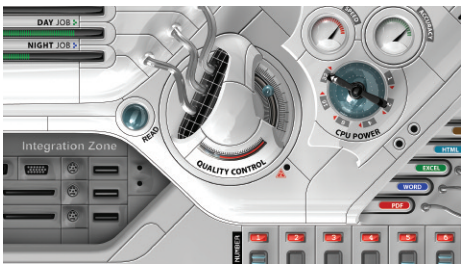
ABBYY® Recognition Server



Server-based OCR and PDF Conversion Solution

ABBYY Recognition Server is a robust server-based solution for automating the recognition and document/PDF conversion process in enterprise environments. It is a scalable, reliable, and rapidly deployable solution for high performance delivery of optical character recognition (OCR) functions in situations where centralised processing management and greater flexibility in integration is needed. OCR functions can be easily used together with existing infrastructures and third-party applications.

Based on ABBYY´s award-winning document recognition platform, ABBYY Recognition Server is a turnkey solution for service-based document recognition and PDF conversion functionality. It delivers highly accurate conversion of PDF files, images, and scanned documents into text for the purpose of categorising, searching, and export into third party systems for document storage and management.

OCR via a Service-Based Architecture

ABBYY Recognition Server places all of the recognition processing functions on a server as opposed to the client. As a result, customers benefit from the following key benefits associated with service-based architectures:

- **Automated OCR processing with centralised management**
  Organisations can centrally pre-define settings and control functions across the enterprise. A remote management console serves as a central point for defining processing parameters and managing recognition stations so that they can create specific "workflows" for a particular workgroup or project. Corporate users can access powerful recognition functions without the need for individual training or task configuration.

- **Independent, server-based processing**
  Recognition and conversion is performed remotely on the server as background process, working independently without affecting other tasks running on client workstations. Processing can take place unattended and "instantly," upon the placement of a document in a certain "watched folder," or at scheduled times.

- **High volume processing, extendable scalability**
  Recognition Server can handle any volume of documents because it is not limited by the constraints of a desktop workstation. Concurrent processing with automatic job distribution maximises throughput. Processing power is easily extended by simply adding additional processing stations and CPUs because a Server Manager can easily manage clusters of recognition stations.

- **Fast deployment, simple integration, and interoperability**
  Flexible enough to respond to rapidly changing business needs, Recognition Server can be deployed as a complete stand-alone solution or work with an external application. It is easy to deploy Recognition Server because it offers:

  - **Ready-to-use functions**. A standard set of ready-to-use functions for key processes (e.g. converting images to searchable PDFs) requires minimal pre-configuration to get up and running.

  - **Open API**. Companies can add powerful OCR without disrupting their existing document management process.

  - **XML-Ticket support.** Enables instant management of processing from the client side or third party applications.

- **Fault tolerance**
  Includes built-in functionality to ensure ongoing stability of the system and thus protect data. Functions include server pinging to ensure proper functioning, server/job logging, automatic restart, and job re-routing in case of system failure.

How ABBYY Recognition Server Works

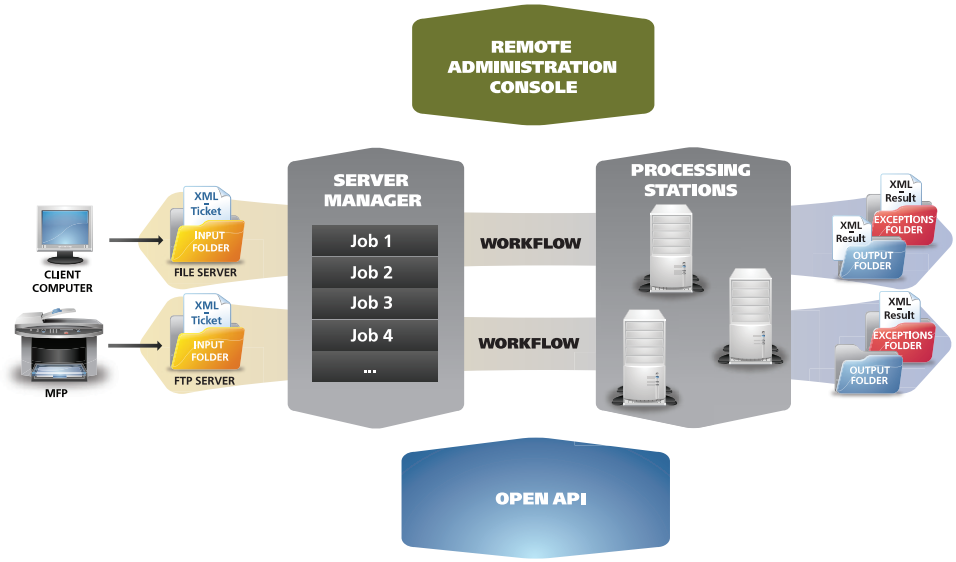
ABBYY Recognition Server is comprised of the following components:

1) **Server Manager**. Manages all requests, processing options, and services and distributes various recognition and conversion jobs among processing stations.

