

ABBYY Recognition Server 3.0

Product Information



Document capture the smart way

ABBYY Recognition Server 3.0 is a robust, powerful and cost-effective document capture solution. It streamlines business processes by capturing paper documents, converting them to image, editable and searchable formats, indexing and delivering captured documents into e-archives, enterprise content management and search systems.

ABBYY award-winning technology inside

ABBYY Recognition Server delivers a highly accurate result, thanks to the ABBYY award-winning OCR technology, which supports 190+ OCR languages. ABBYY Recognition Server converts images and scanned documents into a variety of output formats suitable for archiving, sharing and editing, such as PDF, PDF/A, XML, RTF, and Microsoft® Office 2007 formats.

Designed for processing high-volumes of documents

ABBYY Recognition Server is known for its unmatched scalability. The solution is easily extendable to multiple CPUs and servers, and therefore can cope with any volume of documents, processing them in scheduled hours or round-the-clock.

Quick in deployment and easy in use

ABBYY Recognition Server has an intuitive interface and can be set up and operated without preceding training. Processing stages that require minimal user involvement, such as OCR and document conversion are automated, and convenient tools are provided for manual operations like scanning, indexing and verification.

Compatible with scanners and content management systems

ABBYY Recognition Server supplements any scanning device or backend software with a powerful document capture functionality. Integration with a scanner or another application can be done in various ways, from exchanging e-mails to tight bonding via API.

Ready-made connectors to Microsoft and Google Enterprise Search systems

ABBYY Recognition Server not only acts as a standalone document capture solution, but also connects as a background OCR server to the enterprise search systems such as Google Search Appliance™ and Microsoft Office SharePoint® Server, as well as Windows® Desktop Search enabling the aforementioned systems with the ability to index and search through the content of image documents.

New languages

The first time ABBYY Recognition Server supports ABBYY-proprietary OCR technology for Chinese (Traditional and Simplified), Japanese, Korean, Vietnamese, and Yiddish.

Product Benefits

Care of the whole document capture process:

ABBYY Recognition Server 3.0 covers all basic steps of the document capture:

- Scanning
- Indexing
- Exporting documents to archiving and content management systems.

Document separation rules

ABBYY Recognition Server introduces scripting functionality that allows the administrator to create more flexible rules for document separation.

Fast ROI on a document capture solution

ABBYY Recognition Server is powerful software, easy in configuration and integration into workflow. The product can be set up and running in a matter of hours making the document capture process in your organization smooth and efficient.

Functionality



Import of Images

The Server Manager component imports images from the Input sources and arranges them in a queue for processing.

Input sources:

- shared folders;
- FTP folders;
- mailbox folders;
- separate scanning station.

Recognition

The first image file from the queue is routed to a Processing Station for recognition. If there are several Processing Stations in the system, the Server Manager will distribute the files from the queue among these Processing Stations evenly.

Verification (optional)

If verification is turned on in the workflow settings, pages that require verification will be queued for verification once they are recognized. The Server Manager will route the queued pages to available Verification Stations.

Document Separation

The batch can be split into individual documents using blank separator sheets, barcode sheets, or barcodes stuck or printed on the first page of each document. Separation can be based on the rule and the recognized data, and can also be performed using scripting functionality.

Indexing (optional)

If indexing is required, the operator can simply outline the necessary areas on the page, and the attribute fields will be populated automatically. Additionally, indexing scripts can be used to automate document type detection and indexing.

