

# KOFAX Transformation Modules 5

Module 2 – Product Overview

**What is it?**

# Training Module Overview

- What is KTM?
- Structured, semi-structured and unstructured documents
- Classification, separation and extraction
- Kofax product differentiation
- Licensing
- Program Group components
- Integration with Kofax Capture



# What is KTM?

- KTM is a classification, separation and extraction “transformation” product for Kofax Capture (a suite of custom module add-ons)
- Although somewhat new to Kofax Capture, the product was introduced as Ascent Xtrata Pro 3.0. The product has now been rebranded as Kofax Transformation Modules, and this version is a 5.x release.
- Supports classification and extraction of structured, semi-structured and unstructured documents.
- Platform for delivering pre-configured, out-of-the-box solutions
- Offers learn-by-example extraction as well as numerous other methods to automatically extract data from documents
- Invoice classification by image and instructions (rules).

# Structured or Unstructured?

- KTM – Includes processing modules, a configuration application and several tools that work within Kofax Capture providing advanced document classification, separation, and extraction for structured, semi-structured and unstructured documents. It is optimized for invoice processing.

**Northwest Products**  
245 Corporate Dr.  
Lawrence, GA 30046

**Customer Information Sheet**

First Name: JAMES M1 Last Name: S LEWIS Dallas - 039851  
 Company Name: LAWSON TECHNOLOGIES  
 Address 1: 11456 TEMPLE ST  
 Address 2: SUITE 114E  
 City: RICHMOND TX Zip or Postal Code: 77240 State: TX  
 Phone: 214-555-1234

| Date      | Item Number | Sales Person |
|-----------|-------------|--------------|
| 4-15-2001 | 673         | SMITH        |
| 6-12-2004 | 439         | SMITH        |
| 2-14-2005 | 439         | TENSEN       |

Interest Level:  Low  Med  High  
 Decision Making:      
 Open to Call:

**Structured**

DATA Resolutions. ORIGINAL INVOICE

INVOICE NUMBER: 25452-222  
 INVOICE DATE: 01/16/2005  
 ORDER NUMBER: 00175900

SHIP TO: PowerPhone Inc., 551 AVEWOOD AVE, WINSTON, VA 25310  
 ORDER NUMBER: 00175900

SHIP TO: PowerPhone Inc., PO BOX 4442, WINSTON, VA 25310

02510 THANK YOU

| Unit | Year | Description          | Quantity | SP | Unit Price | Total Price |
|------|------|----------------------|----------|----|------------|-------------|
| 0010 | 0702 | 2345678901 CPCS      | 1        |    | 1,200.00   | 1,200.00    |
| 0010 | 0702 | 2345678901 CPCS      | 1        |    | 360.00     | 360.00      |
| 0010 | 0704 | 2345678901 CPCS      | 1        |    | 1,400.00   | 1,400.00    |
| 0008 | 0511 | VACUUM TONER 300T 12 | 1        |    | 465.00     | 465.00      |
| 0009 | 0702 | Wrapper XTE          | 34       |    | 12.00      | 408.00      |

AMOUNT DUE \$4,840.17

REMIT TO: DEPT G-NAV, 218 WYOMING, IL 62018

ACCOUNT NUMBER: 25452-222 DATE: 01/16/2005 INVOICE NUMBER: 25452-222 AMOUNT DUE: \$4,840.17

**Semi-structured**

NOTE

JULY 23, 2003 GRANDVILLE KICKEDAW  
 (Date) (City) (State)

11450 GOLF LAKE WYOMING, WY 83418  
 (Property Address)

**1. BORROWER'S PROMISE TO PAY**  
 I, the undersigned, for a loan that I have received, I promise to pay U.S. \$ \*\*\*\*131,920.00 (this amount is called "Principal"), plus interest, to the order of the Lender. The Lender is GREENBRIDGE MORTGAGE SERVICES, LLC

I will make all payments under this Note in the form of cash, check or money order.  
 I understand that the Lender may transfer this Note. The Lender or anyone who takes this Note by transfer and who is entitled to receive payments under this Note is called the "Note Holder."

**2. INTEREST**  
 Interest will be charged on unpaid principal until the full amount of Principal has been paid. I will pay interest at a yearly rate of 5.250 %.  
 The interest rate required by this Section 2 is the rate I will pay both before and after any default described in Section 6(b) of this Note.

**3. PAYMENTS**  
 (A) Time and Place of Payments  
 I will pay principal and interest by making a payment every month.  
 I will make my monthly payment on the FIRST day of each month beginning on SEPTEMBER 01, 2003 . . . I will make these payments every month until I have paid all of the principal and interest and any other charges described below that I may owe under this Note. Each monthly payment will be applied as of its scheduled due date and will be applied to interest before Principal. If, on AUGUST 01, 2033 . . . I will owe amounts under this Note. I will pay those amounts in full on that date, which is called the "Maturity Date."  
 I will make my monthly payments to HOME MORTGAGE, INC., P.O. BOX 10304, DSB MOBILE, IA 503040304 or at a different place if required by the Note Holder.

(B) Amount of Monthly Payments  
 My monthly payment will be in the amount of U.S. \$ \*\*\*\*49.03

**4. BORROWER'S RIGHT TO PREPAY**  
 I have the right to make payments of Principal at any time before they are due. A payment of Principal only is known as a "Prepayment." When I make a Prepayment, I will tell the Note Holder in writing that I am doing so. I may one designate a payment as a Prepayment if I have not made all the monthly payments due under the Note.  
 I may make a full Prepayment or partial Prepayments without paying a Prepayment charge. The Note Holder will use my Prepayments to reduce the amount of Principal that I owe under this Note. However, the Note Holder may apply my Prepayment to the accrued and unpaid interest on the Prepayment amount, before applying my Prepayment to reduce the Principal amount of the Note. If I make a partial Prepayment, there will be no changes in the due date or in the amount of my monthly payments unless the Note Holder agrees in writing to those changes.

MULTISTATE FIXED RATE NOTE Single Family Reside Max Previde Max UNIFORM INSTRUMENT

Form 3200 1-01

**Unstructured**

# Definitions

- **Classification** – Distinguishing between different Document Types and Form Types.
- **Separation** – Creating boundaries between individual documents in a batch. Documents may be single-page or multi-page.
- **Extraction** – The process of automatically lifting data from a document using rules or zones along with the output from a recognition engine (OCR, OMR, barcode, etc). This data usually is output to a database or document management application for later retrieval.

