

ABBYY® FlexiCapture 9.0 Distributed



What is ABBYY FlexiCapture 9.0 Distributed?

ABBYY FlexiCapture Distributed is a scalable data capture solution for medium-sized organisations. Based on a client-server architecture, data capture systems in a network scenario can be implemented. FlexiCapture Distributed provides intelligent and accurate data extraction from a full range of document types such as hand printed forms, banking documents, invoices or contracts. With this powerful, reliable and scalable solution, organisations can streamline their business processes, increase responsiveness and keep up with today's requirements of ever-increasing transaction speeds.

Moving Paper at the Speed of Business

ABBYY FlexiCapture Distributed automates the process of inputting paper information into enterprise backend systems. Wherever businesses deal with documents and wherever those documents drive transactions, organisations will benefit from automating processes through reduced operating costs, increased productivity, improved data quality and compliance. FlexiCapture Distributed is a scalable solution for medium to high document processing volumes and offers a full-range of functionalities for document classification, separation, data extraction and indexing.

Single solution for processing all types of documents

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

Highly automated distributed data capture

Automated data extraction for highly time efficient data capture at lower costs due to significant reduction of manual interaction. Reduction of manual processing steps speeds up data capture to make business-critical data available in a short timeframe.

Ready for international business

One solution to process documents in several different languages for faster input into backend applications.

High quality data output

Highly accurate recognition technologies along with rule-based automated verification methods ensure optimised and validated data output.

Scalable solution for high volume processing

Multi-CPU support, a client-server architecture and enhanced parallel processing guarantees higher scalability for higher throughput needs and better distribution among networks.

Better competitiveness

Fast data extraction, higher data quality and better productivity increase responsiveness of an enterprise helping to gear their competitiveness.

Cost savings

Streamlining of business processes and reduction of operational costs for manual indexing, document separation and data extraction.

Fast ROI

Elimination of labour-intensive operations guarantees a fast payback on licensing and implementation costs.

Usage Scenario:

Enterprise Level



Usage and Scalability



Key Functionality:

- Intelligent data capture solution to process any kind of document in one single application
- Scalable client-server architecture to ensure high-performance document processing
- Remote operations for distribution of data capture to boost productivity
- Flexible workflows with automatic document routing to the correct queues
- 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 and Vietnamese and 113 ICR languages
- Integrated monitoring for statistics and report generation
- Automated data export and export to multiple destinations
- Export via custom modules and scripting to any external application and Microsoft® SharePoint Export
- PDF- & PDF/A document export for archiving

Functionality Overview



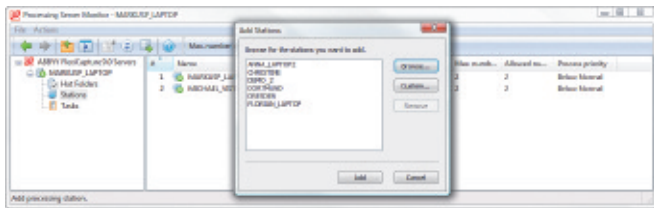
Working with FlexiCapture Distributed

ABBYY FlexiCapture Distributed delivers high performance data capture functionality via a scalable, client-server architecture designed to support high-volume processing in a distributed network environment. It includes a set of dedicated server components for data processing – with workload balancing to ensure maximum productivity – and multiple client operator stations for each step in the data capture process: setup, administration, scanning, verification and monitoring. Additionally, organisations benefit from a unique solution that combines state-of-the-art technologies for distributed data capture with an easy-to-learn and use interface for manual verification and document template development.

Distributed Server Components

Processing Server and Processing Stations

Automatically executes all resource-intensive operations such as image 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 Processing stations. When adding several stations load balancing helps to boost productivity and enables high-volume throughput.



Database Server

A Microsoft SQL Server keeps all data and processing stages and stores all information about users, batches, processing operations, and statistics.