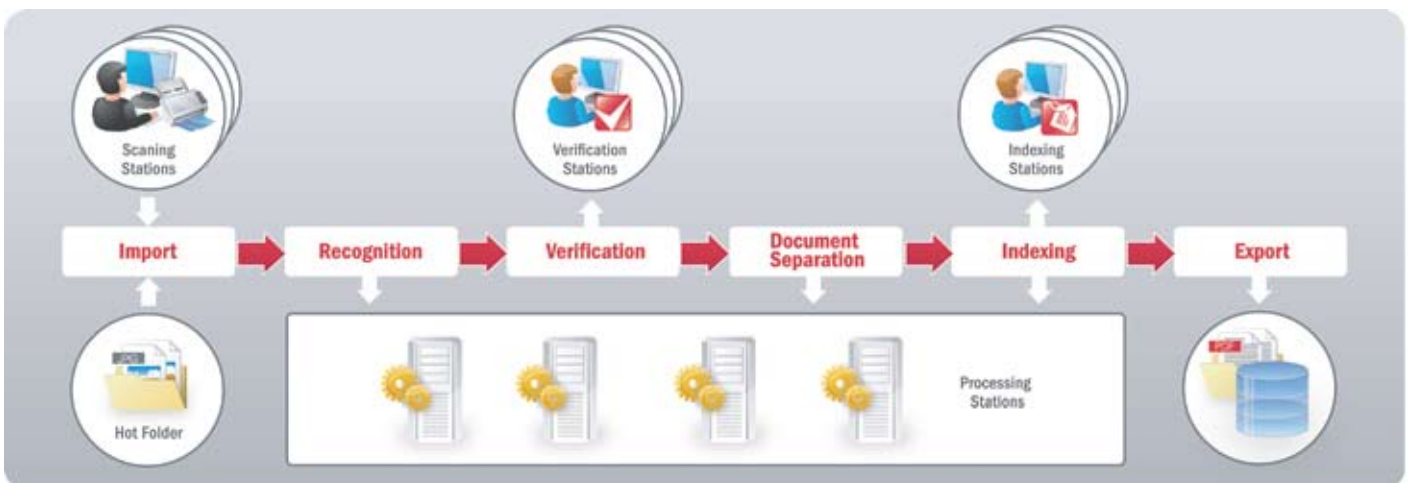
Export

After all the pages of the document are recognized, the Server Manager will deliver the output document to its destination.

Export destinations:

- network folders;
- SharePoint® library;
- e-mail addresses.

Moreover, export scripts can be used to deal with the resulting files and perform additional operations after processing.



Fault Tolerance

ABBYY Recognition Server 3.0 is designed to run unattended, it has special fault tolerance features that ensure robustness of the system:

- The main components, the Server Manager and the Processing Stations work as Windows services and start automatically at Windows startup.
- The Server Manager periodically checks connection with the stations. If connection is lost, it will be automatically re-established.
- Documents are processed so that no data are lost in the case of a system failure. If a station processing the document experiences a failure, the document will be automatically re-routed to another available station or remain in the queue until there is an available station.

Error Handling

- Quality control – The administrator can set a threshold for recognition accuracy, so that documents with poor quality text will not be exported, but rather stored in a separate folder for special treatment.
- Job cancellation – The administrator can set a timeout for automatic cancellation of a job.
- Logs – All the events are logged by the system, so that the administrator can backtrace errors.

Architecture

ABBYY Recognition Server consists of the following main components:

Server Manager – The main component that works as a Windows® service, coordinates the work of other components, manages licenses and all processing options, and distributes various recognition and conversion jobs among processing, verification and indexing stations.

Processing Station – A Windows® service that directly performs OCR and PDF conversion. The system is easily scalable by adding additional processing stations.

Scanning Station New! – an easy to use and intuitive application for batch scanning.

ABBYY Scanning Station main functionality:

- initiate and stop scanning, set scanning parameters;
- preview scanned images, control quality of the scanned images;

