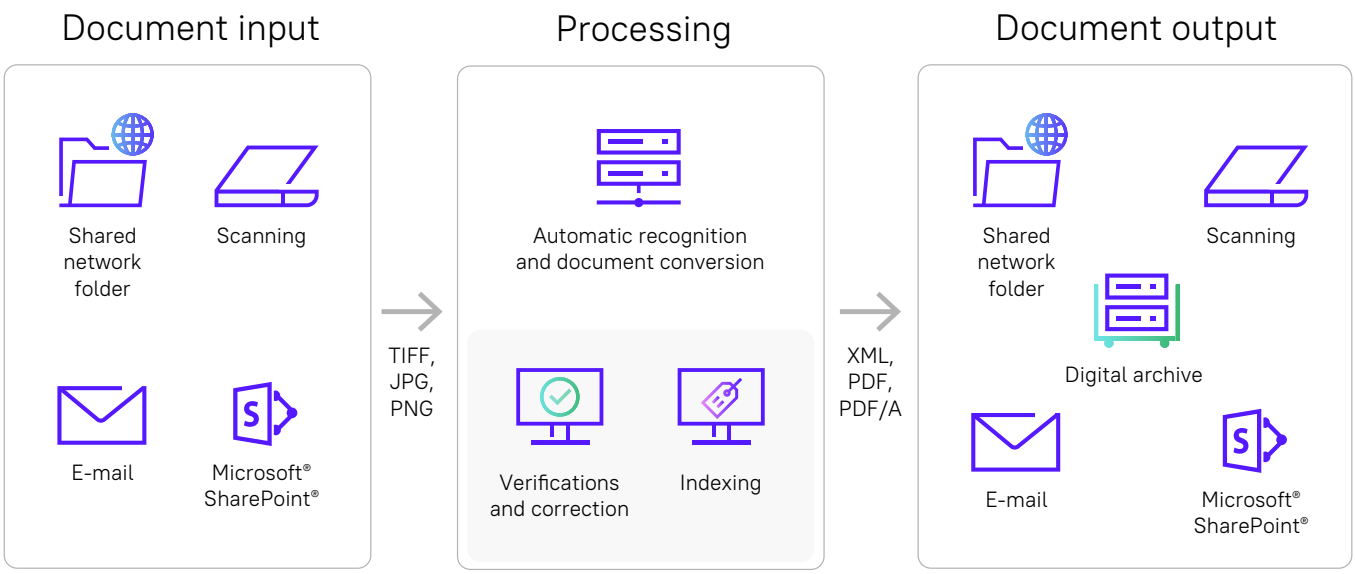
ABBYY

ABBYY® FineReader® Server

Converting documents into accessible, searchable, sharable formats—such as PDF, DOCX, and XML—lets you store information electronically across your IT system, enabling greater efficiency through faster information retrieval.

Designed for high-volume document conversion, ABBYY FineReader Server automatically converts large collections of documents into searchable and accessible digital repositories. This server-based OCR and PDF conversion offering converts scanned and electronic documents into PDF, PDF/A, Microsoft Word, or other formats for search, long-term retention, collaboration, or additional processing—quickly, accurately, and automatically.



ABBYY FineReader Server receives document images from shared network folders, scanners, e-mails, and Microsoft® SharePoint® and automatically converts them into searchable digital formats using optical character recognition (OCR) technology. If needed, the user can manually correct text information and/or add metadata to the document. The resulting digitized files can be saved to any number of storage areas and/or delivered to other applications.

Deployment models suitable for any infrastructure, any needs

ABBYY FineReader Server converts documents automatically, with minimum user intervention. It runs in the background and performs all document processing steps independently—around the clock or at pre-defined times.

Standardize your content
Transform collections of documents into standardized, well-organized digital libraries.

Realize rapid ROI
FineReader Server is fast to deploy and easy to maintain, so you can start seeing bottom-line results faster.

Schedule processing
Enable conversions as needed around the clock or schedule batch processing to optimize use of hardware resources.

Empower non-technical business users
FineReader Server requires no special training or previous knowledge to start conversion processes.

