



Ephesoft Transact

Release Notes

Version 4.5.0.1

1

June 14, 2018

Document Revision 1.1

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Revision History

Date	Version	Revision	Description
May 9, 2018 3:00pm, US Pacific	4.5.0.1 (Maintenance)	1.0	Ephesoft Transact <i>Release Notes</i> published for Release 4.5.0.1
June 14, 2018 3:00pm, US Pacific	4.5.0.1	1.1	Added new restriction with workaround: Restriction and Workaround Image Size Restrictions with Recostar for Windows

Welcome to Transact 4.5.0.1

Thank you for choosing Ephesoft Transact. We are pleased to give you Ephesoft Transact version 4.5.0.1 — May 11, 2018. Document Revised Jun 14, 2018.

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- Ephesoft is committed to providing the highest level of support for our users.
- We will log your request and consider every suggestion. Our support team is available to answer your queries. We strive to improve every documentation release.
- Send your feedback to: tickets@ephesoft.com
- We are looking for:
 - Problems that you may encounter when following our instructions.
 - Additional topics that you think are important.
 - Additional resources:
 - For online service, support, training, and documentation, visit <http://www.ephesoft.com/>.
- A summary of online resources is available in this document. Refer to [Product Documentation and Resources](#).

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Introduction

This document introduces Ephesoft Transact 4.5.0.1 and contains the following sections:

- [Ephesoft Transact 4.5.0.1 Installation Notes](#)
- [Ephesoft Transact 4.5.0.1 Features and Enhancements](#)
- [Ephesoft Transact 4.5.0.1 Fixes and Improvements](#)
- [Ephesoft Transact 4.5.0.1 Platform Support and Third-Party Integrations](#)
- [Ephesoft Transact 4.5.0.1 Licensing](#)
- [Ephesoft Transact 4.5.0.1 Restrictions and Workarounds](#)
- [Product Documentation and Resources](#)

For complete information about the features, requirements and specifications for Ephesoft Transact 4.5.0.1 and 4.5.0.0, refer to the following resources:

- Latest Product Installers and Ephesoft Transact 4.5.0.x Release Notes:
<http://demo.ephesoft.com/products/ephesoft-transact/>
- Ephesoft Transact Product Documentation on the Ephesoft Wiki:
<http://wiki.ephesoft.com/home/documentation>

Ephesoft Transact 4.5.0.1 Installation Notes

The following information describes important preparations to make when installing or upgrading to Ephesoft Transact 4.5.0.1:

- **Prerequisite** — To install or upgrade to Transact Release 4.5.0.1, you must have Release 4.5.0.0 installed.
- **Time Requirements and Stopping Services for Upgrade** — Performing an upgrade to Release 4.5.0.1 may require a certain amount of time. The time duration can vary according to a number of factors.

To reduce the amount of time required for upgrade, Ephesoft recommends taking two steps prior to starting the upgrade:

- Stop the Transact service. This is a standard prerequisite step. Refer to the following document for additional information:
 - <http://wiki.ephesoft.com/microsoft-windows-transact-4-5-0-0-installation-guide-upgrade#Prerequisites>
- Stop the Tomcat server if it was started in either of the following two ways:
 - Two common ways to start the Tomcat server are either to start it directly from the app server, or from the **Programs** menu under **Start Ephesoft Server**.
 - If either method was used to start the Tomcat server, then it is mandatory to stop the Tomcat server prior to performing the Transact upgrade.

Additional installation information for Releases 4.5.0.1 and 4.5.0.0 is available at the following locations:

- Latest Product Installers and Ephesoft Transact 4.5.0.0 Release Notes
<http://demo.ephesoft.com/products/ephesoft-transact/>

- Product Documentation on the Ephesoft Wiki
<http://wiki.ephesoft.com/home/documentation>
- Windows Installer Upgrade — If you are upgrading to Ephesoft Transact 4.5.0.0 and above, please refer to the following document:
[Microsoft® Windows | Transact 4.5.0.0 – Installation Guide – Upgrade](#)

Ephesoft Transact 4.5.0.1 Features and Enhancements

Ephesoft Transact 4.5.0.1 has the following new features and enhancements:

- [Language | Chinese Language Support in Optical Character Recognition \(OCR\)](#)
- [Language | Language Support for Logi Analytics XML Reports](#)
- [Language | Language Support for the User Interface — European Languages](#)
- [OCR & Extraction | Nuance Version 20.2 in Transact 4.5.0.1](#)
- [OCR & Extraction | Fixed Form Template Editor in Nuance 20.2 in Transact 4.5.0.1](#)
- [Performance | Increased Buffer Size for Faster File Transfer](#)

