



# Release Notes

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*Ephesoft Enterprise Version 4.0.6.1*

*September' 2016*

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## **1. Introduction**

The Enterprise 4.0.6.1 Release Notes describes the improvements and new features introduced in the package, as well as workarounds for possible issues. Use these release notes for reference as you become more familiar with the product, and for future reference.

## **2. Document Overview**

To help you understand what's new and what is fixed relative to the current release, Ephesoft Enterprise 4.0.6.1 Release Notes have been structured so that you read only the sections relevant to you.

The improvements have been categorized based on various parameters so that the functionality of the current release is compared describing the version you are upgrading from.

### 3. Release Charter

#	Release Type	Category	Description
1	New Features	Extraction	<ul style="list-style-type: none"><li>• Web Services</li></ul>
2	Improvements	Capture	<ul style="list-style-type: none"><li>• Apply KV</li><li>• Field Fuzzy</li><li>• Fuzzy Search</li></ul>
		Extraction	<ul style="list-style-type: none"><li>• Support for more than 4 pages</li></ul>
		Review/Validate	<ul style="list-style-type: none"><li>• LIM Algorithm Performance Improvement</li></ul>
3	Bug Fixes		

## 4. Appendix A - New Features

### Extraction

- **Fuzzy DB – Changes in Existing Services and Adding New Services**

Four new web services have been introduced one existing web service has been changed as a part of Fuzzy DB Revamp.

1. **ExtractFieldsForFuzzyDB: [New]**

This web service extracts index fields as per the batch class configuration for Fuzzy DB. This takes into account both document level and field Fuzzy configuration.

Input Parameters:

- Batch Class Identifier
- Document Type Name
- List of HOCR Page(s)

2. **SearchTextForDocumentFuzzyConfiguration: [New]**

This web service searches the input text passed as a parameter for Document Fuzzy.

Input Parameters:

- Batch Class Identifier
- Document Type Name
- Search Text

3. **SearchTextForFieldFuzzyConfiguration: [New]**

This web service searches the input text passed as a parameter for Field Fuzzy.

Input Parameters:

- Batch Class Identifier
- Document Type Name
- Index Field Name
- Search Text

4. **LearnDatabaseForFuzzyDB: [New]**

This web service is used for learning database for a batch Class/document/Group depending on input parameter passed as an input.

Input Parameters:

- Batch Class Identifier
- Document Type Name (Optional)
- Group Name (Optional)

5. **extractFuzzyDB: [Existing]**

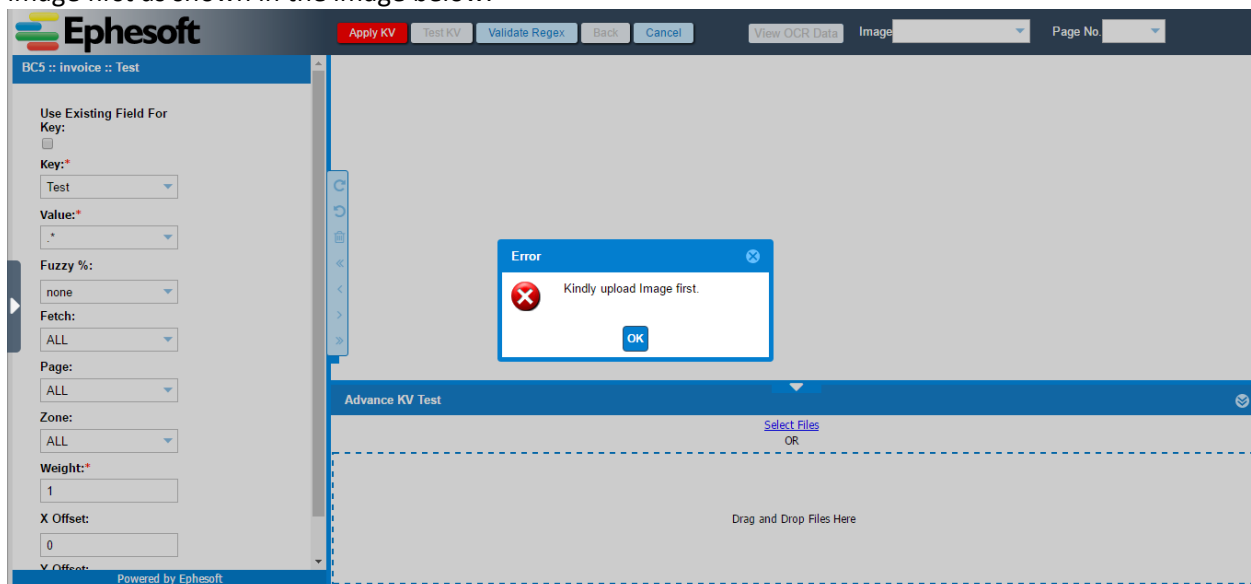
This web service updates new configurations and it performs extraction of index fields configured at the document level. Entire HOCR content search is performed.

