

## ABBYY® FlexiCapture 9.0

### Server



### Server-based, High-Volume Data Capture

ABBYY FlexiCapture Server is a server-based solution for medium to high-volume data capture projects. System integrators and service providers benefit from this powerful FlexiCapture variant which delivers high-volume throughput and a full range of data capture functionalities. Based on a scalable and reliable architecture, it delivers data capture in environments where a server component fits perfectly and where greater flexibility is needed.

### Centralized Data Capture Component

FlexiCapture Server offers intelligent document processing and accurate data extraction from a full range of document types such as hand printed forms, banking documents, invoices or contracts. The server can be integrated into a variety of business applications serving as a centralised component that can be used for data extraction and export into backend applications from any application. FlexiCapture Server can also be connected to various external applications or workflows as an automated document classification and data capture service using its integrated Web Service API.

#### Intelligent document processing

Intelligent capture algorithms enable processing of any kind of business documents from fixed forms to semi- and unstructured documents in a single system.

#### Independent, server-based processing

Recognition, classification and data extraction take place remotely on the server as a background process, working independently and not affecting other tasks. Processing can take place unattended without user interaction.

#### Fast and simple integration

Via its flexible and standardised API a simple integration into business systems can be accomplished. The data capture component can be easily accessed from several different applications, reducing the license and implementation costs.

#### Automated data extraction into backend applications

FlexiCapture Server offers an integrated data capture workflow, that automates data extraction into backend applications. This speeds up the process by which document data gets exported automatically into backend systems.

#### High quality data output

Highly accurate recognition technologies along with rule-based verification and validation methods ensure high quality data output without manual interaction.

#### Multiple language support

FlexiCapture Server offers extended language support for the development of worldwide localised applications. Flexible classification and document separation features reduce document processing errors when working with documents in multiple languages in one system.

#### Scalable architecture

Multi-CPU support and a server-based architecture enable automatic distribution of the workload between processing stations. Enhanced parallel processing capabilities deliver stable scalability for high throughput needs.

#### Fast ROI

Elimination of labour-intensive manual data entry operations guarantees a fast payback of licensing and implementation costs.

### Usage Scenario:

#### Enterprise Level



#### Usage and Scalability



### Key Functionality:

- Intelligent data capture server to process any type of document in a single stream
- Scalable server architecture to ensure high-volume document processing
- Integrated Web-Service API for SOAP access to FlexiCapture Server
- Windows security and advanced user rights management
- Award-winning recognition technologies for OCR, ICR, OMR, 1D and 2D barcodes
- Support for 186 OCR languages including Chinese, Japanese, Korean, Thai, Vietnamese and an additional 113 ICR languages
- XML Export with extracted data and all verification and validation errors for external processing
- Scriptable export for the development of interfaces to any external application and Microsoft® SharePoint Export
- Automated redaction of confidential or sensitive data from fields on scanned documents
- PDF- & PDF/A document export for archiving of document images

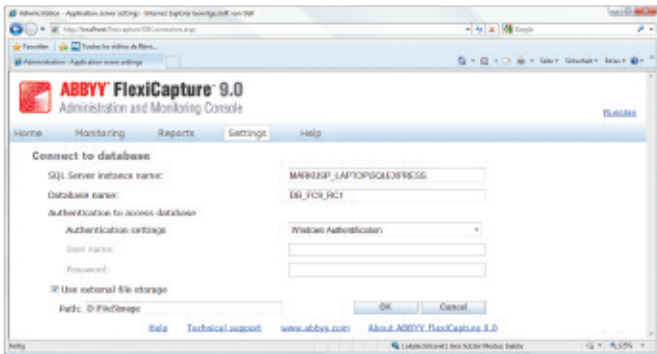
# Functionality Overview



## Setup and Management

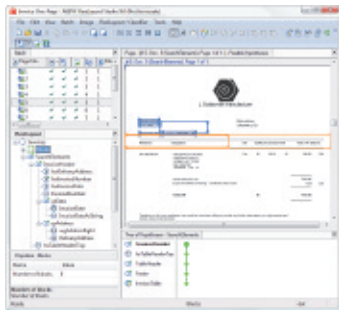
### Administration

System administration and setup are controlled via the Administration and Monitoring console. All system settings including database setup, file storage and user management can be edited via the Web browser.



### Project Setup Station and layout development

FlexiCapture Server include design tools for the creation of machine-readable templates for both fixed form and semi-structured or unstructured documents like invoices or contracts. A Project Setup Station is used for setting up data capture projects. The Administrator sets up workflows, defines batch types, implements automated validation rules and designs export settings for different usage scenarios. The Station also provides effective instruments to test, fine tune and adjusts projects.