# Some of KTM's Features Include...

- KCNS compatible
- Enterprise Option (High Availability) compatible
- Processes image (.tif) files
- 2 variations
  - Invoice Projects
  - Standard Projects
- Knowledge Bases
  - Generic and Specific Knowledge Bases
    - Country-specific
  - Based on “on-line learning”
  - Optional password protection
- “Professional” add-on available
  - Includes advanced page classification and trainable document separation using the special “Project Planner” configuration tool
- Other standard features
  - Database lookups
  - Regular expression support
  - Dictionary files
  - Table recognition
  - Scripting WinWrap Basic (similar to VBA)
  - Language-specific support in OCR (ABBYY Fine Reader, RecoStar, AEG, Kadmos)

# KTM 4.0 – New Features

- Multiple instances of the KTM Server module
  - Classification and Separation
  - Extraction
- Document Review module
- Correction module: character-based correction
- Multiple instances of the KTM Validation module
- KTM Verification module
- Trainable Group Locator
- SQL Server support for statistics export
- Specific on-line learning for tables
- Page-level and zonal image cleanup
- Trainable Document Separation (Professional Version only)



# KTM 4.5 – New Features

1. Manual anchors for field registration
2. Web Validation and Verification modules
3. Arabic OCR engine (right  left)
4. Upgraded ABBYY OCR engine
5. Integrated A2iA engine for cursive text and check recognition
6. Database (SQL and ODBC) lookup utility
7. Metadata-driven application setup
8. Vendor Locator
9. Invoice Evaluator
10. Country-specific settings and generic knowledge bases
11. Purchase order line item matching

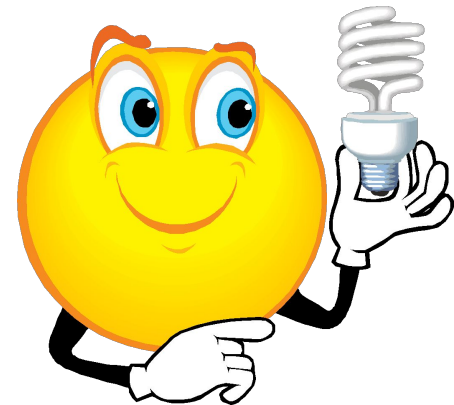




# KTM 5.0 – New Features

- Document Routing
- Batch Restructuring
- Multi Processor Support
- Thin client enhancements
  - New Thin Client Correction
  - Enhanced Thin Client Validation
    - folder support
    - batch editing
    - multiple steps
- Enhanced Document Review Module
- Script support in Verification
- Miscellaneous other features
  - New simplified licensing

**KOFAX**  
**Transformation**  
**Modules 5**



# Kofax Capture alone and with KTM Compared

| Feature                                                                | KC          | KTM | Notes                                                                                                                                                                                                                                                             |
|------------------------------------------------------------------------|-------------|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Functionality</b>                                                   |             |     |                                                                                                                                                                                                                                                                   |
| Classification - Image-based                                           | Y           | Y   | Allows forms and non-content rich documents (e.g. checks, invoices, etc.) to be classified. Kofax Capture based on histograms developed from single sample images. KTM uses multiple reduced-scal, low res sample pages, allowing for variety within a form type. |
| Classification - Rules-based                                           | Y           | Y   | Allows content-rich documents (e.g. correspondence) to be classified. KC relies on form identification zones in fixed locations. KTM matches words anywhere on a page.                                                                                            |
| Classification - Learn by Example                                      | N           | Y   | Allows complex classification and is easy to extend.                                                                                                                                                                                                              |
| Separation - Rules-based                                               | Y           | Y   | Typically, only addresses simple separation schemes. KC relies manual separation, fixed pages, bar codes, patch coded and word(s) found in a fixed form ID zone. KTM classifies pages first and then separates based rules related to page classification.        |
| Separation - Learn by Example                                          | N           | Y   | The KTM Professional Add-on addresses complex, fully-automatic separation requirements based on trainable document separation (TDS) configurations.                                                                                                               |
| Extraction - template-based                                            | Y           | Y   | Useful for structured documents and forms or semi-structured forms where required data is in the same location every time.                                                                                                                                        |
| Extraction - Free-form rules                                           | N           | Y   | Required for semi-structured and unstructured documents.                                                                                                                                                                                                          |
| Extraction - Learn by example                                          | N           | Y   | Trainable extraction using pre-created or user-created, transportable knowledge base files. Pre-configured methods for invoices. User-created methods for other kinds of documents.                                                                               |
| Automatic table extraction                                             | Y (limited) | Y   | Kofax Capture only returns OCR data for the first row of a table. All other rows must be manually keyed. KTM performs automatic table data extraction of ALL rows and is trainable.                                                                               |
| Separate server instances for classification/separation and extraction | N           | Y   | KC offers a single Recognition Server module that may be used for simple classification, separation and extraction. KTM offers the option of two KTM Servers: one typically used for classification and separation and the second used for extraction.            |
| Multiple instances of Validation                                       | N           | Y   | KTM offers up to five instances of KTM Validation as well as a separate KTM Verification module.                                                                                                                                                                  |

- New simplified licensing
  - New base licensing scheme based on numbers of fields extracted
    - 5-Fields Extraction Base License
    - Unlimited Field Extraction Base License
- Both base licenses include
  - Layout and content classification
  - Fixed- and free-form extraction
  - Invoice header and amount extraction (GLs/IHL)
  - Keying modules (inc web clients)

- New simplified licensing
  - Add-ons
    - Table Extraction
    - Professional (Project Planner)
    - Additional OCR engines (Kadmos)
    - Check Recognition
    - Cursive Field Recognition
    - Cursive Full-Page Recognition
    - Arabic OCR
    - Invoice Add-On Pack (Vendor Locator & Invoice Evaluator)
    - Invoice Line Items Matching
    - Medical Claims Add-on Pack