2) **Processing Station**. Performs OCR and document conversion. Receives jobs from the server manager. System easily scales by adding additional processing stations.

3) **Remote administration console.** Based on the Microsoft Management Console (MMC), provides a common administration interface for configuration and monitoring of the system. It can be installed with the server manager, or on a separate workstation.

4) **Open API**. COM-based Open API enables management of Recognition Server functions from within external applications (e.g. ECM systems), linking the product to third party workflows. Can also be used to override processing settings for the purpose of automating and customising jobs. VARs or third party developers can use the API to integrate Recognition Server with their own client applications.



Recognition Server manages tasks via two main elements - **workflows** and **jobs**:

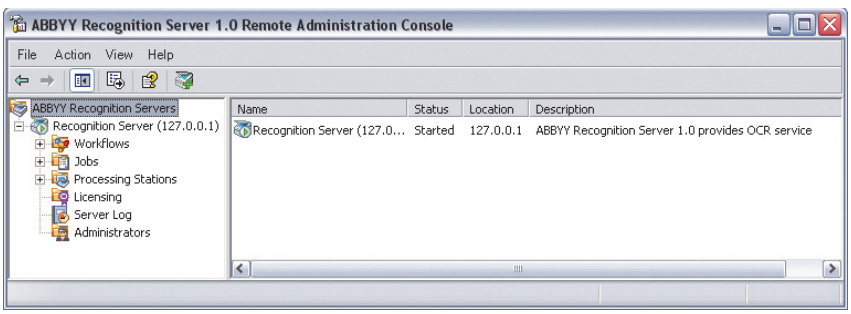
- **Workflow.** The automation of a business process in which information and tasks are passed from one resource to another for action according to a set of procedural rules. Workflow parameters include such items as scheduling, processing criteria (e.g. recognition scenario, language), output formats, and error handling.

- **Jobs.** A unit of processing (e.g. a set of documents and the processing parameters for this set). Jobs can contain one or several documents and inherit the processing parameters of the workflows in which they were created. Jobs are also accompanied by **XML-tickets** to manage parameters which may be used to extend or override the workflow settings.

A Recognition Server administrator defines all Recognition Server parameters via the **remote administration console**.

From this central point, the administrator controls the following functions:

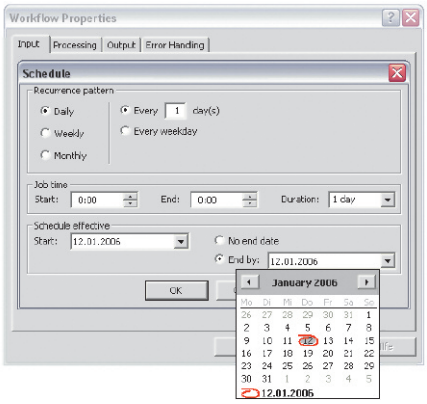
- **Workflow properties**
- **Job management**
- **Processing stations**
- **Server log**
- **Administrators**



Key Functionality

Recognition Server offers powerful recognition and conversion functions which can all be managed centrally. Organisations may control and customise the workflows and OCR processing and monitor the system´s productivity with the following functions:

Input



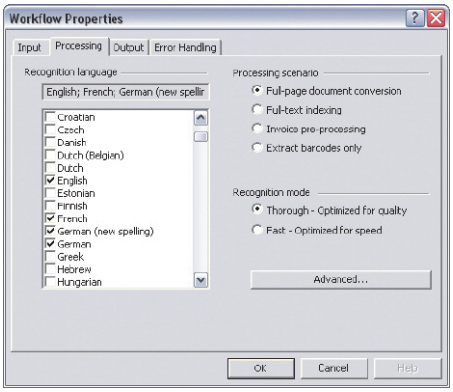
Document Input Folders. Recognition Server offers two options for adding documents to the workflow. Documents can be transferred from a client computer, or direct from a networked scanner or multifunctional device (MFP) to either a **shared folder** or **FTP folder**.

Workflow scheduling and "watch folders." Processing can be performed according to a pre-determined schedule, or "instantly" on certain "watched" folders as soon as new images are added. Options for selecting time, start and end date, and ongoing scheduled tasks such as weekly or monthly so that jobs can be set to run overnight, or during off-peak hours for maximum efficiency.