## 5. Appendix B - Improvements

### Capture

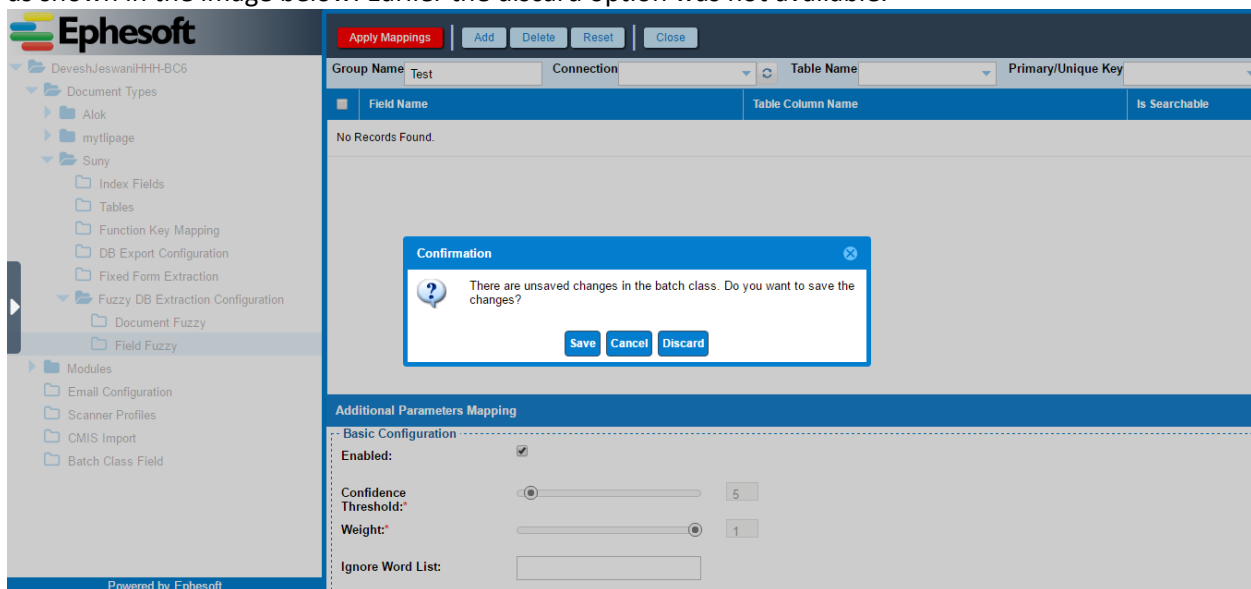
- Batch Class Management – Apply KV**

On clicking Apply KV, without uploading an image, user will be prompted with an error message to upload an image first as shown in the image below.



- Batch Class Management – Field Fuzzy**

On Field Fuzzy panel, after configuring field fuzzy, if user clicks Close, the user is prompted with Discard option as shown in the image below. Earlier the discard option was not available.



- Batch Class Management – Fuzzy Search**

User is now allowed to select only one Value for Grid.

### Extraction

- Web Services**

Ephesoft Enterprise now supports more than 4 pages in web services.



**Review/Validate**

- **LIM Algorithm Performance Improvement**

The existing line item matching algorithm was high in complexity and even the smallest change resulted in changing the overall algorithm. The LIM algorithm has now been optimized to reduce the complexity and to make it more customizable. A change has also made in Default.properties file for Unit Price algorithm.