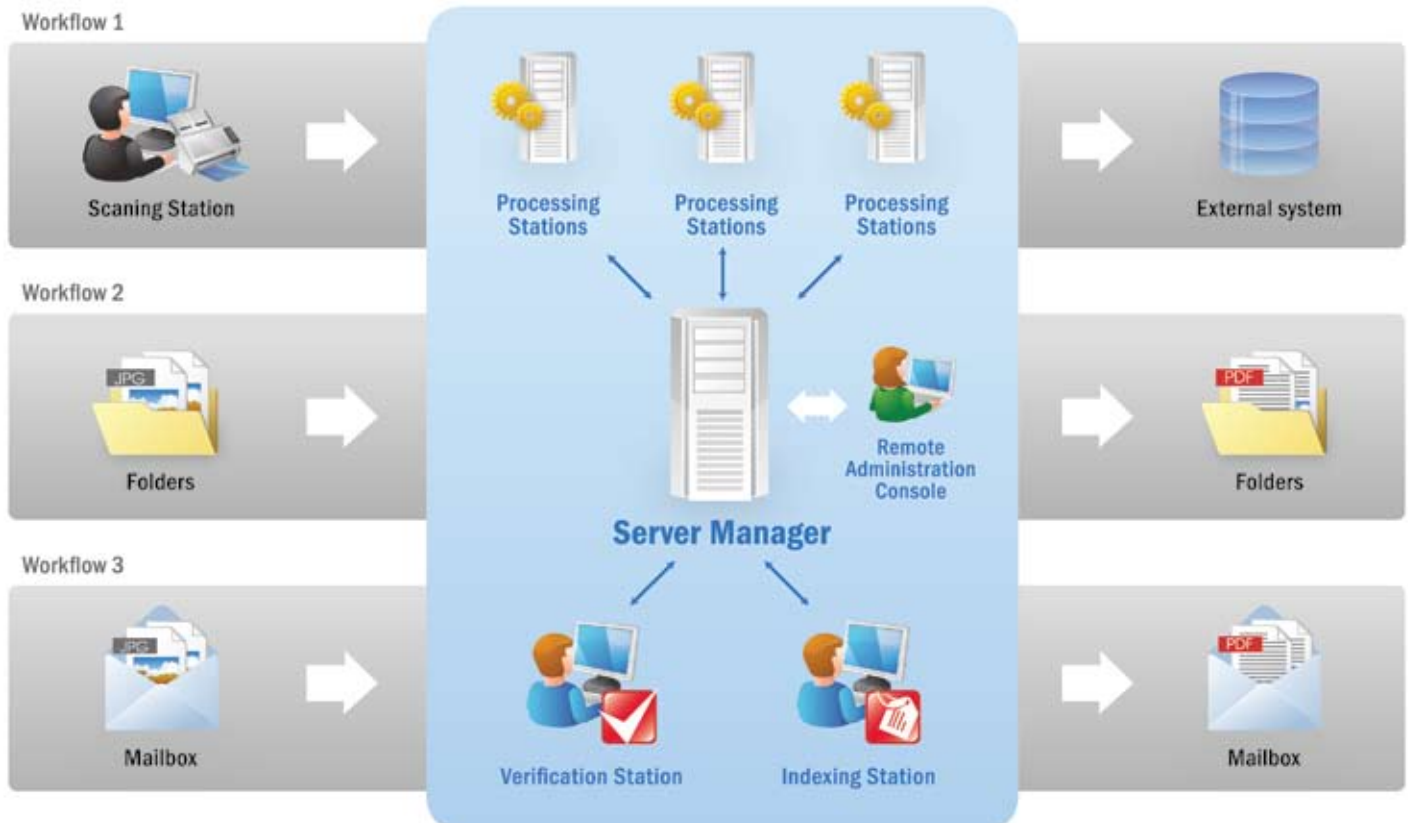
- separate batches into documents based on separator sheets.

ABBYY Recognition Server 3.0 Scanning Station supports scanning with TWAIN, WIA and ISIS drivers.

Verification Station – A client station which allows to proofread the recognition results.

Indexing Station New! – provides functionality for setting the document type and filling document attributes. For each document the operator selects a document type from the drop-down list and fills in the attribute fields corresponding to the selected type. The document that comes to the indexing station already contains the recognized text.

Remote Administration Console – A Microsoft® Management Console snap-in that provides a common administration interface for configuration and monitoring of Recognition Server.



Integration

ABBYY Recognition Server 3.0 provides various means of integration with other front-end and back-end systems, as well as with network scanners and MFPs:

- COM-based API – an open COM-compatible programming interface that enables Recognition Server to exchange image files and recognition results with other applications.

- Web Service API – a Web-based programming interface that supports cross-platform integrations and integration with remote applications over HTTP protocol, as well as using Recognition Server in a Service-Oriented (SOA) environment.

- XML tickets – a way to customize processing parameters for individual files using a special XML file (so-called "XML ticket") which can be generated programmatically by the client application.