Language | Chinese Language Support in Optical Character Recognition (OCR)

Ephesoft Transact 4.5.0.1 introduces support for the Chinese language on Windows systems with the Recostar OCR engine and Linux systems with the Nuance OCR engine. Support for the Chinese language has the following implementation in Transact 4.5.0.1:

- Supports OCR extraction for Chinese characters:
 - Standard Chinese
 - Traditional Chinese
- Note:** Due to restrictions with the OCR engines, Transact 4.5.0.1 does not support Mandarin Chinese.
- Improves the extraction algorithm for Chinese.
 - Improves the function of View OCR data for Chinese.
 - Supports Chinese characters in property files.
 - Integrates the Nuance Version 20.2 OCR engine for Linux platforms. Refer to [OCR & Extraction | Nuance Version 20.2 in Transact 4.5.0.1](#).

Note: Transact 4.5.0.1 only supports Chinese for OCR, not Japanese, Korean or Thai. This restriction is determined by OCR engine limitations that should be resolved in a future release.

Language | Language Support for Logi Analytics XML Reports

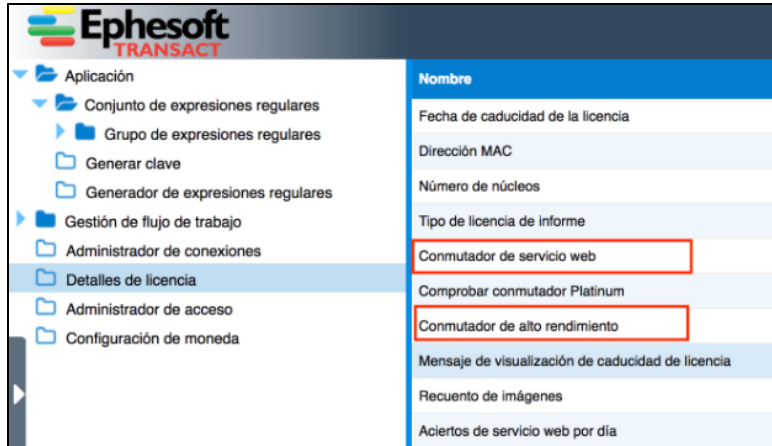
Ephesoft Transact 4.5.0.1 integrates and continues support for the Logi Analytics Platform for XML-based reports. Release 4.5.0.1 introduces translation for the following languages in Logi Reports:

- English
- French
- German
- Italian
- Spanish

Note: A future Transact 4.5.x.x release will add support for Dutch in Logi Analytics reports.

Language | Improved User Interface Translations for Spanish

Transact 4.5.0.1 implements improvements to Spanish translations in the user interface, which were first introduced in Release 4.5.0.0. The following snapshot illustrates one of several screens that offer improvements for Spanish in Transact 4.5.0.1:



License Screen Translations in Spanish, Transact Release 4.5.0.1

Ephesoft Transact 4.5.0.1 continues support for the following European languages in the user interface, which were first introduced in Ephesoft 4.5.0.0:

- Dutch
- English
- French
- German
- Italian
- Spanish

OCR & Extraction | Fixed-form Template Editor in Nuance 20.2

On Linux platforms, Ephesoft Transact 4.5.0.1 integrates the Nuance Fixed-form Template Editor with the Nuance 20.2 OCR engine.

- This fixed-form template editor allows users to create models that perform zonal extraction for fixed forms in the Chinese language. A checkbox is one example.
- A future release will introduce support for additional languages with the Nuance Fixed-form Template Editor.

Performance | Increased Buffer Size for Faster File Transfer

Ephesoft Transact Release 4.5.0.1 increases the buffer size and the rate of transfer during file import operations. As a result, file uploads are significantly faster in Release 4.5.0.1 than with Release 4.5.0.0 and previous releases.

Performance increases in Transact 4.5.0.1 have the following characteristics:

- Faster copying and import for files, new batches, and new batch classes
- Faster file learning
- Faster testing, classification, and extraction

The following table summarizes specific performance gains in Transact 4.5.0.1.

Note: The time figures cited below are in milliseconds.