## 6. Appendix C - Bug Fixes

### Internal

JIRA ID	Bug Description
EEN-2793	While upgrading from Ephesoft v4.0.2.0 to v 4.0.5.0, an error pop up was being displayed regarding LibreOffice application. Issue has been fixed in Ephesoft v4.0.6.1. New installer is able to replace existing LibreOffice with new binaries.
EEN-3595	An error message is displayed when creating and saving a new table mapping from DB Export Configuration.
EEN-3657	User is unable to do mappings with View and receives error messages.
EEN-3702	In Document Fuzzy/Field Fuzzy, whenever Table Column Name drop-down present in the grid is opened, the already selected value disappears.
EEN-3730	User gets intermittent UI related issues when navigating to SharePoint Configuration screen after importing a batch class.
EEN-3759	While using fuzzy search, user gets an error popup in case no data is found for the search pattern, but sometimes it shows result popup with no results. This inconsistency has been noticed with both document and field fuzzy.
EEN-3817	User is able to create Field Fuzzy Group when only one Index field is mapped and the "Is Searchable" checkbox is not selected.
EEN-3818	In Linux environment, user was unable to use the 'Download To' functionality on Batch Instance Management. It was observed that the issue was related to usage of wrong slash in the path (for Linux, '/' should be used). Furthermore, a tooltip will be added on the 'Download To' textbox for user guidance.
EEN-3826	User is unable to map numeric data type in Oracle Database with any type of DLF (Integer, Double, Float or String). It was observed that numeric Datatype in Oracle can only be mapped with BigDecimal datatype of DLF.
EEN-3828	It has been noticed that a blank folder for Field Fuzzy is being created while copying a document type when Field Fuzzy is not configured.
EEN-3829	Learn Indexes from previous version were not being removed while importing a batch class. Issue was verified on 3.x and 4.x batch classes. In addition, an extra folder existed inside "E:\Ephesoft\SharedFolders\BCC\fuzzydb-index\EmployeeForm\<DataBase Name>\<Document Type>\Index".
EEN-3832	With Internet Explorer, it was noticed that Line Item Matching screen was not being displayed properly. Issue was verified using Internet Explorer 11 with screen resolution of 1600*900 and was not reproducible.
EEN-3835	It was noticed that the More button on Review Validate screen was going off screen when Turkish language was selected in Mozilla Firefox. Upon verification at minimum browser resolution of 1366*768, the issue was not reproducible.
EEN-3844	Following issues were noticed with Fuzzy Search Results with various locales: Group Name label was not as per locale change. Text was overlapping Radio button when viewing in a different locale. Fuzzy Search Results label was as per the selected locale for Spanish, Turkish, and French.

JIRA ID	Bug Description
EEN-3846	Following browser locale issues were noticed: On Batch Class Management screen, Add button was not in German. CMIS Import and Scanner profiles were not translated to German. Custom Column Name was not translated to German. Characters were not properly displayed on KV screen when using Dutch and on Batch Class Management Screen when using Dutch and German.
EEN-3847	It was noticed that Fuzzy DB was not working when upgrading from Ephesoft v3.x to v4.0.6.0. It was observed that in Ephesoft v3.x, connections are maintained at plugin level; however, Ephesoft v4.x onwards, connections are maintained at Global level. To fix this, a migration script has been created. This script fetches plugin properties from 3.x, creates Global connection, and is assigned to all Document types of Batch Class.
EEN-3943	User was getting an error in javaserver logs while processing a batch when Fuzzy DB Plugin was ON and there was no fuzzy configuration in Batch Class.
EEN-3976	On the Review/Validate screen, navigation button should be disabled when user pop-outs the screen to view the image using the pop out functionality.
EEN-3983	It was noticed that last image thumbnail of the left panel was not updating properly after randomly performing certain operations such as inserting/reordering pages. This was an intermittent Web scanner related issue.
EEN-3984	It was noticed that while performing rescan from Validation screen with no paper in the scanner tray, the page is not refreshed.

## Client Bugs

JIRA ID	Axosoft ID	Bug Description
EEN-4198	#EPHE-12981	It was noticed that there were some ERROR logs related to Fuzzy DB appearing in the logs. Ideally these logs should have been at INFO level and not ERROR level. But somehow they got incorrectly marked as ERROR level in code.
EEN-3428	#EPHE-12413	In v4.0.5.0, issue was reported where direct scans from scanner to the UNC folder were resulting in corrupted images. Code is optimized to fix this issue.
EEN-3788	#EPHE-12594	Ephesoft LDAP error 32 with Windows 2008 r2 and Ephesoft Version 4.0.5.1. The issue was that earlier cn was used as default to search for Users ( <u>Organisational</u> Unit) in LDAP/AD which was used for full name to appear on the UI. As a solution, a configurable attribute has been added to perform search of Users ( <u>Organisational</u> Unit) in LDAP/AD. The default value is cn which user can configure accordingly.
EEN-4199	#EPHE-13087	With Ephesoft Enterprise 4.0.5.x, the <b>Extract Data from Column</b> feature inside Table Extraction Setup was not completely working with multiline items in columns.
EEN-2957	#EPHE-11542	There was an issue of missing icon images not loading in <b>Internet Explorer over HTTPS (worked well and fonts loaded directly from Ephesoft servers in case other browsers were used over HTTPS or HTTP was used)</b> . Initially there were two workarounds suggested for this issue: <ul style="list-style-type: none"> <li>a. Install font-awesome font directly on the client system.</li> <li>b. By linking external link to load the css file.</li> </ul>

