ABBYY®

ABBYY® FlexiCapture Engine 10
What's New

ABBYY FlexiCapture Engine 10 is the newest version of ABBYY's Data Capture SDK, designed to power a new generation of business applications. Its new and enhanced features offer the fastest way for developers to integrate sophisticated data and document capture technologies into server, desktop, mobile and cloud solutions. A highlight of key new features includes:

- New Auto-Learning Technology
- New Auto-Classification Technology
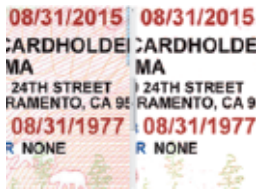- Enhanced Image Pre-processing
- Adjusted Licensing Scheme

New Technical Features and Improvements

Auto-Classification Technology and Auto-Learning

ABBYY FlexiCapture Engine 10 makes it easy to start working with sophisticated classification and capture technology. Now you can train document classifiers and create simple document layout descriptions in just minutes.

Feature	Description	Benefits
Automatic Document Classification	The new classification technology can be set up via FlexiLayout Studio or via API. You may also train classifiers using the Auto-Learning Technology tool: • Start training the classifier and define different types for the same document class. • Test and optimise the classifier with a batch of sample documents, the type will automatically be detected. If the type was not detected correctly, you are able to manually adjust/train that. • Once the setup and training steps are complete, the classification sub-system is ready. • **Automatic Classification technology uses image-based and content-based classifiers**. For more details, please read the Developer's Help documentation.	In the image-based classification mode the system can quickly process similar looking documents, such as forms or invoices from the same vendor which allows the system to achieve faster data extraction. The new content-based approach helps classify and process unstructured documents with varying layouts within the same document type, e.g. reclamations and "normal" letters.
Automatic Learning Technology	The new Auto-Learning API allows developers to create a simple point-and- click user interface, so they can extend applications and automatically create data extraction rules. The application will "learn" how to extract data from simple, one page documents, without the need to use FlexiLayout Studio.	The unique combination of automatic and manual access to capture technology achieves the required accuracy in a shorter period of time.

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Enhanced Core Technology

Feature	Description	Benefits
New Binarisation	New binarisation technology provides better text retention and prevents information loss, even in difficult cases.	Enhanced binarisation quality and retention of valuable information for better OCR accuracy
New features of Camera OCR™	Designed to enhance text recognition and data extraction from documents captured using digital cameras. The new set of document photo adjustment features includes: ・ Remove noise from colour photos. ・ Remove motion blur from photos. ・ Remove geometrical distortions from an image.	Camera-based document acquisition enables new and emerging applications such as mobile capture and remote capture with server-based processing.
New Image Pre-processing Features	・ Remove security paper guilloche background or suppress colour objects in official documents. ・ Remove garbage from an image. ・ Smooth images textures. ・ Create different filters based on frequency domain transformation of an image to extract maximum information from difficult to read documents.	Better recognition results on difficult images, for example the guilloche background of an ID card
New Pre-Recognition Modes: Fast, Balanced, Thorough	Pre-recognition is an initial full-page recognition step that precedes field-level extraction. For good quality images pre-recognition can be run in "**Fast**" **mode** for better performance. For poor quality images the "**Thorough**" **mode** lowers the recognition speed in order to achieve more accurate results.	Easily achieve the highest quality results, as quickly as possible.

Development Improvements

Feature	Description	Benefits
Recognition Variants	FlexiCapture Engine 10 introduces a native API to access to different OCR hypotheses for character and word recognition.	The information can be used in external voting algorithms so that data accuracy can be improved without manual verification.
Java Wrapper	FlexiCapture Engine 10 includes a new Java Native Interface (JNI).	Version 10 makes it easier for developers /enterprises to extend their JAVA applications (on Windows) with data capture functionalities.
New Code Samples	**Automatic Template Generation Sample** allows developers to create a simple FlexiLayout or Document Definition via API. **Image Pre-processing Sample** allows developers to test how image pre-processing affects recognition quality, for example: page orientation and skew correction, colour filters photo pre-processing	GUI source sample for your applications shortens the learning curve. Easy testing of the image pre-processing capabilities without writing any test-code.

New Licensing Options

Feature	Description	Benefits
Adjusted Licensing Scheme	FlexiCapture Engine Runtimes are now delivered as network licences. The licensed page volume or the licensed number of CPU Cores can be rolled out in the LAN.	Daily peak volume can easily be distributed within a network. Virtual machines running on blade servers can easily be used for up scaling.
	ABBYY Europe changed the time period for the page counter from "pages per month" to "pages per year". The volumes were adjusted to align with ABBYYs FlexiCapture Server's licensing.	The new default delivery of the page volume makes it easier to deal with peak volumes.
	FineReader Engine 10 API is now included*. FlexiCapture Engine 10 allows to apply FlexiLayouts for separation and data extraction, and additionally to call the regular layout analysis provided by FineReader Engine, including all export formats, like text only, Office formats or Full page XML.	The new licensing scheme is perfectly suited for existing FineReader Engine developers who want to extend their existing applications with intelligent separation and data extraction features.

* included in the new licensing model from ABBYY Europe; it is still an add-on in other ABBYY sales territories.

Additional Information

· The update for FlexiCapture Engine 10 is free for customers who have purchased a SMUA (Software Maintenance and Upgrade Assurance) together with Version 9.0 of their Development Kit and Runtime Licences. SMUA is available for an annual fee of 20 % of the purchase price.

· Customers who have licensed an older version of an ABBYY SDK should contact ABBYY Europe to upgrade their existing development tools and deployed installation.

· ABBYY Europe can also provide Professional Services and Consulting to extend your development resources. Benefit from our industry expertise and make sure your project is delivered successfully and on time.

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