolved in Kofax Transformation Modules 6.2.1 fix pack 4 (6.2.1.4).

1193781 - Open batch list dialog does not crash after processing the last batch in the list when batch filter is added

It is now possible for a user to open the Open Batch window after processing the last batch in a module.

1192598 - Validation crashes with error: "The process was terminated due to an unhandled exception"

The Validation module no longer crashes when pressing the 'Enter' key multiple times to confirm the document and close the batch.

1188939 - XValues are missing if a batch is processed in Project Builder

The XValues of a document processed in Project Builder are no longer lost. These XValues are now preserved for later processing.

1189183 - Validation crashes during batch edit when creating document

It is now possible to perform the 'Create Document' operation when editing a batch without crashing the Validation module.

1188888 - After validation rules are performed for verified fields, a crash occurs

Reclassification via script no longer causes Validation to crash.

1187879 - Provide a setting that enforces A2iA CheckReader to only process the first page of a document

A2iA CheckReader can now be forced to only process the first page of a document.

Kofax Transformation Modules 6.2.1 fix pack 3

The following problems have been resolved in Kofax Transformation Modules 6.2.1 fix pack 3 (6.2.1.3).

1172945 - Database locator gives error 'Invalid arguments' for specific documents

The Database Locator algorithms have been updated to prevent negative word coordinates.

This means that errors caused by negative word coordinates are no longer encountered.

1172716 - Reorder or rearrange columns in the batch list in Validation

For all user modules, it is now possible to rearrange the batch list view by sorting the columns.

(1147535)

1170051 - Reclassify does not work in Validation outside of DocumentLoaded event when running in asynchronous mode

Reclassify now successfully works via script in Validation, even after splitting or merging of documents.

1166916 - Fields are not validated anymore if the fields were filled from the database lookup window and a field is confirmed

When a field is populated by a database lookup, it is now validated as expected.

Kofax Transformation Modules 6.2.1 fix pack 2

The following problems have been resolved in Kofax Transformation Modules 6.2.1 fix pack 2 (6.2.1.2).

1161168 - Fillable Form PDF's Not Supported

It is now possible to extract and render all field data for a fillable PDF document.

1158295 - Column names in db lookup do not support localization

New functionality is available for Fuzzy Database, Relational Database, and Associative Search Database lookups.

When designing your Validation form, there is a new Column Headers window where you can add column names and localizations for the database search window columns.

(1158009)

1156089 - QR codes not recognized on several samples

QR code recognition on bad quality scans has improved due to a patch provided by ABBYY.

(1142971)

1148639 - Reorder or rearrange columns in the batch list in Validation

For all user modules, it is now possible to rearrange the batch list view by sorting the columns.

(1148636)

1147543 - Document Review - hot key Ctrl + S no longer prompts user if they want to suspend batch

Users are now prompted if they want to suspend a batch when either the Ctrl+S keyboard shortcut or the menu option are used.

(1147535)

1140339 - User profile for Kofax Capture Administration deleted

The Kofax Capture Administration account data is no longer overwritten when installing a Fix Pack, starting with 6.2.1.4 going forward.

However if 6.2.1.4 is uninstalled the Kofax Capture Administration account may be cleared.

(775882)

1133343 - MailroomProcess crashes if it cannot communicate to the Server Scheduler while processing a batch.

The MailroomProcess no longer crashes if it cannot communicate with the Server Scheduler.

(1133339)

Kofax Transformation Modules 6.2.1 fix pack 1

The following problems have been resolved in Kofax Transformation Modules 6.2.1 fix pack 1 (6.2.1.1).

1149460 - Password not handled correctly in ServiceConfiguration, server processing fails

The password used to log on to Kofax Capture when user profiles are enabled that is configured in the ServiceConfiguration tool is saved successfully.

Server processing no longer fails.

(1149459)

1148676 - Test Validation does not display page images in Batch Editing mode

Page images are now displayed in Test Validation when using Batch Editing mode.

1148657 - Validation of table sum is not executed when deleting rows

Table sum validation is now successfully executed when clearing rows via script.

(1118799)

1139980 - Scripted database lookup builds invalid SQL for Access when using ODBC

The wide-char syntax is applied by default whenever a database lookup is performed.

This causes problems when other types of database servers are used. Because of this, the automatic server type analysis can be overwritten by using a new property in script called "IsSQLServer." If this property is set to True, the wide-char syntax is applied for all strings. When false, the wide-char syntax is not applied.

This is related to bugs 1102180 and 1102312.

1134807 - Enhancement Request - Batch.ChangeClass method to include a parameter to set confidence level

A new optional parameter for the `ChangeClass` method adds or updates the `ClassificationResult (CscResult)` object in the document.