JIRA ID	Axosoft ID	Bug Description
		We validated both workarounds as the fix over Ephesoft v 4.0.5.0 Windows/Linux but the second workaround would not work on the <b>air gapped client machines</b> as it was referring to an external link. A permanent resolution was provided.
EEN-3808	#EPHE-12658	<p>There was an issue of missing icon images not loading in <b>Internet Explorer over HTTPS (worked well and fonts loaded directly from Ephesoft servers in case other browsers were used over HTTPS or HTTP was used)</b>. Initially there were two workarounds suggested for this issue:</p> <ol style="list-style-type: none"> <li>Install font-awesome font directly on the client system.</li> <li>By linking external link to load the css file.</li> </ol> <p>We validated both workarounds as the fix over Ephesoft v 4.0.5.0 Windows/Linux but the second workaround would not work on the <b>air gapped client machines</b> as it was referring to an external link. A permanent resolution was provided.</p>
EEN-3587	#EPHE-12417	<p>Customer wanted to know if silent installation was supported for Ephesoft v4.0.5.1 patch installer.</p> <p>Ephesoft 4.0.6.1 and onwards, silent installer will be provided for patch releases.</p>
EEN-4185	#EPHE-13045	<p>An issue related to upgrade in cluster environment was noticed where reporting etl scripts were running multiple times and resulting into some unnecessary logs. Root cause of the issue was that in the installer following cases were being handled for reporting version update</p> <ol style="list-style-type: none"> <li>Fresh installation: The value will be 0.</li> <li>Upgrade: The value will be updated with previous version. But in multi-server, it will update the value with previous version with each upgrade on multiple servers as the SharedFolder is common in this case.</li> <li>Patch upgrade: Not implemented for previous version update. In this case it will not update the reporting version. It will have the same version what major upgrade had updated.</li> </ol> <p>As a solution, installer was optimized to implement the check for the previous version value in the existing file. If the value remains same with prefix \$, then file will not be replaced.</p>
EEN-3506	#EPHE-12446	<p>It was observed that there were some unhandled exceptions in Savelmage.exe which could result in improper impact on Ephesoft in case of an unhandled exception in Savelmage.exe.</p> <p>Concrete exception handling is done in Savelmage.exe to resolve the issue.</p>
EEN-3806	#EPHE-12662	<p>In KV_Page_Process plugin, customer was not able to configure rules with duplicate keys and values. This was due the validation which doesn't allow duplicate key and value for rules.</p> <p>As a solution, the validation on duplicate key and value has been removed from KV_Page_Process plugin.</p>
EEN-3735	#EPHE-12618	<p>The issue reported was that when in Validation, if user types a value in the index field, the field value change script works and populates the field with value set in the script. But if user goes to the field and try to change it by selecting a value on the image, the script does not execute and the value goes back to the default value.</p>