## • New simplified licensing

| Name                            | Base / AddOn | volume / system | Classification |        | Extraction  |                |                   |                                 |               |     |                    | Add Ons        |        |              |                |                 |        |              | Usage   |                        |                 |
|---------------------------------|--------------|-----------------|----------------|--------|-------------|----------------|-------------------|---------------------------------|---------------|-----|--------------------|----------------|--------|--------------|----------------|-----------------|--------|--------------|---------|------------------------|-----------------|
|                                 |              |                 | Content        | Layout | LIM Locator | Vendor Locator | Invoice Evaluator | Invoice-specific Group Locators | Table Locator | IHL | all other Locators | Keying Modules | Kadmos | Check Recog. | Cursive Recog. | Document Reader | Arabic | Thin Clients | Doc Sep | Medical Claims project | KTT development |
| KTM 5-Fields Extraction         | Base         | volume license  | X              | X      |             |                |                   | X                               |               | X   | X                  |                |        |              |                |                 |        |              |         |                        |                 |
| KTM Unlimited Fields Extraction | Base         | volume license  | X              | X      |             |                |                   | X                               |               | X   | X                  |                |        |              |                |                 |        |              |         |                        |                 |
| KTM Table Extraction            | add on       | volume license  |                |        |             |                |                   |                                 | X             |     |                    |                |        |              |                |                 |        |              |         |                        |                 |
| KTM Professional                | add on       | volume license  |                |        |             |                |                   |                                 |               |     |                    |                |        |              |                |                 |        |              | X       |                        |                 |
| KTM Keying Modules              | add on       | system license  |                |        |             |                |                   |                                 |               |     |                    | X              |        |              |                |                 |        |              |         |                        |                 |
| KTM Additional OCR Engines      | add on       | volume license  |                |        |             |                |                   |                                 |               |     |                    |                | X      |              |                |                 |        |              |         |                        |                 |
| KTM Check Recognition           | add on       | volume license  |                |        |             |                |                   |                                 |               |     |                    |                |        | X            |                |                 |        |              |         |                        |                 |
| KTM Cursive Field Recognition   | add on       | volume license  |                |        |             |                |                   |                                 |               |     |                    |                |        |              | X              |                 |        |              |         |                        |                 |
| KTM Document Reader             | add on       | volume license  |                |        |             |                |                   |                                 |               |     |                    |                |        |              |                | X               |        |              |         |                        |                 |
| KTM Arabic OCR                  | add on       | volume license  |                |        |             |                |                   |                                 |               |     |                    |                |        |              |                |                 | X      |              |         |                        |                 |
| KTM Invoice Add-on Pack         | add on       | volume license  |                |        |             |                | X                 | X                               |               |     |                    |                |        |              |                |                 |        |              |         |                        |                 |
| KTM Invoice Line Item Matching  | add on       | volume license  |                |        | X           |                |                   |                                 |               |     |                    |                |        |              |                |                 |        |              |         |                        |                 |
| KTM Web Server                  | add on       | system license  |                |        |             |                |                   |                                 |               |     |                    |                |        |              |                |                 |        |              | X       |                        |                 |
| KTM Medical Claims Add-on Pack  | add on       | system license  |                |        |             |                |                   |                                 |               |     |                    |                |        |              |                |                 |        |              |         |                        | X               |

# Licensing – New “Mix & Match”

- New simplified licensing
- ‘Mix-and-match’ possible
  - Mixture of base license volumes for a single system  
900k total volume = 300k 5-field extraction + 600k unlimited field extraction
  - Different volumes for add-ons possible  
30k Table Extraction + 120k Arabic OCR

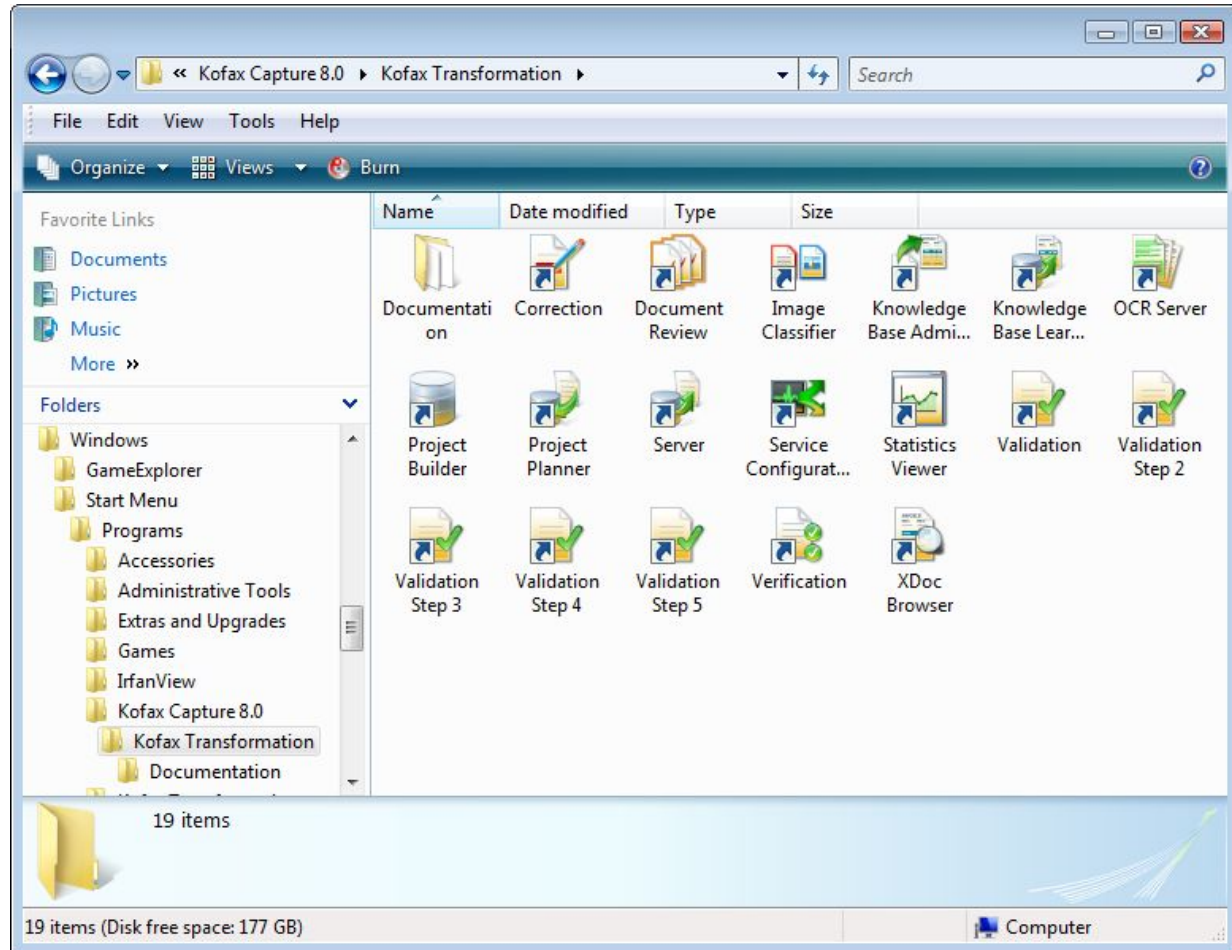




# Program Group Components

## KOFAX Transformation Modules 5

NOTE: In this example, 5 instances of KTM Validation have been installed. Project Planner (Professional Upgrade) has also been installed.



# KTM Service Configuration

**Kofax Transformation - Service Configuration**

**Log On Account for Services**

Log on as:

Local system account

Allow service to interact with desktop

This account:

Password:

Confirm password:

**Log Files for Services**

Language:

**Knowledge Base Learning Service**

Startup type:

**User Profile for Kofax Capture Administration**

Username:

Password:

Confirm password:

**Server Scheduler Service**

Automatic start of batch processing

Number of CPUs used:

Number of CPUs available:

Maximum memory used (in MB):

Available physical memory (in MB):

KTM 5 will support up to 16 CPU cores!