Operation	File Size	Windows						Linux		
		Upload time in local shared folder			Upload time in remote shared folder			Upload time in local shared folder		
		4.5.0.1 time (ms)	4.5.0.0 time (ms)	Improve-ment %	4.5.0.1 time (ms)	4.5.0.0 time (ms)	Improve-ment %	4.5.0.1 time (ms)	4.5.0.0 time (ms)	Improve-ment %
Upload batch	1MB	68	78	12.8%	171	516	66.8%	16	31	48.3%
Upload batch	25.1MB	562	906	38%	1034	6719	84.6%	440	598	26.4%
Upload batch class	35.6MB	2219	2516	11.8%	11359	23551	51.7	750	1447	48.1%
Upload batch class	620MB	21117	42709	50.5%	129144	378289	65.8%	22997	21565	-6.6%
Import document type	35.3MB	3593	6547	45.1%	10499	25374	58.6%	1311	1172	-11.8%
Import document type	206MB	12210	16812	27.4%	43514	136821	68%	7526	7189	-4.6%
Document type learning	25.1MB	23907	51925	54%	49649	90387	45%	17922	26794	33.1%

Ephesoft Transact 4.5.0.1 Fixes and Improvements

Introduction

This section describes resolution to the following issues, effective with Ephesoft Transact 4.5.0.1:

- [Batch Class Management | Text Extraction on Document Type Screen](#)
- [Batch Processing | Batches Locking Up in Cleanup Module](#)
- [Batch Processing | Batches Locking up with Review or Validation Screens](#)
- [Batch Processing | Generating Overlaid Images](#)
- [Batch Processing | Resolution to Batch Class Showing Unknown in Review Screen](#)
- [Language Support | Drag-and-Drop Labels in German](#)
- [Language Support | Machine Learning: Doc-type Names and Non-English Characters](#)
- [Language Support | Recostar HOCR Plugin](#)
- [Review Screen | Save and Ctrl + E Keyboard Shortcut](#)
- [Review and Validation Screens | Labels of Any Length](#)
- [User Interface | Browser Support](#)
- [Web Services | Search Classification](#)

Batch Class Management | Text Extraction on Document Type Screen

Ephesoft Transact 4.5.0.1 improves the **Document Type** screen. In previous releases, the **Test Extraction** button was not translated properly in some languages.

Also refer to [Language | User Interface Translations for European Languages](#).

Batch Processing | Batches Locking Up in Cleanup Module

Previous Transact releases might experience deadlock exceptions when a batch class status was being updated to **Finished**, at the completion of the workflow.

Ephesoft Transact 4.5.0.1 resolves this potential issue.

Batch Processing | Batches Locking up with Review or Validation Screens

Previous Transact releases may have locked users up and not released users from a batch when the **Review/Validate** window was closed. The workaround in previous releases was to set the Web Service switch to **On** in the Transact license. Ephesoft Transact 4.5.0.1 resolves this issue and no additional workaround is necessary.

Batch Processing | Generating Overlaid Images

Previous Transact releases may have experienced issues with overlaid images, in either of the following two scenarios:

- Transact may have started to process a file while it was still being uploaded. This was particularly prone to occur when uploading a large file directly to a UNC folder.
- Transact may have copied PDF files incorrectly into a system folder from a UNC folder, when only TIFF files should have been copied.

Ephesoft Transact 4.5.0.1 resolves both issues with overlaid images.

Batch Processing | Resolution to Batch Class Showing Unknown in Review Screen

Ephesoft Transact 4.5.0.1 resolves an issue with the **Review** screen in the Linux environment. This former issue would result in all batch classes showing as **unknown** for all doc types in the **Review** screen.

Language Support | Drag-and-Drop Labels in German

Previous Transact releases may have distorted drag-and-drop labels when the locale was set to German.

Ephesoft Transact 4.5.0.1 resolves this issue, and properly aligns labels for all supported languages.

Language Support | Machine Learning: Doc-type Names and Non-English Characters

Previous Transact releases may have experienced issues with learning in languages that used non-English characters. This was particularly the case with accented characters being used in document type names.

Also, Transact 4.5.0.0 may have experienced errors when importing batch classes when machine learning training is present or enabled.

Ephesoft Transact 4.5.0.1 resolves these issues, and provides proper UTF-8 encoding during learning.

Language Support | Recostar HOCR Plugin

Previous Transact releases may have experienced an issue with the **Shift** button being disabled for the Recostar HOCR plugin. This issue was limited to Windows systems with Recostar.

