P a r a s c r i p t
Toll free: 888.225.0169
info@parascript.com
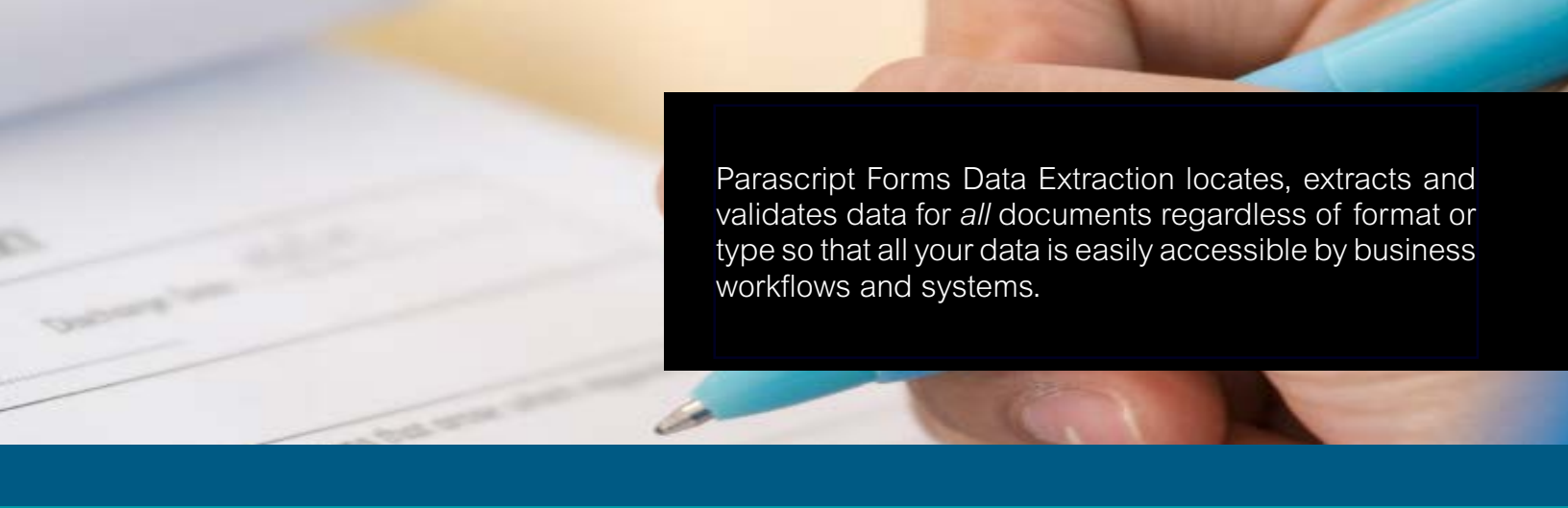www.parascript.com

Parascript® Forms Data Extraction

Parascript Forms Data Extraction locates, extracts and validates data for *all* documents regardless of format or type so that all your data is easily accessible by business workflows and systems.

Parascript Forms Data Extraction solution, leveraging FormXtra.AI, delivers critical information into business processes faster with greater accuracy for increased productivity and lower costs.

Overview

Over 90 percent of business processes begin with forms and applications. Necessarily, the data within these documents is critical. Streamlining these workflows through automation enables a new level of information transparency and cost efficiency.

Handling handwritten forms with a high degree of precision has meant a lot of effort to create rules and context for each field. **Until now.** With new deep learning-based recognizers, even handwritten data requirements become much easier to configure. Now handwriting recognition performance approaches the level often observed with text recognition.

Automate and Streamline

Parascript FormXtra.AI streamlines forms processing through automating document classification, data location, extraction and validation. It automatically processes multi-page forms with machine print, constrained and unconstrained handprint, and even cursive handwriting — all without requiring extensive configuration. With new Parascript recognizers, even pages of handwritten information can be reliably transcribed into machine-readable text. With single-pass recognition, there is no need to pre-define data types. Parascript software automatically detects the type of data and uses the appropriate recognition algorithm.

Complete Workflow with Secure Data Validation

Parascript FormXtra.AI helps eliminate manual data entry along with the security issues and errors introduced in repetitive, manual data handling. FormXtra.AI automatically processes high volumes of incoming data, ensures greater form security, and facilitates higher accuracy. Form-centric and field-centric validation workflows support a broad range of scenarios enabling just the single field or snippet (such as social security number, date of birth, and account numbers) to be sent for confirmation. This ensures privacy of sensitive information and increases productivity.

Smart Learning Adapts to Your Data

Our Smart Learning platform implements a completely novel self-learning capability based upon reinforcement learning that dramatically simplifies configuration and tuning for any document type, even structured forms, and uses your system's data trail to continually learn, adapt and improve. The system even knows when to update data models and can automatically set thresholds for straight through processing.

Comprehensive Data Type Support

Forms processing needs can run the full spectrum from simple machine print in structured forms to complex table data common on benefits forms. FormXtra.AI also handles handwritten forms that would otherwise require manual data entry for unconstrained fields. The software can even transcribe pages of handwritten correspondence. With FormXtra. AI, data location and extraction capabilities support every form processing need including even poor quality machine print associated with dot-matrix printers. Parascript was the first to offer high quality handwriting data extraction of both constrained and unconstrained fields. All of which means that BPOs can increase the range of forms that are processed automatically and leave data validation to a basic quality control effort.

Field & Page-based Data Validation

When it comes to data quality control, data validation and data correction are the most costly processes that service providers manage. While most forms processing platforms approach validation and correction from a page-level process, FormXtra.AI provides an additional capability: field-level validation. Instead of requiring staff to scan a full page to review and correct data, individual data fields can be sent to specific staff, allowing increased efficiency and speed for reviewing and making corrections. In cases where complete access to a form may have data or privacy risks, workflows can be created where no single staff member has a complete view of the data. Validation of certain fields can be restricted to specific staff members.

Detailed Data Quality Reports

Often it is not enough to have good validation processes. Continuously monitoring the quality of the data is necessary during various stages including after form data extraction, during validation and after validation. When data quality falls below service levels, staff can be easily alerted and react quickly. FormXtra.AI provides an extensive array of data quality reporting that enables proactively managing data extraction and data validation rules.

Sophisticated Data Validation Workflows

Quality data begins with the ability to create specific rules that govern the entire validation workflow. FormXtra.AI supports multiple levels of validation including pre- and post-form data extraction and before/during/post data review. FormXtra.AI also supports rules that govern when a reviewer can accept a field or page and move to the next one. At every stage, it is possible to validate automated data extraction or manual correction with any file-based or database third-party source. Rules can be created at the batch level that route data validation at the page or field level, based upon individual staff performance so that the most challenging data can easily be routed to more experienced staff. This helps ensure high quality data from automated processes instead of exhaustive manual audits.

Technical Product Specifications

Included Software Components
- **Form Definition Studio**
- **Scanner Interface Application**
- **Vocabularies and Postal Database**

Requirements
- **FormXtra.AI Server:** Dual-core 3GHZ or higher, 4GB RAM (8GB recommended), Windows Server 2016 or higher, Internet Information Services
- Use 64-bit OSs for high performance systems to support memory

- 1 GB disk space for application
- **Form Definition Studio: Windows 10**
- **Scanner Capture: Windows 7, 8, 10**
- **Administration and Validation Clients: Windows 10, Edge, Chrome, Firefox, and Safari & up**

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

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

Optional
- **Database Server:** (Optional support for SQL Server) Dual-core 3GHZ or higher, 4GB RAM (8GB recommended), Windows Server 2016 or higher