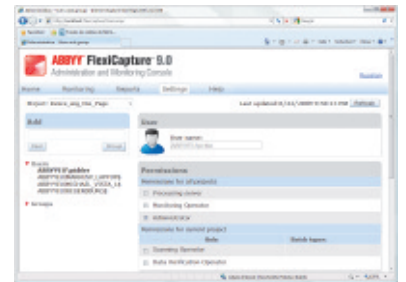
Application Server

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

Administration and Setup Tools

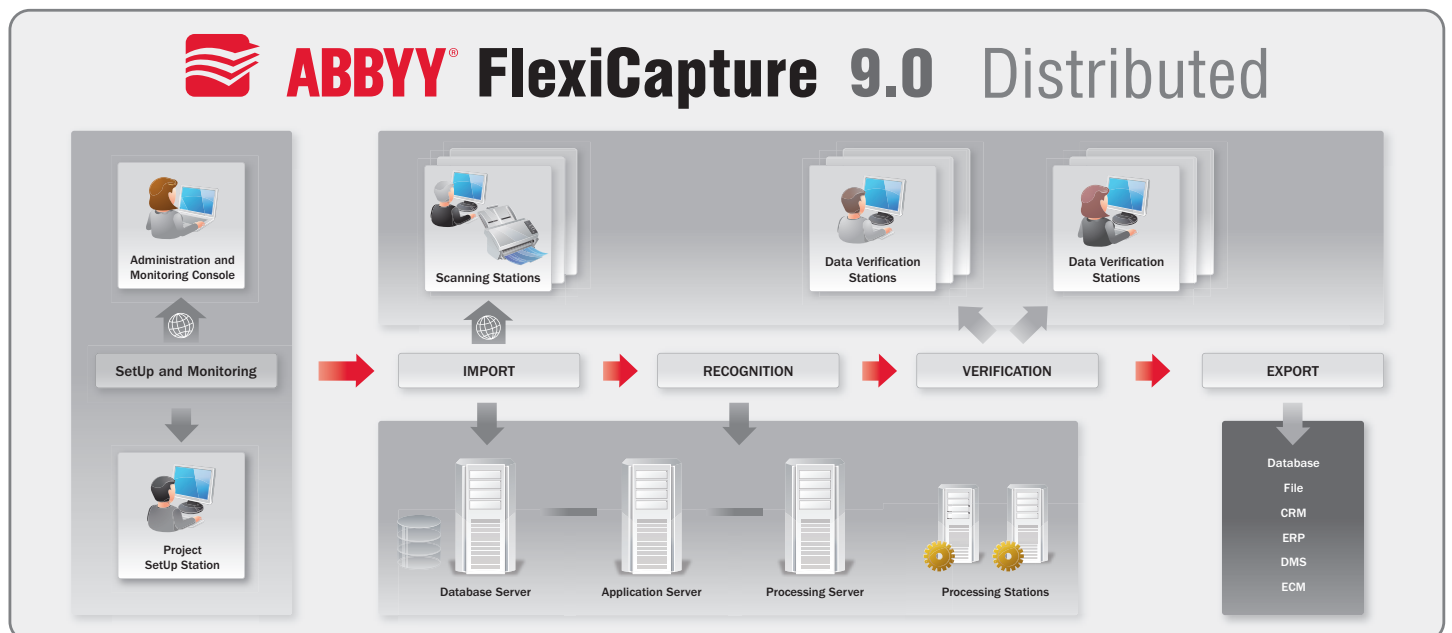
Administration and monitoring

Administrators and Operators can manage processing and track statistics using the easy-to-use Administration and Monitoring Console. Administrators use the console to manage user rights, system administration and setup. Operators can track jobs or generate statistics, control and view document batches, queues, and their status.



Layout development and project setup

FlexiCapture comes with a range of tools for layout development. ABBYY Document Definition Editor is used for creation of machine-readable fixed form templates – so called Document Definitions – for paper forms such as questionnaires. With ABBYY FlexiLayout Studio FlexiLayouts for semi-structured and unstructured documents like invoices or contracts can be developed. Data capture projects are set-up with the ABBYY Project Setup Station which also provides effective and convenient instruments to test, fine tune and adjust projects quickly and easily.