This particular issue would create difficulty with European languages, which may often require the **shift** key to add a language separator symbol (semicolon — ;).

Ephesoft Transact 4.5.0.1 now allows European keyboards to select languages in the Recostar HOCR plugin.

Review Screen | Save and Ctrl + E Keyboard Shortcut

Release 4.5.0.1 supports normal **Save** functions on the **Review** screen during batch instance configuration. You can save your changes by clicking the **Save** button or the **Ctrl + E** keyboard shortcut, then exiting the **Review** screen.

In Release 4.5.0.0, when using the **Review** screen to configure one or more settings for a batch instance, the keyboard shortcut **Ctrl + E**, or the **Save** button, may not have saved the settings just made on the **Review** screen.

Review and Validation Screens | Labels of Any Length

Previous Transact Releases may not display the button titles on the **Review/Validate** screen. Some buttons would have truncated button titles, making the user interface more difficult to use. Ephesoft Transact 4.5.0.1 revises button width on these screens.

User Interface | Browser Support

Release 4.5.0.0 resolved certain browser-specific operational limitations from previous releases, and these improvements continue in Release 4.5.0.1.

Additional information about browser support is available throughout user documentation during the general release.

Web Services | Search Classification

Ephesoft Transact 4.5.0.1 correctly updates serialized files, while copying the document type through the CopyDocumentType web services. This resolves errors that may have occurred in previous Transact releases.

Ephesoft Transact 4.5.0.1 Platform Support and Third-Party Integrations

For the latest and most complete summary of operating systems, application servers, Web Servers, client environments and third-party components in Ephesoft Transact 4.5.0.1, refer to the following web page:

<https://wiki.ephesoft.com/home/documentation/platform-configuration-and-third-party-integrations>

OCR & Extraction | Nuance Version 20.2 in Transact 4.5.0.1

Ephesoft Transact Release 4.5.0.1 upgrades the Nuance OCR engine to Nuance Version 20.2, which supports Linux operating systems. This upgrade integrates multiple Nuance improvements for OCR in the Linux environment.

For additional information about general operating system support, refer to [Ephesoft Transact 4.5.0.1 Licensing](#).

Ephesoft Transact 4.5.0.1 Licensing

Licensing | Logi License Restriction

For users who require report functions in Transact 4.5.0.1, the **Reports > Dashboard Reports** screen may display the following notice:

License File Note

The Logi Info Server license file `Igx110102.lic` for this computer expired on 2018-03-13. Running under a grace period until 2018-03-20.
[Click here to visit Logi DevNet and learn more.](#)

This issue has been resolved. If you encounter this message, please note that Transact 4.5.0.1 logging is operational. However, you must implement the following workaround.

1. In this instance, replace the old license file with new license file (**Igx110102.lic**) in this folder:
C:\Ephesoft\EphesoftReports
2. Please access and implement the workaround that is available in the following article:

<http://wiki.ephesoft.com/known-issue-logi-license-expiration>

Ephesoft Transact End of Life Information

Our policy here at Ephesoft is to support two major releases of Transact concurrently. This means that our Support team will be providing service for any 4.1.x or 4.5.x version of Transact now that Transact 4.5.0.0 is generally available.

Ephesoft will provide a grace period for Transact 4.0.x support until September 30th, 2018. At that time, a limited support extension will be available for Transact 4.0.x at an additional cost for those needing additional time to plan their upgrade. For more information please contact our sales team at sales@ephesoft.com.

Refer to the *Ephesoft Lifecycle Policy* at this location:

<https://wiki.ephesoft.com/category/documentation/lifecycle-policy>

Ephesoft Transact 4.5.0.1 Restrictions and Workarounds

Introduction

This section presents certain restrictions or workarounds that may be applicable during the operation of Ephesoft Transact 4.5.0.1:

- [Restriction | Language: Bar Code Reader Restrictions for Chinese](#)
- [Restriction | Language: Tabbed PDF Plugin for CJKT Languages Unavailable](#)
- [Restriction and Workaround | Image Size Restrictions with Recostar for Windows](#)
- [Workaround | Batch Processing: Page Process Module](#)
- [Workaround | OCR: Extraction Limitations for CJKT Languages](#)
- [Workaround | OCR: Keyword Classification for French](#)

Restriction | Language: Bar Code Reader Restrictions for Chinese

Ephesoft Transact 4.5.0.1 may not successfully extract bar code values in the Chinese language. This restriction applies to the following types of installation:

- Windows with the Recostar OCR engine
- Linux with the Nuance OCR engine

Restriction | Language: Tabbed PDF Plugin for CJKT Languages Unavailable

Ephesoft Transact 4.5.0.1 does not support Chinese, Japanese, Korean or Thai (CJKT) languages with the Tabbed PDF plugin.