Streamline document handling
Create digital documents that can be easily stored, quickly distributed to specialized systems, or shared among teams.

Make content accessible, searchable
Business users can quickly search digital archives for documents containing relevant keywords.

Key features

AI-powered OCR
Delivers fast, accurate results in over 200 languages (including European, Arabic, CJK, etc.)

Server-based architecture
Uses all available hardware resources in the most efficient way possible

High-volume scalability
Converts large volumes of documents in a short time frame

Flexible PDF technology
Compresses PDFs to minimize file size while preserving quality; supports PDF/A (-1a, -1b, -2a, -2b, -2u, -3a, -3b, -3u), PDF/E, PDF/UA formats; supports digital signatures, watermarking, and metadata removing

Wide range of supported formats
Automatically converts from PDF, JPEG, TIFF, Word, Excel, OpenDocument Text, PowerPoint, HTML, and other formats

Integration with SharePoint
Automatically converts documents from SharePoint libraries into searchable PDFs

Barcode recognition
Detects with help of AI and reads 1D and 2D barcodes to enable document separation and/or addition of metadata

Document types and metadata
Auto-assigns document types and attributions; allows for manual creation of metadata if needed

Recognition of historical fonts
Supports black letter, Schwabacher, and most other Gothic fonts in English, German, French, Italian, and Spanish

Integration into existing systems
Connects easily with digital archives or enterprise content management systems via XML tickets, COM-based APIs, and web service APIs, including REST API

Document separation
Automatically separates documents based on number of pages, blank pages, barcode pages, and/or scripted rules

Audit report
Analyze repositories to identify file types and the number of searchable, unsearchable documents. There is also a possibility to identify duplicated, large and outdated files

How it works

1 Document input

FineReader Server receives document inputs from scanners, shared network folders, emails, and Microsoft SharePoint.

Scanning

FineReader Server offers an easy-to-use Scanning Station interface that supports scanning of batched documents. Onboard quality improvement tools include image preview and enhancement, manual redaction, and others. Users can leverage scripting commands, for example, to auto-split large pages or re-order pages after duplex scanning.

Document import

FineReader Server can automatically retrieve previously scanned images from document libraries and files sent as e-mail attachments. Imported document images will be processed with corresponding priorities and according to available computing resources.

- Scanning via TWAIN, WIA, ISIS
- Integrates with all network scanners and MFPs
- Hot folder watching (FTP or local network)
- Automatically processes files arriving in defined folders
- Crawling of network shares and SharePoint libraries
- Detects newly added files and converts into searchable formats
- Input via e-mail (Microsoft Exchange, POP3, IMAP)
- Integrates with fax and e-mail servers and processes image attachments

Multiple input formats:

Image files

- TIFF / Multipage TIFF
- Compression methods: Uncompressed, CCITT3, CCITT3FAX, CCITT4, PackBits, JPEG, ZIP, LZW (8/24bits)
- JPEG,JPEG2000
- JBIG2
- BMP
- GIF
- PNG
- WDP
- XPS
- PCX,DCX