JIRA ID	Axosoft ID	Bug Description
		user was expecting the script to be executed in both scenarios, either by typing a value in the field or selecting a value from the image. As a solution, code fix was done to fire field value change script when user populates DLF by drawing overlay on image.
EEN-4230	#EPHE-13129	Customer faced an issue where Tool Tip for Multiline field type was not being displayed. Changing the field type to a standard Text field would display the Tool Tip as expected. Code was optimized to fix this issue.
EEN-4241	#EPHE-13063	With Ephesoft v4.0.5.0, when customer was doing a validation complete in Table View, popup window was partially hidden. Code was optimized to fix this issue.
EEN-4188	#EPHE-12654	There was an issue with the creation of serialized file when customer was using the Import Batch Class web service. It was noticed that the service was importing the batch class but was sometimes creating partial SER file. This resulted in batches not being processed when run against the newly imported batch class. However, after logging in to UI and deploying workflow, the SER file was completely generated and the transactions were processed successfully. Code was optimized to fix this issue.
EEN-4233	#EPHE-13112	There was an issue where RecoStar was incorrectly rotating some Images of a particular document type. On further investigation it was noticed that this was a known issue within RecoStar 7.2. This issue has been resolved by upgrading to RecoStar 7.5 SP1 in Ephesoft v4.0.6.1.
EEN-4249	#EPHE-13202	There was an issue with Ephesoft Linux installer where ojdbc14-10.2.0.1.0.jar was placed instead of ojdbc6-11.2.0.4.0.jar. This issue was not noticed with windows installer. Issue has been fixed in Ephesoft v4.0.6.1 Linux installer.
EEN-4301	#EPHE-13239	In v4.0.5.2, a compression switch was added in CREATEMULTIPAGE_FILES plugin which governed the compression of final output PDF file created using IText. This was done using a switch 'Compression switch' {values ON, OFF} in the CREATEMULTIPAGE_FILES plugin. Now, CREATEMULTIPAGE_FILES plugin also supports compression of output PDF file created using RecoStar.
EEN-4356	#EPHE-13290	There was an issue while upgrading from v4.0.5.1 to v4.0.5.4 where KV classification was not working correctly with the customer batches because value for some of the configured KV rules was not getting extracted. On further investigation it was noticed that a fix for OCR word ordering issue in Ephesoft v4.0.5.4 had led to this issue. To resolve the Classification issues, the fix created for OCR word ordering issue was reverted.
EEN-4405	#EPHE-13426	An issue related to table extraction was noticed where upon running Test Table Extraction after setting the co-ordinates, Column Coordinates got shifted to the right by 600px only in the first column set. All other columns were correct in the test table extraction.
EEN-4463		An issue related to translation in German locale was noticed where text objects such as "of", "pages", and "description" were not being properly translated.
EEN-4483	#EPHE-13467	Currently in Ephesoft, if user configures Batch Class Field as a drop down list and validation pattern is configured on the drop down, then the validation pattern would not get applied when user selects the value from drop down. As per new requirement, the validation pattern would also be applied to drop down list.

JIRA ID	Axosoft ID	Bug Description
<b>EEN-4484</b>	#EPHE-13454	An issue related to Batch Class Fields was reported where empty string Regular Expression was not working in Batch Class field dialog. Upon further investigation it was noticed that issue was occurring because the Regex validation rule was not being enforced for an empty string Regex. Code was optimized to fix this issue.
<b>EEN-4514</b>	#EPHE-13465	An issue related to Batch Class Fields Dialog Box was reported where the customer wanted to increase the size of the dialog box to show all fields. The customer wanted the operator to be able to see all Batch Class fields in one view by stretching out the size of the Batch Class field dialog box without having to scroll.
<b>EEN-4532</b>	#EPHE-13508	An issue related to Force Review was reported. If multiple index fields were marked for 'Force Review' on Batch Class Management screen, then the 'ForceReview' tag was being set to 'True' only for the first field that was being marked for Force Review on the UI. The value for 'ForceReview' tag was not being set to 'True' for subsequent fields.
<b>EEN-4533</b>	#EPHE-13465	An issue related to Batch Class Fields Dialog Box was reported where the customer wanted to increase the size of the dialog box to show all fields. The customer wanted the operator to be able to see all Batch Class fields in one view by stretching out the size of the Batch Class field dialog box without having to scroll.
<b>EEN-4584</b>	#EPHE-13588	An issue was noticed where customer was receiving an error when uploading a batch through the web interface using Ephesoft v4.0.6.0 with SQL Server. The issue only occurred when uploading through the interface and using the test classification utility. When dropping files into the shared folder for this batch class, there was no error. On turning off the Advanced Document Assembler algorithm, the issue was not replicable.
<b>EEN-4669</b>	#EPHE-13633	The issue was that graphicsmagick was not working properly for images with -quiet parameter.
<b>EEN-4677</b>	#EPHE-13601	An issue related to Fuzzy DB was noticed. After upgrading from Ephesoft v3.X to Ephesoft v4.0.6.0, some batches went into error. An HOCR error was noticed when there was a dash character "-" in the index field value, HOCR search was enabled, and that particular index field was chosen.
<b>EEN-4682</b>	#EPHE-13578	An issue related to Batch Class Import in Ephesoft v4.0.6.0 was reported. This was happening for batch classes having following sequence. <ul style="list-style-type: none"> <li>a. Export batch class from v4.0.5.x</li> <li>b. Import the above exported batch class in v4.0.6.0.</li> <li>c. Export the above imported batch class from v4.0.6.0.</li> <li>d. Import the above exported batch class in v4.0.6.0.</li> </ul>
<b>EEN-4680</b>	#EPHE-13662	An issue related to FieldValueChangeScript property in batch.xml file was noted. When a batch was processed through the Extraction module with Advanced Barcode or Barcode Extraction turned on in a Batch Class, the FieldValueChangeScript property was disappearing from the batch.xml file; <FieldValueChangeScript>true</FieldValueChangeScript> property is used to let Validation know that there is a field value change script. Code was optimized to fix this issue.
<b>EEN-4793</b>	#EPHE-13716	An issue was noted in Review and Validation modules where the Document Tree Error Message tooltip was exposing HTML instead of displaying proper tooltip text. The customer was using custom HTML tagging in scripting to make the index field tooltip formatting more user friendly for error messages. However, when