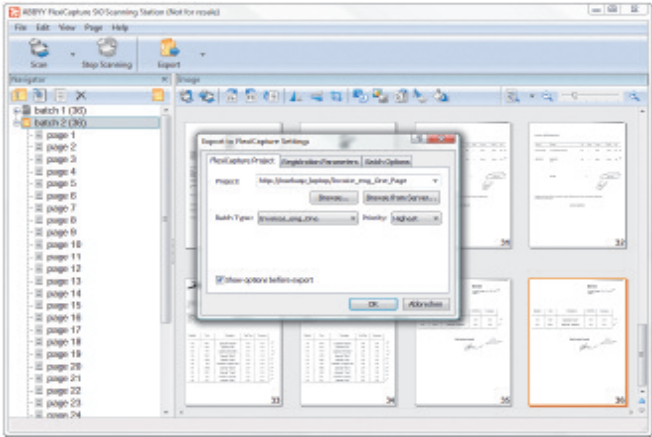
Functionality Overview

Document Processing with FlexiCapture

ABBYY FlexiCapture Distributed offers a full range of functionality for document classification, data extraction and indexing. Organisations can select and deploy user-attended client operator stations for scanning, data verification and document verification. Flexible workflows and batch type management make it easy to manage the processing and verification steps and configure the level of automatic or manual intervention desired. Workflows can be set up to automatically match and route projects to the appropriate workstations for manual verification or can be designed for automated, rule-based verification.

Scanning and image import (Scanning Station)

Batch scanning of large amounts of documents, management of scanners, quality control and preparation of images for subsequent processing can be handled by the Scanning Station. Organisations may use 3rd-party scanning applications, as FlexiCapture supports Hot-Folders to automate import.



OCR, ICR, checkmark and barcode recognition

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

Automated data validation

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

Document separation, indexing and classification

Simple document separation via blank pages and barcodes can be implemented in FlexiCapture Distributed. Intelligent separation via multipage document definitions enables processing of different document types in a single stream. Built in multi-level classifiers speed-up the document template matching process.

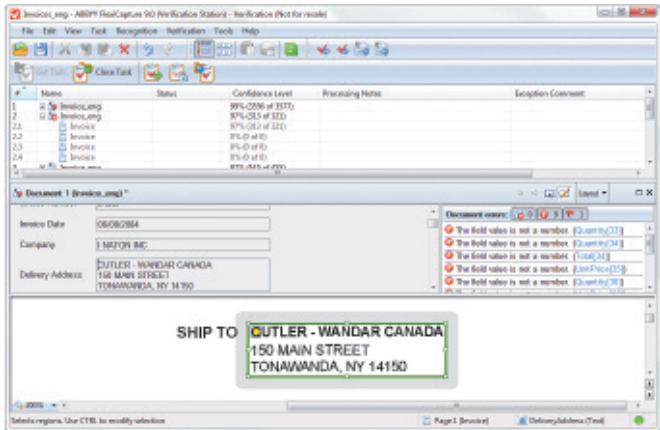
Data verification (Data Verification Station)

Data verification operators execute low-level verification tasks to see if extracted data can be matched with original document data. Verification can be carried out on group and field-level for the correction of form errors. Documents can be sent to an exception queue if data extraction is completely inaccurate.

Document level verification (Verification Station)

Complex document errors can be manually checked using the verification station. Master verification operators can check for assembly errors, in document composition and rules validation for data correctness. They can also manually re-assemble documents containing classification and assembling errors. An intuitive "drag-and-drop" interface simplifies this process.

Faulty documents can also be re-sent to the Data Verification Station for re-verification. The document window allows a full-scale image view for document verification.



Data export

Data can be exported to backend applications, databases or can be stored in enterprise repositories. Powerful export features include automated export and export to multiple destinations. FlexiCapture Distributed 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, connectors or scriptable export

Archiving and redaction

Document images can be prepared for archiving when converting them to Searchable PDF/PDF-A. Redaction allows removing confidential or sensitive data from certain fields.