- This plugin will render characters from CJKT languages as question marks when generating tabbed PDF bookmarks.

The Tabbed PDF plugin will support additional CJKT languages in a future release.

Restriction and Workaround | Image Size Restrictions with Recostar for Windows

Under certain conditions, when processing multiple images in a single batch, one or more images in that batch will not generate HOOCR files. The same images do generate HOOCR files correctly when the images are processed separately.

- *This apparent issue derives from the size of the original images, and corresponds to an operational restriction with Recostar.*

The Recostar OCR engine requires that all images fall within the following size restrictions:

- **Maximum image height** — 24000 pixels
- **Maximum image width** — 32000 pixels
- **Temporary image processing restriction** — During image processing, Recostar creates a temporary uncompressed image, and this image must not exceed 512MB. This restriction for the temporary file size has the following impact on image size restrictions:
 - A color image must not comprise more than 170 million pixels.
 - A grayscale image must not comprise more than 512 million pixels.

Workaround — To successfully process incoming image files that are too large in the original, perform one or more of the following steps to reduce image size and complete OCR functions correctly:

- Verify that the image DPI resolution is set to correct dimensions, and if necessary, reduce DPI resolution to fall within the maximum allowable image height and width.
- If the original images are in color, scan them to grayscale before running them as a batch in Recostar.

Workaround | Batch Processing: Page Process Module

Ephesoft Transact 4.5.0.1 may experience batches stalling while in the Page Process module. This may occur on Windows systems with the Recostar OCR engine, in which one or more CJKT languages are selected.

Workaround — Ephesoft recommends that you only enable one CJKT language at a time (Chinese) when configuring the Recostar plugin for OCR, extraction, classification or page processing.

Workaround | OCR: Extraction Limitations for the Chinese Language

Ephesoft Transact 4.5.0.1 introduces certain improvements to OCR, classification or extraction in Chinese.

Note: Transact 4.5.0.1 only supports Chinese for OCR, not Japanese, Korean or Thai. This restriction is determined by OCR engine limitations that should be resolved in the near future.

There remain some restrictions in Ephesoft Transact 4.5.0.1 which may entail one or more of the following areas:

- Value coordinates may be incorrect in Chinese, and should be verified manually.
- Numeric values may not be classified in the correct language during OCR or classification. These should be verified manually.
- Handwritten text may not be recognized in Chinese.
- Multiple words may be converted into a single word.

Workaround — To help reduce errors, and to improve OCR and extraction accuracy with CJKT languages, only enable the Chinese language. This applies to Recostar for Windows systems or Nuance for Linux systems.

Note: Transact 4.5.0.1 only supports Chinese for OCR, not Japanese, Korean or Thai. This restriction is determined by OCR engine limitations that should be resolved in the near future.

Workaround | OCR: Keyword Classification for French

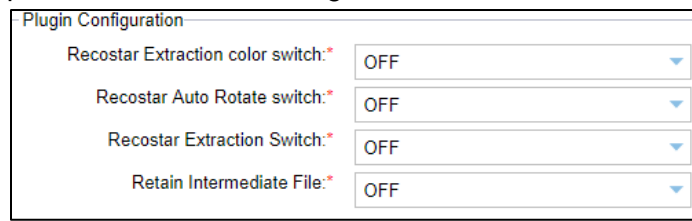
Transact 4.5.0.1 may experience difficulty with keyword classification in French during OCR, classification and extraction. This restriction applies to the following environment:

- Windows OS
- Recostar
- French language OCR with the RECOSTAR_EXTRACTION plugin enabled in the **Extraction** module

For example, an OCR classification rule set for the French word "WEGMÛLLER," may extract "WEGMOLLER." A workaround is available for this issue.

Workaround — Disable the **color switch** setting in the RECOSTAR_EXTRACTION plugin. Follow these steps:

1. Log in to Transact, and navigate to **Administrator > Batch Class Management**.
2. Select the batch class that supports OCR for French and click **Open**.
3. Navigate to the Extraction module: **Modules > Extraction**.
4. Select or click on the **RECOSTAR_EXTRACTION** plugin. The **Plugin Configuration** screen appears, with current settings.



