ABBYY

ABBYY®
FlexiCapture® SDK

Power your document applications
with Content Intelligence

What is FlexiCapture SDK?

ABBYY FlexiCapture is the most comprehensive, robust, and technologically advanced platform enabling customers to automatically identify, transform, and leverage process-ready content locked within documents. Through the use of machine learning, customers are able to process more transactions, faster and with fewer errors, improving customer service, reducing costs, and making smarter process decisions.

ABBYY FlexiCapture SDK is a software developer kit that enables system integrators, RPA vendors, and service providers to integrate FlexiCapture's powerful data capture capabilities into their solutions.

Placing powerful data capture features in developers' hands

FlexiCapture SDK provides developers with a powerful, flexible toolkit to smoothly integrate ABBYY's industry-leading data capture technologies to empower their own products and services according to vertical market needs.

High-quality data output

Featuring award-winning OCR technologies and advanced classification, as well as offering built-in autolearning based on machine learning technology, FlexiCapture SDK ensures exceptional data accuracy

Comprehensive document processing

To achieve high efficiency, FlexiCapture SDK provides a complete set of technologies and tools for streamlined processing of structured and unstructured forms and documents, including data verification, advanced document classification, auto learning, and export for backend processing and archiving.

Tight integration with applications

FlexiCapture SDK enables developers to integrate data capture seamlessly into their applications and to maintain full control over document processing, extracted data, and document routing

Program in familiar environments

The FlexiCapture SDK API conforms to the COM standard and can be easily used in C/C++, C#, Python, or any other development tools supporting COM components. Additionally, SDK supports programming in Java.

Integration in custom applications and processing

FlexiCapture SDK has an easy-to-use API. The following steps demonstrate how your application can be extended with data capture functionalities:

1 Integration

Integrate FlexiCapture SDK libraries into your application, workflow, or business system.

2 Project selection

Load a preconfigured FlexiCapture Project that describes the logic of data extraction, or create and set up a new one via the FlexiCapture SDK API.

3 Document processing

Load the image or digital documents and PDFs you wish to process. Document separation, classification, and recognition are executed automatically according to the pre-defined logic.

4 Verification

The API of FlexiCapture SDK provides access to the internal classification, field extraction, and recognition results.

5 Learning by feedback

User feedback from verification of field extraction and classification , and classification may be used to improve the accuracy of the technology.

6 Data and document handling

Extracted data can be processed in your application, sent to other applications, or exported into XLS, DBF, CSV, TXT, or XML. Separated documents can be exported as image files as well as searchable PDFs or PDF/A files.

Functionality overview

Data capture for all document types

ABBYY FlexiCapture SDK provides tools for extracting data from fixed forms and from semi-structured and unstructured documents. All required data can be quickly located and extracted in an appropriate format.

Advanced document classification

Built-in document classification allows developers to create the classifier from scratch, train the classifier based on verification results, and implement auto-learning to improve classification accuracy results.

Out-of-the-box invoice, PO, and receipt processing

FlexiCapture SDK provides ready-to-implement Projects for invoice, PO, and receipt processing. Main fields are extracted out of the box, without the need for any additional configuration.

Learning by feedback

FlexiCapture SDK allows developers to implement training for field extraction and classification processes. Based on feedback provided by the end user, this technology dramatically improves accuracy of field extraction and classification.

API-based setup

The FlexiCapture SDK API allows developers to set up processing from scratch or fine-tune an existing one without using visual tools. For instance, they can create a project and document definitions, then use them to process documents and train the system—or, they can build their own tools for administration of FlexiCapture Projects.

Code sample library

A comprehensive set of code samples explains how to program using the SDK. Each library section has code snippets accompanied by step-by-step instructions on how to perform the corresponding task. Developers can also reuse the sample code in their programs.

ABBYY licensing policy

ABBYY FlexiCapture SDK licensing is offered as follows:

Development license	Runtime licenses
Allows the integration of ABBYY FlexiCapture SDK into developers' own applications and functionality testing. The license also includes the Developer's Package with the FlexiLayout Studio tool. These tools allow the design of templates for processing standardized forms and documents with various layouts.	Allow the distribution of applications that include FlexiCapture SDK functionalities. Runtime licenses differ in the number of pages that can be processed.

Software maintenance, training, and professional services

To ensure the success of your products, ABBYY offers additional support, training, and education programs for all its products. If you would like professional support or consulting, please contact us.

Specifications

System requirements

- PC with x86-compatible processor (1 GHz or higher)

- Operating system: Windows Server 2016, 2012, 2008 R2; Windows 10, 8.1

- Memory: For processing one-page documents: Minimum 400 MB RAM, recommended 1 GB RAM; for processing multi-page documents: Minimum 1 GB RAM, recommended 1.5 GB RAM

Cloud platforms

Microsoft Azure:

- Azure Service Fabric

- Azure Virtual Machines

Amazon EC2

Formats

Input: PDF, BMP, DCX, PCX, PNG, JPEG 2000, JPEG, TIFF, GIF, DjVu, JBIG2, WDP

Output: XLS, DBF, CSV, TXT, XML

Development

The ABBYY FlexiCapture SDK application programming interface conforms to the COM standard and can be easily used in C/C++, Visual Basic, .NET, or any development tool supporting COM components. ABBYY FlexiCapture can be adapted for use in scripting languages like VBS, JS, and Perl.