JIRA ID	Axosoft ID	Bug Description
		hovering over the document in the document tree, literal strings showing all the html tags were being displayed. Code was optimized to fix this issue.
<b>EEN-4795</b>	#EPHE-13718	Issues related to Web Scanner with insert and rescan on Ephesoft v4.0.5.0 and v4.0.6.0 were noted. The scanners in question were Fujitsu Fi-6670 and Fi-6770 using PaperStream IP v1.21 on Mozilla Firefox and Internet Explorer browsers. Clearing out Temp files and browser cache were not helpful. Code was optimized to fix this issue.
<b>EEN-4791</b>	#EPHE-13728	An issue related to Ephesoft v4.0.5.2 was noted where PDF files with electronic signatures were not being processed. On further investigation, it was noticed that the issue was related to Savelmage.exe which was failing for secured PDF. The PDF file in question was password protected with restrictions such as document assembly and page extraction being not allowed. It was also failing when the Savelmage command was executed from command prompt. Issue was fixed in v4.0.6.1 Savelmage.exe.
<b>EEN-4361</b>	#EPHE-13334	An issue was noted in Review and Validation modules where the Document Tree Error Message tooltip was exposing HTML instead of displaying proper tooltip text. The customer was using custom HTML tagging in scripting to make the index field tooltip formatting more user friendly for error messages. However, when hovering over the document in the document tree, literal strings showing all the html tags were being displayed. Code was optimized to fix this issue.
<b>EEN-4726</b>	#EPHE-13688	An issue was noted with Ephesoft v4.0.6.0 where RecoStar PDF to TIFF conversion was failing when uploading a file in Upload Learn File functionality. No error message pop-up was observed on the Ephesoft UI. On changing this conversion process from RecoStar to Ghostscript the learning was successful. Code was optimized to fix this issue.
<b>EEN-4728</b>	#EPHE-13683	An issue was noted with Ephesoft v4.0.6.0 on Linux where ocrClassifyExtract Web Service was reordering pages in wrong order. While sending in a multipage page document to ocrClassifyExtract Web Service, it was splitting the pages up and putting them in a wrong order which was different then how the pages came in. As the pages were coming in a different order, the actual FIRST page of the document was now somewhere in the middle causing classification to see a FIRST page and split the document up into multiple documents. This resulted in bad extraction since some of the extraction rules were based on FIRST page extraction only. This was only happening when using the web service and not happening in the normal workflow. Code was optimized to fix this issue.
<b>EEN-3807</b>	#EPHE-12714	Customer was facing folder import issues after an upgrade from v4.0.3.0 to v4.0.5.0. The issue seemed to happen only when the RecoStar PDF to TIFF conversion was used. Batches were processing correctly when Ghostscript was used. Issue was related to creation of corrupted SER files. Code was optimized to fix this issue.
<b>EEN-4975</b>	#EPHE-13749	An issue was noted with Barcode classification where Ephesoft was looking for a barcode (Barcode type Page level field) on each page. If found, then a new document was being created beginning from that page and all upcoming pages were appended to that document unless they had barcode on them. Issue was fixed by setting the value of DA Merge Unknown Document Switch property for Barcode Classification as ON.