

# Understand how Eccentex IDP works in 8 easy steps



#1

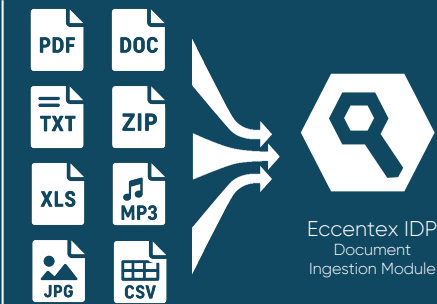


## Document Ingestion

In the initial phase Eccentex IDP ingest documents from multiple channels, such as mobile devices, email, shared folders, network scanners, faxes, EDIs, FTP, FileServ, WebForm, and other locations.

Eccentex IDP comes with open API and pre-built integration adapters to ensure easy and seamless integration with 3<sup>rd</sup> party systems and storage spaces regardless how documents enter into the system.

This ensures flexibility and adoptability without need to create custom capture adapters or middleware.



#2



## Image Enhancing

In this phase IPD applying AI-powered Image Enhancement to increase the machine-readability of the documents.

The original quality of the images embedded in the input documents can vary significantly. It could be due to poor lighting, blurred images, distortions or issues caused by auxiliary elements like protection marks, patterned backgrounds, field markings that may obscure some part of the information.

Eccentex IDP AI engine corrects distortions and separates text from the background. It cleans up visually busy and complex documents, like IDs, birth certificates, and forms-to achieve significantly higher processing rates.



#3

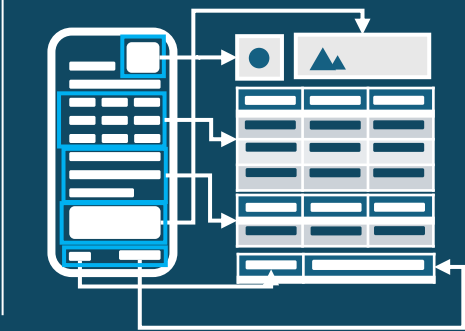


## Document Pre-processing (ICR)

Over time AI significantly improved the readability and interpretation of non-digital contents that previously was impossible to process automatically. With the help of AI, the use cases of document processing automation expanded across many industries.

Eccentex IDP AI-powered intelligent character recognition (ICR) technology normalize the input files, splitting / separating documents as needed and digitize any printed or handwritten text and prepare it for further processing.

This technology understand the structure of the whole document as well, including complex elements like tables and forms then extract data with high accuracy and export it to a digital format of choice.



#4



## Document Classification

In this phase Eccentex IDP identify the document types, allocate custom-built extraction models, as well as manual fallback options.

AI automatically setting up the classification model that can analyze both text and image features through multimodal learning to recognize each data on unstructured documents.

Once the document classified, documents are automatically assigned an AI extraction model for post-processing. Based on the Human feedback in later stages the classification model keep learning from the user corrections and automatically adjust and improve its performance over time.



#5

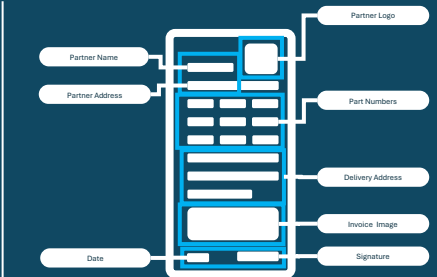


## Data Extraction

Eccentex IDP using NLP for interpretation, AI for table format extraction and for identifying key value pairs.

The system can extract data from structured, semi-structured, or unstructured documents using advanced AI and ML technics that can mimic human understanding. Eccentex IDP can read and understand multiple languages and recognize table structures, handwriting, checkmarks, barcodes, signatures, etc.

Automatic validation can cross-check information against databases and ensures compliance with built-in validation rules.



#6

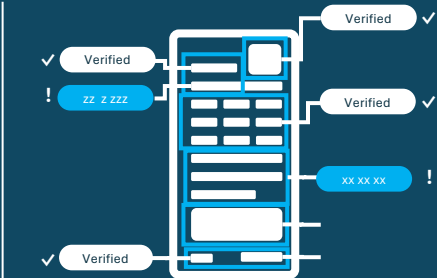


## Human in the Loop / Validation

Missing, incomplete, inconsistent data can be identified automatically as well as fraud suspicious or noncompliant data based on conditional logic, field-level validation, cross-field validation, threshold-based confidence scoring, and cross checking the data though external lookups.

Through human-in-the-loop (HITL) review cycles, important data can be manually checked and corrected if needed.

This optional step is crucial when high accuracy is required or when a document doesn't meet the specific validation rules.



#7



## Quality Control / Analytics

Eccentex IDP provides detailed reporting about the document processing performance and volumes across all document types.

The report highlights actionable insights about the root cause of issues and suggest enhancements across the related processes.

The system continuously track improvements and collect straight-through processing rates over time.



#8



## Data Output

At the final step, Eccentex IDP automatically exports data in the required format as defined in the configuration rules whether it is TXT, JSON, CSV, XML, or any other format.

The extracted data can be sent directly to any 3<sup>rd</sup> party systems as well as any other CRMBPM, Workflow systems or business applications through standard APIs or pre-built integration connectors for downstream processes.

