



## Parascript® FormXtra.AI® SDK

FormXtra.AI SDK is an easy-to-use Intelligent Document Processing runtime API that provides document classification, data location and extraction capabilities for systems integrators and software vendors. It provides the broadest range of support for common document-oriented tasks and supports any type of information in the document including machine print, table data, images (such as logos and signatures) and all forms of handwriting including constrained handprint, unconstrained handprint and cursive.

This high-performance SDK incorporates Smart Learning, which automatically configures all classification and extraction rules and learns by itself to improve performance. In dynamic production environments, maintaining ongoing system performance is now straightforward since FormXtra.AI SDK adapts to changing streams of documents in the background while documents are processed. Parascript document automation solutions process more than 100 billion documents per year.



FormXtra.AI SDK provides the core capture automation at some of the largest document automation implementations in the world. FormXtra.AI SDK processes high volumes of documents faster, using less people with fewer errors.

## Document Automation for Classification, Data Location, Extraction & Validation

FormXtra.AI SDK offers self-learning document processing automation built for enterprises that have high-volume, complex document processing needs. The .NET API provides unprecedented control over document processing configurations, routines and output. FormXtra.AI SDK includes web service capabilities that enable mobile capture, distributed scanning and remote desktop capture applications.

It can process any type of document, including checks, account applications, receipts, invoices and remittances. The FormXtra.AI SDK monitors and collects background data from operations and uses it to measure and improve performance with no change to existing workflows. Working in the background, this SDK eliminates manual tasks required to configure and optimize the system.



### Dynamic Document Classification *Expands processing functionality for wide range of data types*

FormXtra.AI SDK determines document types dynamically without the need for rules, barcodes or separator pages. Automated classification includes multiple classifiers that work independently on text and visual elements to provide the highest level of accuracy. Document classification also includes an automated document separator that intelligently identifies document boundaries.



### Any & All Data Types *Locates any information on the page*

FormXtra.AI SDK locates any information in the document that you need for your business systems. This includes text, all types of handwriting, logos, table data and signatures or other “script.” The FormXtra.AI SDK supports standard data such as OMR and 1D/2D barcodes.



### Mixed Document Capture *Improves workflow flexibility and reduces unnecessary complexity*

FormXtra.AI SDK locates fixed or dynamic fields on a page or within a document with the same document class. This improves workflow flexibility and reduces the number of defined and managed batch types.



### Expansive Location & Extraction

#### *Locates and processes all types of fields in any location in a document*

FormXtra.AI SDK processes any type of document, including forms, invoices, remittances, mail and documents that do not match a pre-defined template. FormXtra.AI assesses field relationships to aid with the location of data for extraction and locates complex field types to improve the range of data that can be processed.

## *Complete API Access*



### **Extendable API**

Embed FormXtra.AI with a highly flexible .NET API and extend with .NET-based scripting to provide advanced, granular control.

### **Automated Form Definition Business Rules**

Create applications and enable flexible, portable business workflows using FormXtra.AI SDK without relying on external applications by accessing the API from within the form definition.

## *Pre-Defined Form Modules*



### **Rapid & Easy Deployment**

Accelerate deployment time with optional, pre-defined out-of-the-box form modules.

### **Available Modules**

These include health claim, invoice, receipt. Mortgage classification, and check data location, extraction and verification.

## *Dynamic Signature Matching*



### **Locates, Verifies & Matches Signatures**

Locate signatures on documents and classifies or verifies them against a reference signature database.

Extracts signatures for signature database creation (e.g., on account applications).

Supports legal, mortgage, healthcare, vote-by-mail and other compliance-based applications, such as Know Your Customer (KYC).

## *Unstructured Handwriting Extraction*



### **Automatically Locates Handwritten Keywords**

Locate handwritten keywords that are not in a structured format (including expressive or transactional phrases such as “change of address”) and comments in margins and notes to help classify documents and extract data, regardless of type.

Transcribe full blocks of handwriting such as comments fields and even pages of handwriting.

## *Integrated Check Recognition*



### **Receivables & Remittance Processing**

Process checks within a stream of other documents, supporting applications that include receivables processing and associated remittance processing.

Parascript self-learning software combines world-class recognition engines to increase accuracy in batch and ad-hoc capture.

## *Integrated Address Location and Recognition*



### **Inbound Mail and Document Automation**

Automatically locate the addresses on the envelope and anywhere within the documents for routing. Address data can be validated against other documents such as purchase orders, invoices or remittances.

Parascript's high-accuracy address recognition engine increases data quality.


## *Web Service*



### **Web Service**

Automatically processes incoming image streams for document classes and returns results over either a SOAP-compatible communication protocol or REST service.

## Streamlined Functionality



### **Simple Set-up for Classification and Data Extraction**

All you need is tagged sample output data to automate the configuration of document classification, separation, and data extraction.



### **Support for Electronic Data**

Process documents such as searchable PDFs without using OCR.



### **Fine-tune Data**

View results of classification and recognition, set confidence thresholds, compare against truth data and see immediate results prior to production



### **Form Definition Business Rules with API Access**


Create applications and enable flexible, portable business workflows by accessing the FormXtra API from within the form definition.






## Smart Learning


Parascript **Smart Learning** is Parascript's unique machine learning platform that uses built-in data science that not only improves overall performance, but significantly reduces the amount of effort it takes to get high performance results. Smart Learning expands the scope of the applications and use cases that intelligent capture can address without increasing the amount of effort that it takes to get there. This means extracting data from complex documents just got easier.




Smart variance detection enables grouping like-documents to streamline data location and extraction.




Smart measurement analyzes results and refines the extraction model presenting improvement options to admin roles.



Smart document classifiers support every document type from text-heavy to documents with pictures.



Smart document analysis enables creation of data element location hypotheses to cover a broad range of document types.



Single solution for machine and handwriting without complex rules or add-ons. Achieve all types of form processing within the same user application leveraging machine learning.

# Technical Product Specifications

## Included Software Components

- .NET API
- REST and SOAP Web Services
- Folder Watcher
- Reco.exe comandline import

## Operating System

- Windows 10 or later

## APIs

- C++, .NET
- Available in both 32 and 64 bit

## Input

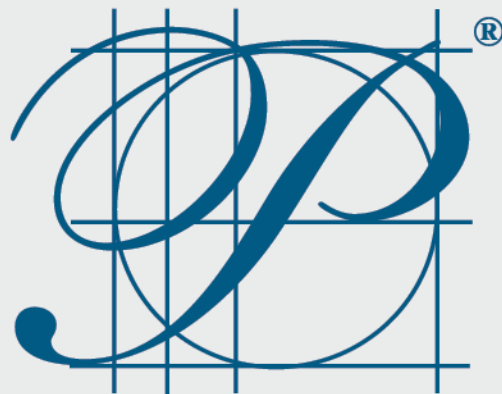
- Image Format: Black-and-white or grayscale TIFF, JPEG, PNG, and PDF
- Image Resolution: 200-300 DPI

## Output

- ASCII text file (raw or formatted), PDF, XML (raw), SharePoint 2010 Standard or Enterprise, RDBMS via ODBC

## Parascript Software

- FormXtra.AI SDK is one of the manysolutions within the Parascript software suite.
- Visit our website at [parascript.com](http://parascript.com) or call us at 888.225.0169.



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