# Project Builder

Project Builder is the master configuration tool for setting up both "invoice projects" and "standard projects."

| Field         | Definition Class | Locator                  |
|---------------|------------------|--------------------------|
| InvoiceNumber | Invoice          | LocInvoice.InvoiceNumber |
| InvoiceDate   | Invoice          | LocInvoice.InvoiceDate   |
| OrderNumber   | Invoice          | LocOrder.OrderNumber     |
| OrderDate     | Invoice          | LocOrder.OrderDate       |
| SubTotal      | Invoice          | LocAmounts.SubTotal      |
| NetAmount     | Invoice          | LocAmounts.NetAmount0    |
| TaxAmount     | Invoice          | LocAmounts.TaxAmount1    |

| Locator       | Definition CI | Locator Method        | Comments |
|---------------|---------------|-----------------------|----------|
| LocOrder      | Invoice       | Order Group Locator   |          |
| LocAmounts    | Invoice       | Amount Group Locator  |          |
| FL_DueDate    | Invoice       | Format Locator        |          |
| TGL_Terms     | Invoice       | Trainable Group Locat |          |
| FL_Amounts    | Invoice       | Format Locator        |          |
| TL_LineItems  | Invoice       | Table Locator         |          |
| DL_VendorInfo | Invoice       | Database Locator      |          |

| Filename    | Classname | Confidence |
|-------------|-----------|------------|
| 00001FC.xdc |           |            |
| 00001FD.xdc |           |            |

| Item No. | Item Number     | Unit | Quantity | Unit Price | Extension |               |
|----------|-----------------|------|----------|------------|-----------|---------------|
| L 001    | M5H990029-001:G | Tony | EA       | 1200       | 17,9500   | 21,540.00 USD |

Document Viewer: Classified to: < not classified >

785 NORTH MARY AVENUE • SUNNYVALE, CA 94085-2809 • PHONE (408) 720-1900

**Oki Semiconductor**

INVOICE

INVOICE NO: 3085  
INVOICE DATE: 01/29/03  
SHIP TO: 202100  
KOFAX IMAGE PRODUCTS, INC.  
19245 LAGUNA CANYON ROAD  
IRVINE, CA 92618-1603

SHIP TO: 202100  
KOFAX IMAGE PRODUCTS, INC.  
19245 LAGUNA CANYON ROAD  
IRVINE, CA 92618-1603

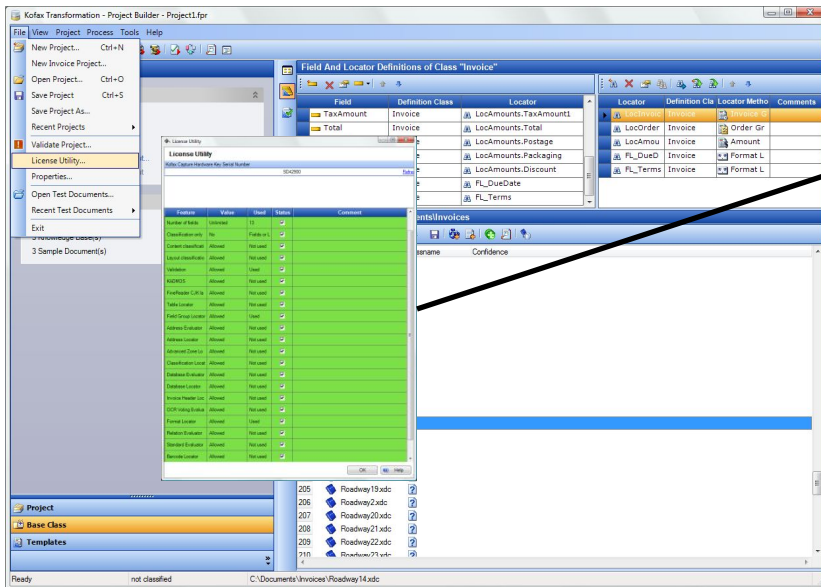
Customer No: 20020280  
Terms: NET THIRTY DAYS  
Customer Part No: M5H990029-001:G  
Unit Price: 17,9500  
Quantity: 1200  
Extension: 21,540.00 USD

Sub Total: 21,540.00 USD  
Sales Tax: 3,683.40 USD  
Amount Due: 21,540.00 USD

# KTM License Utility

KTM has its own license utility. It is available from the "File" menu in Project Builder, and allows you to view your license values and what you are using for any project.

More about Project Builder follows...



| Feature              | Value     | Used        | Status                              | Comment |
|----------------------|-----------|-------------|-------------------------------------|---------|
| Number of fields     | Unlimited | 13          | <input checked="" type="checkbox"/> |         |
| Classification only  | No        | Fields or L | <input checked="" type="checkbox"/> |         |
| Content classificati | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Layout classificatio | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Validation           | Allowed   | Used        | <input checked="" type="checkbox"/> |         |
| KADMOS               | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| FineReader CJK 1a    | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Table Locator        | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Field Group Locator  | Allowed   | Used        | <input checked="" type="checkbox"/> |         |
| Address Evaluator    | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Address Locator      | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Advanced Zone Lo     | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Classification Locat | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Database Evaluator   | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Database Locator     | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Invoice Header Loc   | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| OCR Voting Evalua    | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Format Locator       | Allowed   | Used        | <input checked="" type="checkbox"/> |         |
| Relation Evaluator   | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Standard Evaluator   | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |
| Barcode Locator      | Allowed   | Not used    | <input checked="" type="checkbox"/> |         |





# KTM Server

The Server may run as an application or as a self-starting Windows service. Up to 16 services may be used. It classifies, separates and extracts. With the Pro Upgrade, you may also want to run separate instances of the Server: one for classification and separation and one for extraction.

**Kofax Transformation Modules - Server Step 1**

Batch Options Help

**Current Batch Information**  
Batch Name: 3/10/2010 4:37:35 PM  
Batch Class: Invoices

**Current Document Statistics**  
Fields Extracted: 9 / 23  
Average Confidence: 39.00%

**Current Batch Progress**  
Document: 4 / 9  
CPU Usage: 100 %

**Current Document Information**

| Field          | Value                  |
|----------------|------------------------|
| Class          | Invoice                |
| Vendor         | Program Automation, In |
| VendorAddress1 | 22706 Aspan            |
| VendorAddress2 | #308                   |
| City           | Lake Forest            |
| State          | CA                     |
| Zip            | 92630                  |
| InvoiceNumber  | 9445                   |
| InvoiceDate    | 05/14/2003             |
| CustomerID     |                        |

**Current Image**

Program Automation, Inc  
22706 Aspan #308  
Lake Forest, CA 92630  
tel 949-859-4200 / fax 949-859-3977

**Invoice**

DATE: 05/14/2003  
INVOICE NO.: 9445

TO: KOFAX Image Products  
18035 Laguna Canyon Road  
Irvine, CA 92618-3603  
Attn: Cheryl Hill

