



Transforming Potential Into Ability

Freedom for Semi-Structured Applications

The Challenge Today

Organizations are compelled more than ever to invest in software solutions that cut costs, increase efficiency, improve customer service and supplier relations, and help maintain a competitive advantage across all parts of their business.

Traditionally some paper documents are difficult and costly to process. These semi-structured documents include invoices, purchase orders, receivables, cheques, payment slips, bills of lading, and their attachments (e.g., reports, memos, delivery notes, and other documents). The manual processing of these documents is time consuming, labor intensive, expensive and increases the probability of data inaccuracy. This leads many organizations to recognize costly and inefficient financial operations, late settlement of bills, and dissatisfied vendors.

The current challenges of data capture include:

- Large organizations process numerous invoices each day, 96% of which involve keying data from paper
- The total cost to process a single invoice can vary from \$10 to \$50
- 25% of invoices are paid late, leading to late charges and legal actions
- 10% of invoices processed require exception handling, requiring the retrieval of supporting documentation, which can take days or weeks

TIS *Freedom for Semi-Structured Applications* perfectly meets the specific challenges of automated processing for financial functions and ensures benefits to the organization on all levels.

Benefits of Freedom for Semi-Structured Applications

- Typical ROI in 12 months or less
- Increased throughput and faster processing semi-structured documents (e.g., invoices, purchase orders, cheques, bills of lading) and their attachments
- Achieve increased revenue and faster payment by practically eliminating processing errors
- The ability to handle exception documents, combined with improved data accuracy deliver enormous savings to the organization
- Minimal human intervention enables reduced labor costs and increased efficiencies
- Faster document processing means that vendors will be paid on time, enabling improved discount earnings on preferred vendor pricing
- Scalable architecture enables you to easily expand your systems as your needs grow

State-of-the-Art Technology

Using only one platform and one application, TIS *Freedom for Semi-Structured Applications* is the only solution capable of capturing, recognizing and integrating information from various sources such as paper, fax, telex, email, internet, and processing from multiple formats such as structured, semi-structured and unstructured. Once you invest in *Freedom for Semi-Structured Applications*, you can solve any data capture problems within the organization by simply adding incremental modules.

Freedom for Semi-Structured Applications, based on artificial intelligence technology, identifies the document design, captures the relevant data, while avoiding the repetitive form template. This gives the platform a significant advantage in processing semi-structured documents, which always contain repeated information.

Freedom for Semi-Structured Applications automatically identifies these semi-structured documents without the need to predefine the structure of each document and create a template at start-up. This is achieved using a unique learning mechanism, which improves in proportion

to the amount of documents the system processes. This results in automatic recognition of new, previously unseen documents by the system, significantly reducing implementation time, and increasing throughput.

Freedom for Semi-Structured Applications efficiently processes documents and attachments, including those with complex tables and line items, in single or multi-page format by learning from past recognition performance.

Freedom for Semi-Structured Applications uses human logic and goes beyond identifying keywords and key terms. It uses graphical symbols (e.g., lines and boxes specific to field), logical mathematical rules (e.g., Total= Subtotal + Tax), topographical rules (such as proximity to keywords or graphic symbols) and field masks (such as DD/MM/YY) in order to ensure accurate delivery of data to target back-office systems.

Using a multitude of powerful recognition engines, and applying a sophisticated voting algorithm on the whole document, *Freedom for Semi-Structured Applications* minimizes errors and produces unparalleled data accuracy.

Key Features of Freedom for Semi-Structured Applications

- Simple point-and-click tools cut customization efforts by up to 90%
- State-of-the-art learning mechanism for improved recognition
- Sharp accuracy in character recognition and error detection using the latest OCR and ICR technology
- Field recognition anywhere on a page using keywords, rules, and databases
- Unique enterprise connectors seamlessly deliver accurate data to a wide variety of leading ERP, CRM, financial, and workflow systems including SAP, Oracle, and TIS' own workflow
- Reliable, high speed processing of complex semi-structured documents, including those with complex tables and line items, and their attachments
- Support for distributed environments with remote scanning, processing and completion requirements