Office documents

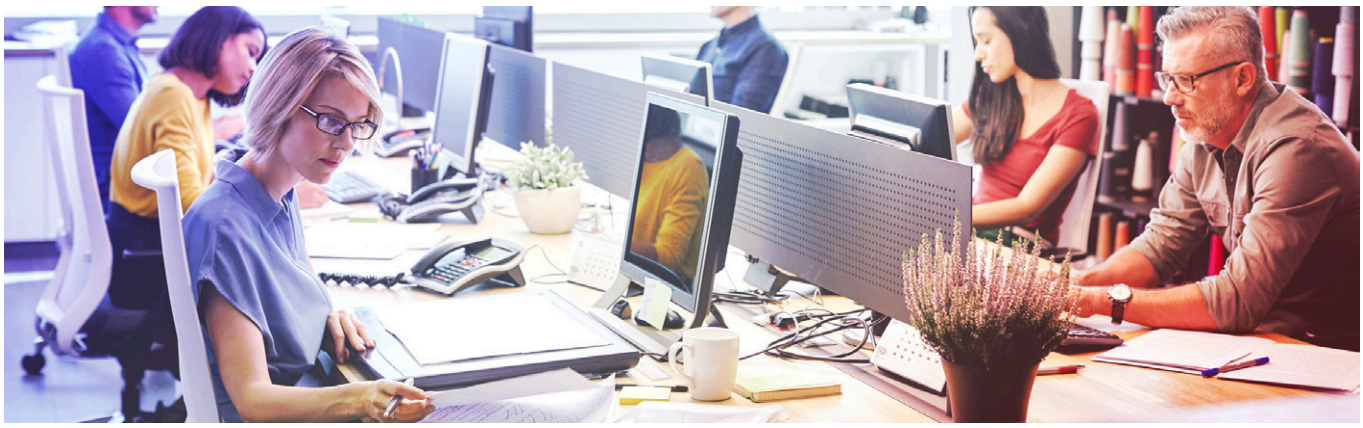
- PDF
- DjVu
- DOC,DOCX,ODT
- XLS, XLSX, ODS
- PPT,PPTX,ODP
- TXT,HTML,HTM,RTF

Emails

- Mail servers supported protocols: IMAP, MAPI, POP3, like MS Exchange, Google® Mail, IBM® Domino, etc
- Mail message files stored in file system, like MSG and EML files

Customization

Ability to create plugins for expanding list of supported formats, e.g. convert CAD file to PDF with help of Autocad® or other software



2 Document processing

FineReader Server processes document images via automatic recognition and document conversion, with optional verification and indexing capabilities.

Document recognition/OCR

FineReader Server's OCR process runs automatically on a dedicated workstation, the Processing Station. Using ABBYY's highly accurate OCR technology, FineReader Server supports a broad range of functions to increase recognition accuracy, including

- Image pre-processing (for example, splitting dual pages for book scans or clearing background noise)
- Print type definition (normal text, typewriter, dot-matrix, OCR-A, OCR-B, MICR E13b, and Gothic)
- Language definition (auto-recognition of more than 200 languages and historic texts in old fonts)
- Possibility to skip duplicated, large, and outdated files

Depending on the document's quality and structure, processing mode can be set on either "precision" or "speed." To increase processing speed significantly—for example, to process many documents within a tight time frame—additional Processing Stations or a greater number of CPU cores can be added.

FineReader Server's scheduled processing feature enables it to process different kinds of documents at different times according to a predefined schedule.

Verification (optional)

In some cases—for example, when digitizing books—recognition results must be verified. FineReader Server's integrated Verification Station interface offers the option of correcting results, either on all documents or only on documents that did not reach a pre-defined recognition accuracy threshold.

Indexing (optional)

If required, document indexing can be done either manually—using the Indexing Station interface—or automatically using a script. Lists of index field values can be imported and synchronized with third-party systems.

3 Document assembly and export

FineReader Server assembles processed pages into individual documents. Documents can be separated three different ways:

- Using blank sheets or barcode pages as separators
- According to a fixed number of pages per document
- According to a scripted rule

Assembled documents in the required formats are delivered to pre-defined output locations—such as network folders, SharePoint document libraries, and e-mail addresses—or passed to other applications connected via API.

Scripts can also be applied for intelligent routing and delivery of documents to enterprise content management systems based on document properties. FineReader Server supports a variety of output formats and enables creation of several output files at the same time.

FineReader Server can crawl individual libraries, detect non-searchable image-based documents, and convert them into searchable formats. Documents such as Microsoft Word files, PowerPoint® presentations, or Excel® spreadsheets, which require no processing, can be moved into the output library to the same position.

Multiple output formats:

Image files

- PDF, PDF/A-1a, PDF/A-1b, PDF/-2a, PDF/A-2b, PDF/A-2u, PDF/-3a, PDF/A-3b, PDF/A-3u, PDF/E, PDF/UA
- RTF
- DOC, DOCX
- XLS, XLSX
- TXT, CSV
- HTML
- TIFF
- JPEG, JPEG 2000
- PNG
- EPUB
- XML
- Alto XML
- FineReader internal format (FineReader Engine-compatible)
- JSON

To find out more about ABBYY FineReader Server, please visit www.abbyy.com/finereader-server