FROM: KOFAX Image Products  
18035 Laguna Canyon Road  
Irvine, CA 92618-3603  
Attn: Cheryl Hill

| PO #     | TERM   | DATE      | REF DATE  | REF YR   | DATE |
|----------|--------|-----------|-----------|----------|------|
| 00000001 | Net 30 | 6/13/2003 | 1/18/2003 | g/Low up | 4745 |

| ITEM  | DESCRIPTION                                       | QTY | RATE  | AMOUNT |
|-------|---------------------------------------------------|-----|-------|--------|
| 07.43 | AKU-BLVD-1202C-4498-801C<br>ETW-CARTR-RECYCLED-00 | 17  | 0.00  | 0.00   |
| MTX   | MINIMUM CHARGE                                    |     | 25.00 | 25.00  |

Total: 5/14/03 \* 25.00

RECEIVED  
MAY 19 2003

Warning Count: 0 Error Count: 0 [Reset Counters](#)

4:38:08 PM [Info] 00000027 #01 Document extracted successfully, 9 field(s) found.  
4:38:09 PM [Info] 00000028 #01 Processing results of document 5  
4:38:09 PM [Info] 00000029 #01 Form type "FT\_Invoice" associated with class "Invoice"  
4:38:09 PM [Info] 00000030 #01 Document classified as "Invoice"  
4:38:09 PM [Info] 00000031 #01 Document extracted successfully, 11 field(s) found.

For help, Press F1 Processing... 00:00

# KTM Document Review

1/7/2009 10:50:48 AM - Kofax Transformation Modules - Document Review

Batch View Document Page Options Help

Document Viewer

Invoice : 1 Page

Invoice : 1 Page

Invoice : 1 Page

Continental Express : 1 Page


FedEx : 1 Page

Invoice : 1 Page

Current Problem

Ready

OVR NUM CAPS Doc: 7/9 Page: 1/1 Problems: 0



Continental Express, Inc  
One Cantrell Center  
2800 Cantrell Rd Suite 500  
Little Rock, AR 72202

|                   |               |                |
|-------------------|---------------|----------------|
| B.O.L.#           | INVOICE DATE  | INVOICE NUMBER |
| 06030840069582566 | 6/30/04       | 0475480        |
| P.O. NUMBER       | SHIP DATE     | TRACTOR        |
| 01801219          | 6/23/04       | 7122           |
| TRIP              | DRIVERNAME    | TRAILER1       |
| 0465877           | RANDY HARRISO | 3686           |
| LOAD              | COMPANYCD     | TRAILER2       |
|                   | 001           | 3686           |

**BILL TO** MAYMA  
MAYBELLINE INC  
C/O TRENDSET INC  
P O BOX 1208  
MAULDIN, SC 29662-1208

**LOAD AT** MAYNL  
MAYBELLINE COMPANY  
P O BOX 3392  
11500 MAYBELLINE DRIVE  
N LITTLE ROCK, AR 72117

**CONSIGNEE** WALJUI  
WALGREENS  
15998 WALGREEN DR  
JUPITER, FL 33478

| PIECES            | DESCRIPTION                 | MILES  | UM    | WGT   | QTY | RATE    | AMOUNT             |
|-------------------|-----------------------------|--------|-------|-------|-----|---------|--------------------|
|                   | RATES FOR MAYBELLINE        | 1047   |       | 7,486 |     |         |                    |
|                   | MILEAGE RATE                |        | 2     | 1,047 |     | 1 75    | 1,832 25           |
|                   | FUEL SURCHARGE INCREASE-CEP |        |       | 1,047 |     | 1,100 0 | 115 17             |
|                   | EXTRA STOPS                 |        | 4     | 1     |     | 75 00   | 75 00              |
|                   | UNLOADING                   |        | 4     | 1     |     | 200 00  | 200 00             |
|                   | S/O Orlando, FL             |        |       |       |     |         |                    |
| TRAFF #           | NLR                         | ITEM # | MAYMA |       |     |         |                    |
| <b>AMOUNT DUE</b> |                             |        |       |       |     |         | <b>\$ 2,222 42</b> |

PLEASE RETURN THIS PORTION WITH YOUR PAYMENT - PAYMENT DUE WITHIN 15 DAYS

|         |         |              |                  |
|---------|---------|--------------|------------------|
| BILL TO | INVOICE | INVOICE DATE | TOTAL AMOUNT DUE |
| MAYMA   | 0475480 | 6/30/04      | \$ 2,222 42      |

**PLEASE REMIT TO**  
P O Box 1000 Dept 006  
Memphis, TN 38148 0006  
SCAC Code CEPA

MAYBELLINE INC  
C/O TRENDSET INC  
P O BOX 1208  
MAULDIN, SC 29662-1208

# KTM Correction

The screenshot displays the 'Example Batch - Correction' window. It features a menu bar (Batch, Edit, View, Field, Options, Help) and a toolbar. The interface is divided into three main sections:

- Previous Field:** An empty text box.
- Current Field: CreditCardNum:** Shows a handwritten credit card number '5434001760307978' with vertical bars between digits. The first digit '5' and the sixth digit '6' are highlighted in yellow. Below this, the corrected number '5434001760307978' is shown, with the same '5' and '6' highlighted.
- Next Field: CreditCardNum:** Shows a handwritten credit card number '154345611548827977' with vertical bars between digits. The eighth digit '2' is highlighted in yellow. Below this, the corrected number '5434561548827977' is shown, with the same '2' highlighted.

The status bar at the bottom indicates 'Ready' and 'Folder: 1/1 (Example)'. The taskbar shows 'DVR', 'NUM', 'CAPS', and 'Folder: 1/1 (Example)'.

The character-based Correction module allows for single-key correction of characters read at a low confidence level. This client Correction is a new feature in KTM 5!

# KTM Validation

1/7/2009 10:50:48 AM - Kofax Transformation Modules - Validation

Batch Edit View Folder Document Page Field Options Help

Batch Content: 1/7/2009 10:50:48 AM

- 1: 307243 RI Page 1
- 2: 2759 Page 1
- 3: 8196020 Page 1
- 4: 0654980 Page 1
- 5: 8941022 Page 1
- 6: 6985904 Page 1

Classification Result: The document was classified to the following class: Invoice

16 fields valid, 2 fields invalid (0 fields invisible, 0 fields read-only)

Vendor Info:

- ARROW ELECTRONICS, INC.
- ARROW COMPONENT SOLUTIONS
- 27121 TOWNE CNTR DR STE 100
- FOOTHILL RANCH  CA  92610

Invoice Info:

|           |                                     |            |
|-----------|-------------------------------------|------------|
| 8941022   | <input checked="" type="checkbox"/> | 8941022    |
| 04/08/03  | <input checked="" type="checkbox"/> | 04/08/05   |
| 434748401 | <input checked="" type="checkbox"/> | 434748401  |
| 04/04/03  | <input type="checkbox"/>            | 04/04/2003 |
| 451.35    | <input checked="" type="checkbox"/> | 451.35     |
| 451.35    | <input checked="" type="checkbox"/> | 451.35     |
| 0.00      | <input checked="" type="checkbox"/> | 0.00       |
| 0.00      | <input checked="" type="checkbox"/> | 0.00       |
| 0.00      | <input checked="" type="checkbox"/> | 0.00       |
| 0.00      | <input checked="" type="checkbox"/> | 0.00       |
| 451.35    | <input checked="" type="checkbox"/> | 451.35     |