### Processing Server and Stations

The Processing Server automatically executes all resource-intensive operations such as import, recognition, classification, data extraction, validation rules execution and export of data and images. The Processing Server has a scalable architecture and distributes tasks among its stations. When adding several stations load balancing helps to boost productivity and enables high-volume throughput.

### Application Server

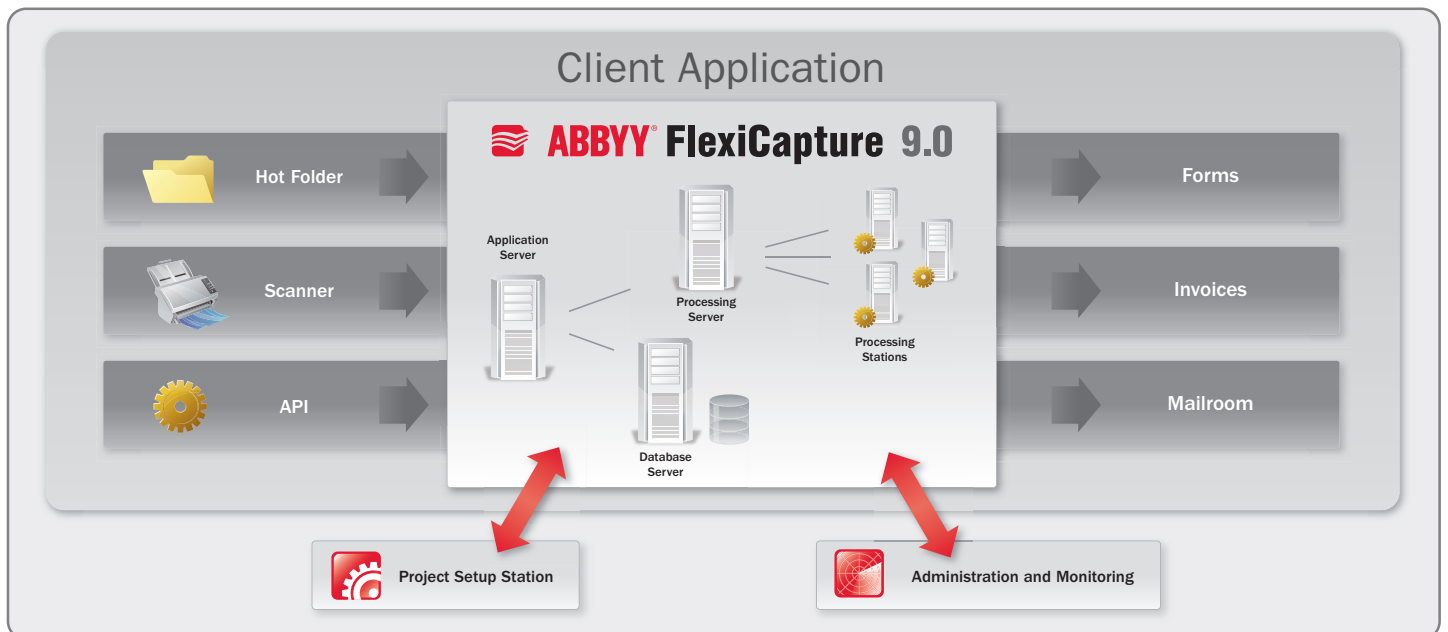
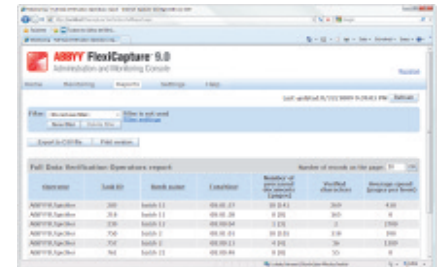
The Application Server handles all processing tasks and queues them automatically according to priority and workflow settings.

### Database Server

A Microsoft SQL Server is needed for processing data storage and keeps all data, all processing stages and all information about users, batches, processing operations, and statistics.

### Monitoring and statistics

The Administration and Monitoring Console can be used for creating reports and generating statistics. The station allows administrators to control and view document batches, queues and status. Reports and statistics can also be exported for further analysis. The Administration and Monitoring Console's Web-based interface makes it easy to access and use.