Workflow priority. Administrators can assign priorities to their processing profile.

Image input formats. Supports popular formats such as BMP, PCX, TIF or PDF* (including image-only PDF).

Processing



Pre-defined processing scenarios

Administrators may select the conversion or recognition method optimised for a specific task:

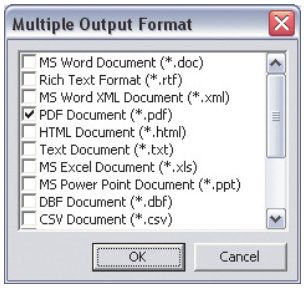
- Full page document conversion (with formatting and layout)
- Full-text indexing
- Invoice pre-processing
- Extract barcodes only

Recognition

- **Print type.** Normal text, typewriter, dot-matrix, OCR-A, OCR-B, and MICR (E13b).
- **Language.** 184 languages and multilingual documents.
- **Special fonts.** Fraktur, Schwabacher and majority of Gothic fonts printed between 1700 and 1937 in English, French, German, Italian, and Spanish*.
- **Barcodes.** Recognises most popular 1D and 2D barcodes at any angle on a document.
- **Speed control.** Options for both thorough and fast mode recognition.

Advanced processing and image pre-processing. Selection of automatic functions such as split dual pages (for book scans), convert colour and grey to black and white, clear background noise, and image deskew and despeckle.

Output



Multiple document output formats. Includes DOC, RTF, XML*, DBF, XLS, HTML, PDF, etc. Can be set up to create multiple document output formats for a single process (e.g. convert image-only PDFs to searchable PDF and XML files in a single pass). Supports searchable PDF files and linearised, tagged,
and secure PDF formats. Supports native PDF encryption – 40-bit and 128 bit AES.

Error Handling

- **Quality control.** Ability to set quality threshold based on confidence level and percentage of uncertain characters per page.
- **Exception folder.** Separates pages with poor results into a unique folder.
- **Job Cancellation.** Set a timeout for automatic cancellation of a job.

** Available as an add-on module*

When To Use ABBYY Recognition Server

Recognition Server´s server-based architecture is well-suited for a variety of applications:

- **Document recognition running as an unattended operation**
  Scheduling functions and "watched folders" enable processing to run simply at the insertion of a document into a file folder, or at night, on weekends, off-peak hours, etc.

- **Distributed scanning with easily managed centralised processing**
  Well-suited for use in a multi-user, multi-location corporate environment. An insurance agent, for example, may have documents scanned at each local office which then submit the documents to the server for central processing.

- **Mid– to high–volume processing**
  Multiple processing queues and easy scalability through addition of multiple processing stations.

- **Business process outsourcing (BPO) applications**
  Ideal for service providers because it is easy to configure settings for a variety of different jobs.

- **Corporate environments requiring centralised processing suited for multiple departments or functions**
  Set up different workflows to accommodate different processing and routing needs based on document types. For example: CVs from an HR department for indexing or contracts from a sales department for conversion to PDF for email attachments.

Pricing and Availability

Recognition Server is sold as a standard licence package with additional add-on functionality. This modular licencing scheme flexibly enables customers to add only the functionality which is required.

A basic Recognition Server licence includes core recognition functionality and support for a variety of export formats including PDF.

Available add-on modules include:

- **PDF opening**
- **FineReader XIX (Fraktur/Black Letter font) recognition**
- **Export to XML**

Pricing is based on a cost per CPU pricing model. Licence contracts run in 1 year time periods and are renewable each year with the purchase of extended software maintenance and upgrade assurance (SMUA) contracts.

System Requirements**

- *PC with Intel® Pentium® or compatible processor with a minimum clock speed of 500 MHz, running operating systems Microsoft® Windows® Server 2003, Windows XP or Windows 2000.*
- *128 MB of RAM, and additional 100MB for each additional recognition process.*
- *350 minimum hard disk space for the installation of server, recognition stations, and program operation.*
- *Administrator account using Recognition Server may require read/write permission to certain registry branches (see manual for details).*

** *System requirements for installing server manager, recognition station and management consoles on separate computers may differ.*

Specifications

Image Input formats:

- *BMP*
- *PCX*
- *JPEG*
- *JPEG 2002 part 1*
- *PNG*
- *TIFF*
- *PDF (up to PDF 1.6)**

Output Formats

- *DOC (Microsoft Word)*
- *RTF*
- *XML (Microsoft and Native)**
- *PDF (version 1.6)*
- *HTML*
- *PPT (Microsoft PowerPoint®)*
- *CSV (comma separated values)*
- *TXT*
- *XLS*
- *DBF*

** Sold as add-on modules*

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