InPlace Editor - Field "OrderDate"

04/04/03

OrderDate

04/04/2003

Current Error: **The field extraction is not certain.**

**ARROW ELECTRONICS, INC.**  
ARROW COMPONENT SOLUTIONS

27121 TOWNE CNTR DR STE 100  
FOOTHILL RANCH, CA 92610

1306 INVOICE  
INVOICE NO. 8941022  
DATE 04/08/03

ORIGINAL PAGE 1

SOLD TO: ATTN ACCTS PAYABLE DEPT., KOFAX IMAGE PRODUCTS, 16245 LAGUNA CANYON ROAD, IRVINE CA 92618-3802

SHIP TO: KOFAX IMAGE PRODUCTS, 16245 LAGUNA CANYON ROAD, IRVINE CA 92618-3802

Remit To: PO BOX 79329, CITY OF INDUSTRY, CA 91716-9329

\*\*\* PLEASE ENSURE ALL PAYMENTS ARE FORWARDED TO THE ADDRESS ABOVE \*\*\*

CUSTOMER ORDER NO. 20036086 286

|                           |                       |                          |              |                        |                 |                 |               |
|---------------------------|-----------------------|--------------------------|--------------|------------------------|-----------------|-----------------|---------------|
| SALES ORDER NO. 434748401 | BRANCH GO             | CUSTOMER NO. 175009      | T.C. 100     | DATE OF ORDER 04/04/03 | USER CHARITY    | F.O.B. 2-ORIGIN | TERMS SPECIAL |
| BLN. A/OUT 3/F            | DATE SHIPPED 04/08/03 | SHIPPED VIA UPS GRD TRAC | CONTRACT NO. |                        | PRIORITY RATING |                 |               |

| ITEM | QTY. | QTY. SHIP. | PRODUCT DESCRIPTION                     | PER              | UNIT PRICE | TOTAL  |
|------|------|------------|-----------------------------------------|------------------|------------|--------|
| 01   | 153  | 153        | AM29LV400BB-1205C AMOBC PROGRAMMED PART | EA               | 2.9500     | 451.35 |
|      |      |            | THANK YOU FOR YOUR BUSINESS             | TAX              |            | 451.35 |
|      |      |            |                                         | FREIGHT/HANDLING |            | 0.00   |
|      |      |            |                                         | PAY THIS AMT     | 37228      | 451.35 |

ANY QUESTIONS RELATING TO THIS INVOICE, PLEASE CONTACT: THE CREDIT DEPARTMENT @ (949) 470-3563

WAYBILL NUMBERS: 129634040318304224

RECEIVED APR 14 2009

DEBTA

ALL QUANTITIES HAVE BEEN CHECKED TWICE. ALL CLAIMS FOR SHORTAGES MUST BE MADE WITHIN 16 DAYS FROM DELIVERY. NO RETURNS WILL BE ACCEPTED WITHOUT PRIOR AUTHORIZATION.

YOUR COPY

THIS SHIPMENT IS MADE SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE HEREOF.

PLEASE RETURN THIS PORTION WITH YOUR REMITTANCE TO:

PO BOX 79329  
CITY OF INDUSTRY, CA  
91716-9329

CUSTOMER NO: 175009  
KOFAX IMAGE PRODUCTS  
INVOICE DATE: 04/08/03  
INVOICE NO: 8941022  
CUSTOMER ORDER NO: 20036086

ORDER TOTAL 451.35  
TAX 0.00  
FREIGHT/HANDLING 0.00

PAY THIS AMT 451.35

OVR NUM CAPS Doc: 5/9 Page: 1/1 Invalid Docs: 9

The Validation module allows you to review and correct data that has been automatically extracted. You may also enter data manually.

Thin client Validation is also possible!



# KTM Verification

**Test Verification**  
Batch View Folder Document Page Field Options Help

Batch Content: 1 field verified, 2 fields not verified

InvoiceNumber:  310264 RI

InvoiceDate:  05/21/2003

Total:  21553.42

Current Error: **Please review the image and confirm the value if it is correct.**

Ready

OVR NUM CAPS Doc: 1/7 Page: 1/1 Not Verified Docs: 7

**Ok Semiconductor**  
SHIP TO: 202180  
KOFAX IMAGE PRODUCTS, INC  
16245 LAGUNA CANYON ROAD  
IRVINE CA 92618-3603

785 North Mary Avenue  
Sunnyvale, CA 94085-2909  
Tel: 408-720-1920  
Fax: 408-720-1918

IRVINE CA 92618-3603

INVOICE

Customer PO Number: 195514

KOFAX IMAGE PRODUCTS, INC.  
ACCOUNTS PAYABLE DEPT.  
16245 LAGUNA CANYON ROAD  
IRVINE CA 92618-3603

Invoice Number: 310264 RI  
Invoice Date: 05/21/03  
Customer PO Number: 20030032  
Ok! SO Number: 559747 SO  
Payment Terms: NET THIRTY DAYS  
Packing Slip Number: 91692  
Shipment Date: 05/21/03  
Airway Bill Number:  
F.O.B.: FOB-SHIPPING PO  
Reference (SPSSL No.):  
Carrier Number: UPS GROUND

| Line No. | Ok! Part Number<br>Customer Part Number | U/M | Quantity | Unit price | Extended Price         |
|----------|-----------------------------------------|-----|----------|------------|------------------------|
| 1.001    | MSM990029-001LS<br>15800051-000         | EA  | 1200     | 17.9500    | 21,540.00<br>21,540.00 |
| 2.000    | FREIGHT                                 | EA  | 1        | 13.4200    | 13.42<br>13.42         |

ENTERED MAY 29 2003

RECEIVED  
MAY 27 2003

Please Remit to:  
OKI SEMI-SF LOCKBOX  
P.O. BOX 7060  
SAN FRANCISCO CA 94120

SUBTOTAL: 21,553.42 USD  
SALES TAXES: USD  
AMOUNT DUE: 21,553.42 USD

\* CUSTOMERS WHOSE PAYMENTS ARE NOT RECEIVED WITHIN 45 DAYS OF INVOICE DATE MAY BE SUBJECT TO CREDIT HOLD

Thin client Verification is also possible!