The `ClassificationResult` contains the final result of the given class name and the given confidence.

(1134806)

1130411 - InitialQueryVals are not working for scripted database ODBC lookups if SearchImmediately is false

Initial query values are now displayed in the scripted Database Lookup window, even when the "SearchImmediately" property is set to false.

(1134748)

1121090 - "System.NullReferenceException: Object reference not set to an instance of an object" in Validation when clicking on a table row

It is now possible to click on a table row in Validation without encountering an error.

1120691 - A2iA custom address values cause locator error

Custom address values no longer cause errors with the A2iA Zone Locator.

Note If you are using a user-defined dictionary for the FieldReader and your project is moved from one server to another, such as a test server to a production server, the location of the A2iA user-defined dictionary must be the same on both servers. If the dictionary is not in the same location on the new server as it was on the old server, errors may occur. If your dictionary is on a shared drive, this works without moving the dictionary.

(1112247)

1120121 - Reclassify via script does not retain classification result in Project Builder

Classification results are now retained in Project Builder when folders are enabled and Reclassify is executed in script when the Process Batch option is executed after a context menu selection.

(644910)

Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 6

The following problem has been resolved in Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 6 (6.2.1.6).

1227723 - Thin Client Server is unable to detect number of validation steps

Removed check for validation steps before the login to avoid network related issues. Instead, the execution of the login with invalid validation step fails.

Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 3

The following problems have been resolved in Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 3 (6.2.1.3).

1172609 - Thin Client Validation is unable to load configuration sets using 6.2.1

Projects are now successfully processed with the correct Configuration Set.

As a result, Thin Client Validation now loads the expected Configuration Set.

1171879 - Thin Client Server security: Persistent Cross-Site Scripting vulnerability - Table cell

The scripting vulnerability in a table cell is no longer present.

1170051 - Reclassify does not work in Thin Client Validation outside of DocumentLoaded event when running in asynchronous mode

Reclassify now successfully works via script in Thin Client Validation, even after splitting or merging of documents.

1166450 - Thin Client Server security - AuthenticationService.svc/LoginToStep does not change sessionID.

The sessionID is now cleared when a session times out or when a user logs out.

Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 2

The following problems have been resolved in Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 2 (6.2.1.2).

1147442 - Number format incorrect in database lookup window depending on browser language preference

The number format that results from a database lookup is now displayed on forms in the correct format for all supported browser languages.

For example, 12.50 for en-US, and 15,33 for de-DE.

However, the number format displayed in the Database Lookup window always contains a period ('.') no matter what browser language is selected.

1140961 - Thin Client Server field type table vs reclassify

If the same table exists in both Class A and Class B, the table field data is now retained when you reclassify from Class A to Class B, or vice versa.

Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 1

The following problems have been resolved in Kofax Transformation Modules Thin Client Server 6.2.1 fix pack 1 (6.2.1.1).

1149797 - Table.Rows.Clear is not reflected in Thin Client Validation GUI

This script action is now refreshed and successfully reflected in the Thin Client Validation user interface.

1148657 - Validation of table sum is not executed when deleting rows

Table sum validation is now successfully executed when clearing rows via script.

(1118799)

Chapter 3

Known issues

The following sections describe known problems, and if available, useful workarounds for Kofax Transformation Modules 6.3.0.

A2iA Document Reader Performance Degradation

During OCR processing, performance degradation occurs when using the A2iA Document Reader recognition engine. (1252327)

KTM Statistics export connector not installed

If you selected the **Statistics Release** module when you installed Kofax Transformation Modules, the KTM Statistics export connector is not successfully installed. Because of this it is not possible to apply this export connector to a batch class and it is impossible to import and publish a batch class with statistics release.

Workaround: Follow these steps to register the KTM Statistics export connector manually.

1. Open Kofax Capture Administration.
2. From the **Tools** tab, in the **System** group, click **Export Connectors**.
The **Export Connector Manager** window is displayed.
3. Click **Add**.
A Windows Explorer window opens.
4. Select **KTMStatisticRelease.inf** and then click **Open**.
The Add Export Connectors window is displayed.
5. In the Add Export Connectors window, select **KTM Statistics** and then click **Install**.
6. When prompted, click **OK** to confirm that the registration of the KTM Statistics module is complete.
7. In the Add Export Connectors window, click **Close**.
8. In the Export Connector Manger window, click **Close**.
9. Close Kofax Capture.

You can now import and publish batch classes with the statistics export connector.

Broken forwards compatibility

If you open and save a project in Kofax Transformation Modules 6.3.0, that project can no longer be opened in any previous version of Kofax Transformation Modules.

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 6.3.0

The removal of Kofax Transformation Modules 6.3.0 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)

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.