RECOSTAR_EXTRACTION Plugin Settings

5. Set the Recostar Extraction color switch field to OFF.
6. Click **Apply** and **Deploy** to register and activate the changes.

Product Documentation and Resources

Transact 4.5.0.1 has the following resources available for support, training and user reference.

- [Ephesoft Demo](#)
- [Ephesoft Wiki](#)
- [Transact Home Page \(live installation\)](#)
- [Developer Resources](#)

Ephesoft Demo

<ul style="list-style-type: none"> • Demo Home Page 	http://demo.ephesoft.com/ Registration is required.
<ul style="list-style-type: none"> • Dashboard landing page If you are not forwarded to the Dashboard automatically from the Home page, then in the	http://demo.ephesoft.com/dashboard/ <ul style="list-style-type: none"> • Demo scripts • Demo videos • Sample images and document files • Launch Ephesoft Transact to sample the user interface

navigation pane on the left, click Dashboard .	<ul style="list-style-type: none">• Reset batch classes• Submit demo batches• Web services demo• SnapDoc for mobile application• Ephesoft sizing calculator tool
<ul style="list-style-type: none">• Products landing page	http://demo.ephesoft.com/products/
<ul style="list-style-type: none">• Transact Page	http://demo.ephesoft.com/products/ephesoft-transact/ <ul style="list-style-type: none">• Installation and Upgrade• Release Notes• Workarounds• Datasheets & Quick Cards• Technical Overview• Videos• Presentations• Sales Tools

Ephesoft Wiki

<ul style="list-style-type: none"> • Wiki Home Page 	http://wiki.ephesoft.com/
<ul style="list-style-type: none"> • Knowledge Base 	http://wiki.ephesoft.com/home/knowledge-base <ul style="list-style-type: none"> • How to Articles • Operator UI • File Import • Reporting • Export • Videos • Documentation • Other • Classification • Capture • Security • System • Scripting • Downloads • Archive
<ul style="list-style-type: none"> • Product Documentation 	http://wiki.ephesoft.com/home/documentation <ul style="list-style-type: none"> • What's New • Wiki articles covering several high-visibility features of the latest release (Wiki articles)
	<ul style="list-style-type: none"> • General Documentation • Developers Guide • Release Notes • Plugins • Installation • Folder Management • Reports • System Configuration • Features • Review Document • Validation Document
<ul style="list-style-type: none"> • Developers Guide Transact 	http://wiki.ephesoft.com/developers-guide <ul style="list-style-type: none"> • Web Services • Scripting Guide • Custom Plugins • External Applications
<ul style="list-style-type: none"> • Download 	http://wiki.ephesoft.com/home/download <ul style="list-style-type: none"> • Updates • Security Patches

Transact Home Page (live installation)

If you have access to a live installation of Transact, you have access to the following resources on the Home page after initial login:

<ul style="list-style-type: none"> • Administrator Screens <ul style="list-style-type: none"> ○ Batch Class Management ○ Batch Instance Management ○ Folder Management ○ Reports 	<ul style="list-style-type: none"> • Operator Screens <ul style="list-style-type: none"> ○ View My Batches ○ Open Next Batch ○ Scan New Documents ○ Upload New Documents
<ul style="list-style-type: none"> • Wiki <ul style="list-style-type: none"> ○ How to? ○ Video Tutorials ○ Tutorials ○ Downloads and Updates 	<ul style="list-style-type: none"> • Documentation <ul style="list-style-type: none"> ○ Developer’s Guide ○ What’s New ○ Batch Class Management ○ Review ○ Validation ○ Mobile SDK
<ul style="list-style-type: none"> • Company <ul style="list-style-type: none"> ○ Certification and Training ○ Products ○ Contact Us 	

Developer Resources

<ul style="list-style-type: none"> • Ephesoft Web Services API Guide 	<p>https://www.ephesoft.com/learn/developers/</p> <p>Provides links to our Wiki and guides to the full range of APIs available for the Transact Capture Suite.</p> <ul style="list-style-type: none"> • 1 Ephesoft Script Guide • 2 Ephesoft Plugin Dev • 3 Integrating External Applications with Ephesoft Validation • 4 Netbeans IDE Setup • 5 Web Services API • Version 4.5 Latest Webservices • Version 4.0 Latest Webservices
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