# KTM Knowledge Base Learning Server

Batch Options Help

Current Batch Information

Batch Name:

Batch Class:

Current Batch Progress

Document:

0 / 0

Event Log

Warning Count: 0 Error Count: 0 [Reset Counters](#)

3:21:54 PM [Info] 00000001 Kofax Transformation Modules - Knowledge Base Learning Server (Soft  
3:21:54 PM [Info] 00000002 Login to Kofax Capture successful.  
3:21:55 PM [Info] 00000003 Batch opened "1/7/2009 10:50:48 AM" (Invoices)  
3:21:56 PM [Info] 00000004 Project generation: 0 Directory generation: 1  
3:21:57 PM [Info] 00000005 3 documents copied for Generic Online Learning.  
3:21:57 PM [Info] 00000006 3 documents copied for Specific Online Learning.  
3:21:57 PM [Info] 00000007 Batch closed "1/7/2009 10:50:48 AM" (Invoices)  
3:21:57 PM [Info]

For help, Press F1 Idle 00:45

The KTM Knowledge Base Learning server may run as an unattended application or a windows service. It accomplished sending documents “tagged” for online learning back to a pre-specified folder. It also instantly and dynamically updates Specific Knowledge Bases.

# Knowledge Base Administrator

The screenshot displays the Knowledge Base Administrator interface. The main window is titled "Kofax Transformation - Knowledge Base Administration - Project1S.fpr". The left sidebar contains sections for "My Knowledge", "Tasks", and "Details". The "Knowledge Bases" section is active, showing a table of existing knowledge bases. A "Create Knowledge Base" dialog box is open in the foreground, allowing the user to configure a new knowledge base. The dialog includes fields for "Selected training folders", "Path", "Knowledge Base Types", "Knowledge Base Algorithm", and "Knowledge Base Information".

| Name                                               | Protection  | Last Modified    | Sample ... | Type        | Algorithm | Owner        |
|----------------------------------------------------|-------------|------------------|------------|-------------|-----------|--------------|
| <input checked="" type="checkbox"/> USStandard.kbo | No licen... | 9/10/2008 12:... | 976        | Order d...  | Generic   | Built-In ... |
| <input checked="" type="checkbox"/> USStandard.kbi | No licen... | 9/10/2008 12:... | 1420       | Invoice ... | Generic   | Built-In ... |
| <input checked="" type="checkbox"/> USStandard.kba | No licen... | 9/10/2008 12:... | 1120       | Amounts     | Generic   | Built-In ... |

**Create Knowledge Base**

Selected training folders:  
 <Default> (11)

Path:  
C:\Program Files\Kofax\Transformation\Proje

Create with password protection

Knowledge Base Types  
 Amount Group (\*.kba)  
 Invoice Group (\*.kbi)  
 Order Group (\*.kbo)

Knowledge Base Algorithm  
 Generic  Specific

Knowledge Base Information  
Name: knowledgebase1  
Description:  
Owner:

The Knowledge Base Administrator is a standalone application that is used to build training sets and create knowledge bases for an already-existing KTM project.



# OCR Server

The OCR Server allows you to create OCR output (including Xdocuments) outside of Project Builder and without having to process batches through the Kofax Capture workflow.

The screenshot displays the Kofax Transformation - OCR Server interface. The window title is "Kofax Transformation - OCR Server". The menu bar includes "File", "Process", "Options", and "Help".

**Image path:** C:\Documents\Invoices\Arrow Multi

|           | Doc     | Page    |
|-----------|---------|---------|
| Count     | 20      | 2       |
| Progress  | 1       | 2       |
| Errors    | 0       | 0       |
| Min. time | 6.645 s | 3.307 s |
| Max. time | 6.645 s | 3.338 s |
| Avg. time | 6.645 s | 3.322 s |

Page progress: 0 %

Progress all docs: 0 %

Remaining volume: -1

Last OCR result:

AAmr / N ARROW ELECTRONICS, INC.  
ARROW COMPONENT SOLUTIONS 130GD \*NVO.ICE  
INVOICE NO. 8930518  
27121 TOWNE CNTR DR STE 100 DATE 04 / 07 / 03  
ORIGINAL PAGE 1 FOOTHILL RANCH, CA 92610  
SOLD TO SHIP TO Remit To :  
ATTN ACCTS PAYABLE DEPT. PO BOX 79329  
KOFAX IMAGE PRODUCTS KOFAX IMAGE PRODUCTS CITY  
OF INDUSTRY, CA  
16245 LAGUNA CANYON RD 16245 LAGUNA CANYON RD  
91716 - 9329  
IRVINE CA 92618 - 3802 IRVINE CA 92618 - 3802  
\*\*\* PLEASE ENSURE ALL  
PAYMENTS ARE FORWARDED  
TO THE ADDRESS ABOVE \*\*\*

Last error message:

Ready

**ARROW ELECTRONICS, INC.**  
ARROW COMPONENT SOLUTIONS  
27121 TOWNE CNTR DR STE 100  
FOOTHILL RANCH, CA 92610

**INVOICE**  
INVOICE NO. 8930518  
DATE 04/07/03

ORIGINAL PAGE 2

SOLD TO  
ATTN ACCTS PAYABLE DEPT.  
KOFAX IMAGE PRODUCTS  
16245 LAGUNA CANYON RD  
IRVINE CA 92618-3802

SHIP TO  
KOFAX IMAGE PRODUCTS  
16245 LAGUNA CANYON RD  
IRVINE CA 92618-3802

Remit To  
PO BOX 79329  
CITY OF INDUSTRY, CA  
91716-9329

\*\*\* PLEASE ENSURE ALL  
PAYMENTS ARE FORWARDED  
TO THE ADDRESS ABOVE \*\*\*

CUSTOMER ORDER NO. 20036089

| INVOICE ORDER NO. | BRANCH | DISTRICT NO. | TO  | DATE OF ORDER | SECTOR  | FOR | 2-ORIGIN | TERMS       |
|-------------------|--------|--------------|-----|---------------|---------|-----|----------|-------------|
| A35653703         | 00     | 17500        | 100 | 04/07/03      | CHARITY |     |          | NET 30 DAYS |

| ITEM                                                                                              | QTY | UNIT | PRICE | TOTL   |
|---------------------------------------------------------------------------------------------------|-----|------|-------|--------|
| THANK YOU FOR YOUR BUSINESS                                                                       |     |      |       | 282.59 |
| TAX                                                                                               |     |      |       | 0.00   |
| FREIGHT/HANDLING                                                                                  |     |      |       | 0.00   |
| PAY THIS AMT                                                                                      |     |      |       | 282.59 |
| ANY QUESTIONS RELATING TO THIS INVOICE,<br>PLEASE CONTACT: THE CREDIT DEPARTMENT @ (949) 470-3563 |     |      |       | 21.90  |
| WAYBILL NUMBERS<br>12963100316279182                                                              |     |      |       | 304.49 |

DETA

ALL QUANTITIES HAVE BEEN CHECKED TWICE. ALL CLAIMS FOR SHORTAGES MUST BE MADE WITHIN 10 DAYS FROM DELIVERY. NO RETURNING WILL BE ACCEPTED WITHOUT PRIOR AUTHORIZATION.