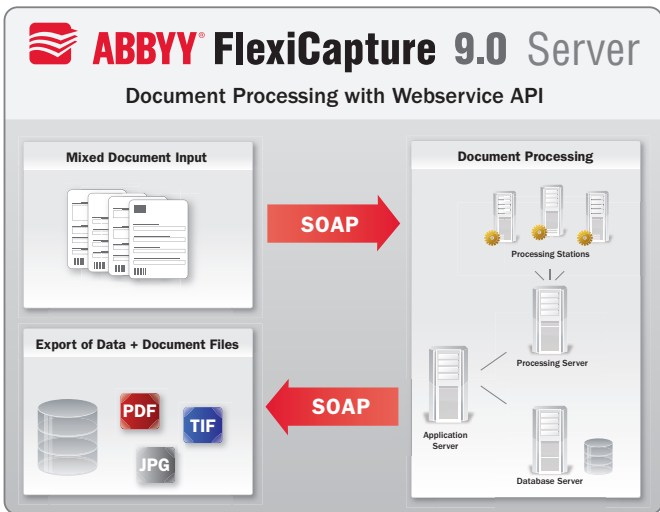
# Functionality Overview

## FlexiCapture Server Integration API

### Web Service API

FlexiCapture Server can be fed from external client applications via a Web Service API. Processing documents using a Web Service API integration can work as the following:

- Step 1** - Load a mix of documents from a folder, scanner or other input devices into a pre-configured project using the SOA protocol.
- Step 2** - Document batches are then processed on the server. Processing can be highly automated depending on the project settings and input files.
- Step 3** - Recognition results are sent back to the external application as XML files and document images. Extracted data can be sent to any backend application for further processing.



## Document Processing

### Document import

Scanning interfaces for TWAIN and ISIS, Hot-Folder import with auto-checking functionality and scan and import profiles automate import processes for optimised document and data input into the application.

### Recognition of OCR, ICR, checkmarks and barcodes

FlexiCapture Server is based on ABBYY's award-winning recognition technologies delivering unprecedented accuracy and stability in several languages for OCR and ICR. 1D and 2D Barcodes and checkmarks can be recognized and powerful image pre-processing functions help to improve recognition quality.

### Automated document separation and indexing

Simple document separation via blank pages and barcodes can be implemented in FlexiCapture Server. Intelligent separation via multi-page document definitions enables processing of different document types in one single stream.

### Automated data validation

Built-in validation rules are automatically applied during recognition to increase accuracy. This guarantees high data quality and reduces the workload for subsequent verification.

### Intelligent technology to process multipage documents with long tables

FlexiCapture is able to process all kinds of forms and business documents like invoices, price lists or contracts. With FlexiCapture businesses get a unique technology to easily process multiple page documents with long tables that stretch over more than one page.

### Built-in document classification

Built in multi-level classifiers speed up the document template matching, allowing for automatic classification of various document types (e.g. contract vs. invoice).

### Scriptable export

Scriptable export gives developers the ability to create custom export modules that deliver data and/or document images directly to any external application such as ECM, CRM, or ERP systems.

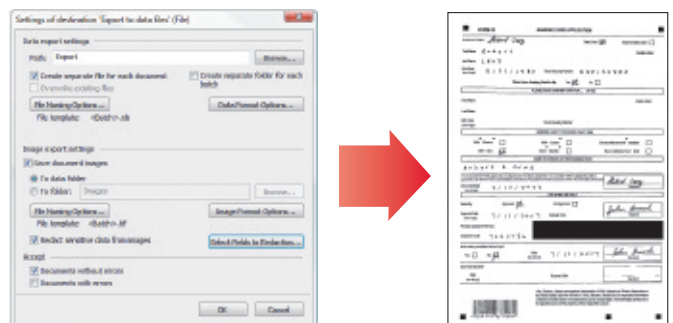
### Data export

Data can be exported to backend applications, databases or can be stored in enterprise repositories. Powerful export features include automated export to multiple destinations according to batch or document type. FlexiCapture Server supports the following export destinations:

- Files (most common file formats supported)
- XML (Basic and advanced XML export)
- External databases (via ODBC)
- Microsoft SharePoint
- ERP, DMS, CMS and other business applications through custom modules or scriptable export

### Document export and redaction

Document images can be prepared for archiving when converting them to searchable PDF/PDF-A. To remove confidential or sensitive data from certain fields, FlexiCapture Server offers redaction. Unrecognised images can be exported to a separate folder for special processing.



# Specifications and Licensing

## Specifications

### System requirements

- **PC:** Intel® Core™2/2 Quad/Pentium® /Celeron® /Xeon™, AMD 6/ Turion™/Athlon™/Duron™/Sempron™ processor or compatible with a minimum clock speed of 2 GHz
- **Operating systems:**
  - For Servers:** Windows Server 2003 SP2 x86, Windows Server 2008 x86 + Hotfix for Windows (KB959489)
  - For stations:** Microsoft® Windows® XP SP2 x86, Windows Vista® SP1 x86 + Hotfix for Windows (KB959489), Windows Server® 2003
- **Memory:** 1 GB for every CPU core

### Required external components

- Microsoft .Net Framework 2.0 or higher
- Internet Information Services version 5.1, 6 or 7
- Crystal Reports Basic Runtime for Visual Studio 2008
- Microsoft SQL Server 2005 or 2008
- Web Browsers: Internet Explorer 6, 7, 8; Firefox 3.5; Opera 8, 9.5

### Input formats

BMP, PCX, JPEG, JPEG 2000, PNG, TIFF, DjVu, DCX, PDFs (including PDF/A)

### Recognition languages

Please check [www.ABBYY.com](http://www.ABBYY.com) for a full language list.