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Specification

System requirements

- PC with a 500 MHz or higher processor
- Operating system: Microsoft Windows Server 2008, Windows Vista®, Windows Server 2003, Windows XP, Windows 2000
- 128 MB of RAM and an additional 100 MB for each recognition process
- 700 MB of hard-disk space
- Microsoft .NET Framework 1.1 or later
- Microsoft Outlook 2000 or later (for processing and sending e-mails)

Recognition Languages

- 37 main languages of Latin, Cyrillic, Armenian characters with dictionary support
- 133 additional languages with Latin, Cyrillic, or Greek characters
- Vietnamese, Hebrew with dictionary support
- Chinese, Japanese, Korean, and Thai
- 5 old European languages
- 4 artificial languages (Esperanto, Interlingua, Ido, Occidental)
- 6 programming languages
- Simple chemical formulas
- Digits

Print Types

- Normal, typewriter, dot-matrix printer, Gothic, OCR-A, OCR-B, MICR (E13B), Fax
- Barcode Types 1D: Check Code 39, Check Interleaved 25, Code 128, Code 39, EAN 13, EAN 8, Interleaved 25, CODABAR (without checksum), UCC Code 128, Code 2 of 5 (Industrial, IATA, Matrix), Code 93, UPC-A, UPC-E and Postnet
- Barcode 2D: PDF 417, Aztec, DataMatrix, QRCode

Image Input Formats

- TIFF: black and white, gray, color, multi image.
- Compression methods: Unpacked, CCITT Group 3, CCITT Group 3 FAX(2D), CCITT Group4, PackBits, JPEG, ZIP, LZW
- JPEG, JPEG 2000 part1: gray, color
- PDF
- DjVu
- BMP: black and white, gray, color
- PNG: black and white, gray, color
- PCX, DCX: black and white, gray, color

Output Formats

- PDF, PDF/A-1a, PDF/A-1b
- RTF
- DOC, DOCX, Word XML
- XLS, XLSX
- TXT, CSV
- HTML
- TIFF
- JPEG, JPEG 2000
- XML
- FineReader internal format (FineReader Engine-compatible)

Main Usage Scenarios

Creation of Searchable Archives and Digital Libraries

ABBYY Recognition Server takes care of the whole document capture routine, providing convenient tools for batch scanning, recognition, verification, attributing, full-text indexing, and document conversion. It converts scanned documents to searchable PDF and PDF/A standard for long-term preservation. ABBYY Recognition Server is designed to operate 24x7 and can successfully handle largest projects in which millions of pages have to be converted in very tight timeframes.

Document Capture Front-End for ECM Systems

With the introduction of Scanning Station and Indexing Station, ABBYY Recognition Server now offers sufficient functionality to capturing documents to a DMS/CMS on a daily basis. The documents are classified, either automatically or by an operator, and routed to the appropriate destination based on the document type and attributes. The product can also operate as a web service and supports remote document upload, therefore its implementation is not constricted to one office but can serve several remote entry points as well.

OCR for Enterprise Search

ABBYY Recognition Server may be used as an OCR add-on to Google and Microsoft Enterprise Search Systems. Normally Enterprise Search Systems are only capable of indexing documents that contain text: HTML, DOC, PDF files, etc. But obviously, not all knowledge in a company is stored in the formats immediately suitable for full text indexing. Some knowledge may be stored as scanned documents and faxes and the content of these documents is unavailable for indexing. Converting these documents into searchable formats is an additional business process. ABBYY Recognition Server makes this important function run automatically.

Ad Hoc OCR Service

For large organizations with hundreds or even thousands of employees ABBYY Recognition Server serves as a corporate OCR service for various OCR and conversion jobs and can be accessed via e-mail and/or bound to company's MFPs. Employees can use the OCR service at any time, even outside normal business hours, and from any location. Moreover, there is no need for an administrator to install the program on each workstation in the local network – only one installation is required.

Trial and Licensing

ABBYY offers fully functional trial versions with time and page limitations. Competitive software upgrade and assurance packages ensure compatibility with the latest ABBYY technologies.

Pricing and Availability

The price depends on the functionality included and the number of pages which can be processed. Please contact ABBYY certified value added distributors and resellers in your region.

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