- **OCR:** 186 languages, 42 with dictionary support
- **ICR:** 113 languages
- **OMR:** Checkboxes, non-framed checkboxes, bubbles
- **Barcodes:** 1D-Barcodes including EAN, Check, IATA, UCC and UPC and 2D Barcodes including PDF417, AZTEC and Data Matrix

### Data export formats

- XLS, DBF, CSV, TXT, CSV
- Basic and advanced XML export
- Database export via ODBC
- Export to Microsoft Sharepoint
- Export to backend applications via custom modules

### Image export/saving format:

- BMP, PCX, PNG, JPEG, JPEG 2000, TIFF and DCX
- Export for archiving to searchable PDF and PDF/A

## ABBYY FlexiCapture 9.0 Licensing

ABBYY FlexiCapture is sold through ABBYY FlexiCapture certified value-added resellers, system integrators and to service providers. The product's flexible licensing scheme allows partners to select the best pricing option for their specific project. Licensing is offered as:

### Total page count licenses (TPC)

FlexiCapture Server is delivered via a total page count licensing model. TPC describes the amount of pages which can be processed in total. Processing power is not limited when licensing FlexiCapture Server on a TPC license scheme.

### Page-unlimited (CPU licenses)

FlexiCapture Server is also available via a CPU-based license scheme. The number of documents and number of pages is restricted by the number of licensed CPU cores – this scheme is ideal for a ongoing data capture backend system.

### Add-on modules

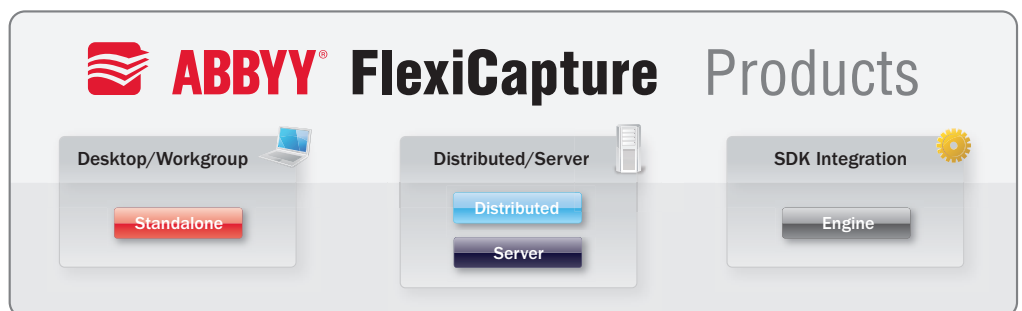
Functionality can be enhanced by adding PDF export or language support for Chinese, Japanese, Korean, Thai, and Vietnamese. Additionally, modules for data export to industry-leading backend applications are available as Add-ons.

### Support, maintenance and upgrade assurance (SMUA)

FlexiCapture Server CPU licenses automatically include a one year subscription for support, maintenance and upgrade assurance. Additional SMUA can be added to the license on request for a FlexiCapture Server TPC License scheme,

## ABBYY Data Capture Products

ABBYY Data Capture products come in different variants to serve different needs: from workgroup based solutions for departments, client-server based solutions for distributed data capture in medium-sized enterprises to software development kits (SDK) for integration in custom-built applications.



## ABBYY Professional Services

ABBYY offers professional services to help partners jump-start projects or provide additional expertise and support for your teams. Services include creation of FlexiCapture document definitions (templates) and FlexiLayout development.

## ABBYY FlexiCapture Certification and Training

To ensure the success of your projects, ABBYY offers additional support, training, and certification programs on FlexiCapture Technology. ABBYY trainings are offered regularly, please see [www.ABBYY.com](http://www.ABBYY.com) for training schedules.



Avanquest UK Ltd  
Sheridan House, 40-43 Jewry Street,  
Winchester, Hants SO23 8RY  
Phone: 01962 835000 Fax: 01962 835100  
Email: [sales@processflows.co.uk](mailto:sales@processflows.co.uk)  
Web: [www.processflows.co.uk](http://www.processflows.co.uk)