THIS SHIPMENT IS MADE SUBJECT TO THE TERMS AND CONDITIONS ON THE REVERSE HEREOF.

PLEASE RETURN THIS PORTION WITH YOUR REMITTANCE TO:

CUSTOMER NO: 17500  
KOFAX IMAGE PRODUCTS  
INVOICE DATE: 04/07/03  
INVOICE NO: 8930518  
CUSTOMER ORDER NO: 20036089

PO BOX 79329  
CITY OF INDUSTRY, CA  
91716-9329

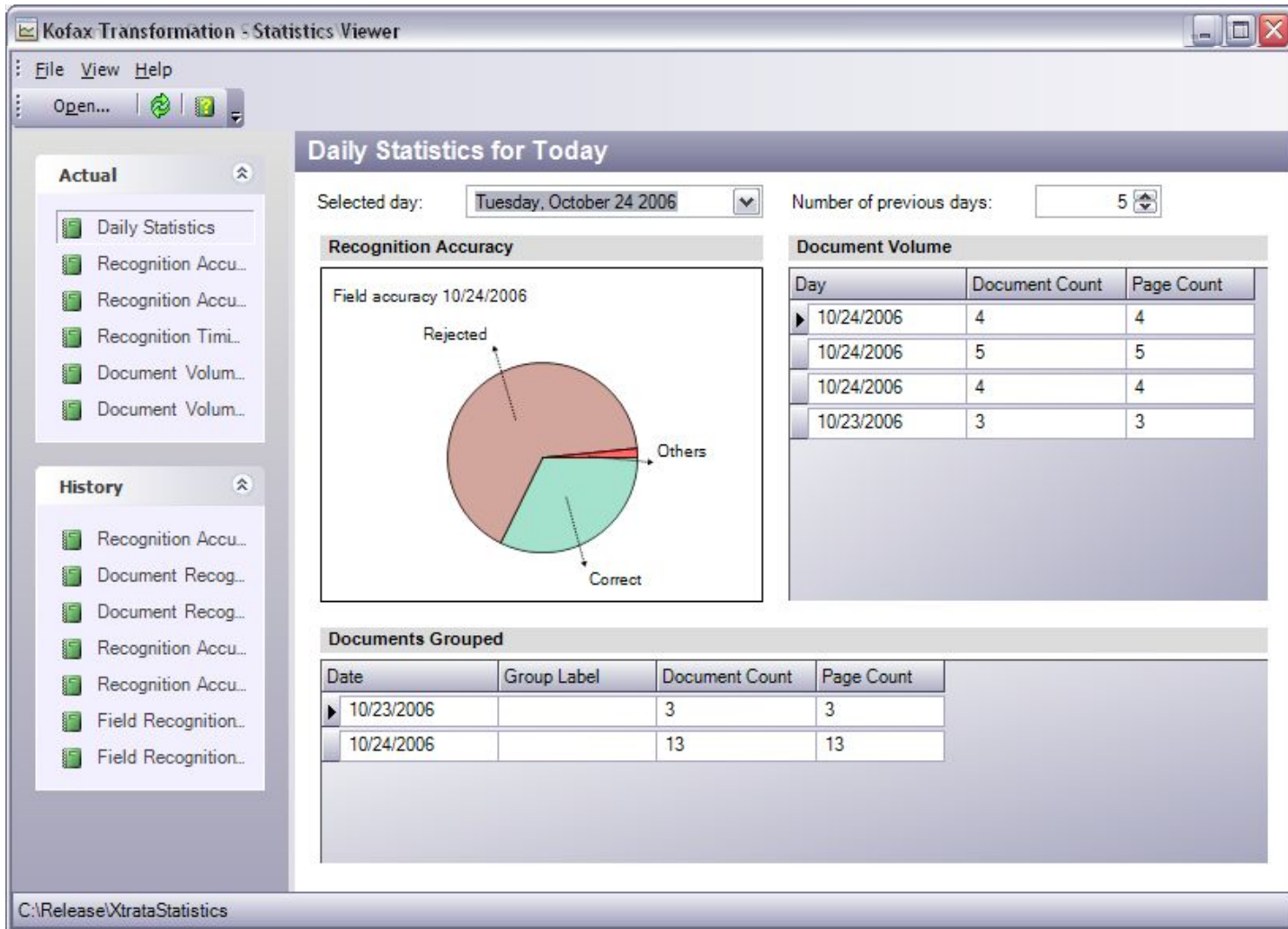
ORDER TOTAL 282.59  
TAX 0.00  
FREIGHT/HANDLING 0.00

PAY THIS AMT 282.59



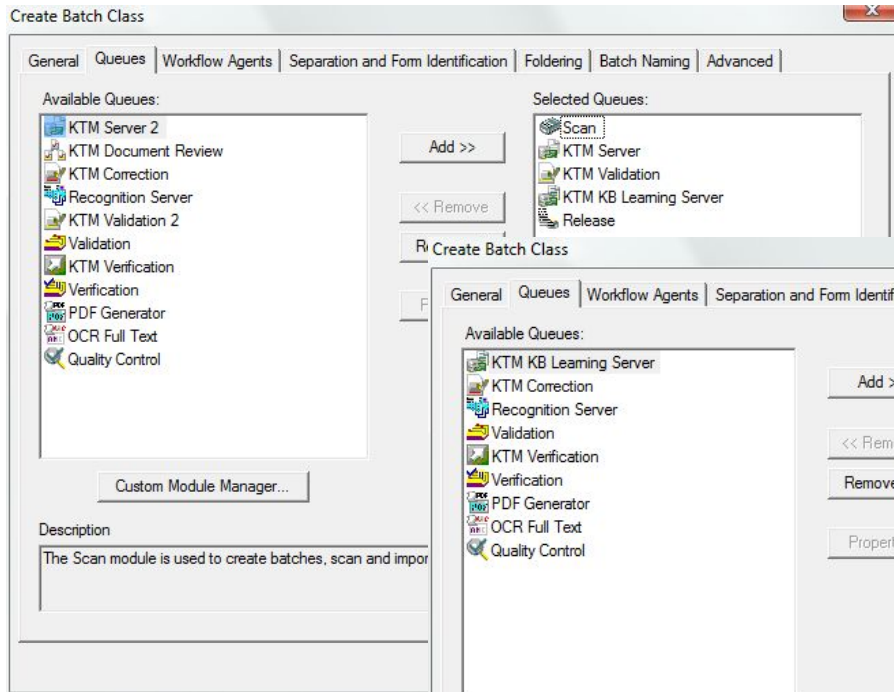


# Statistics Viewer

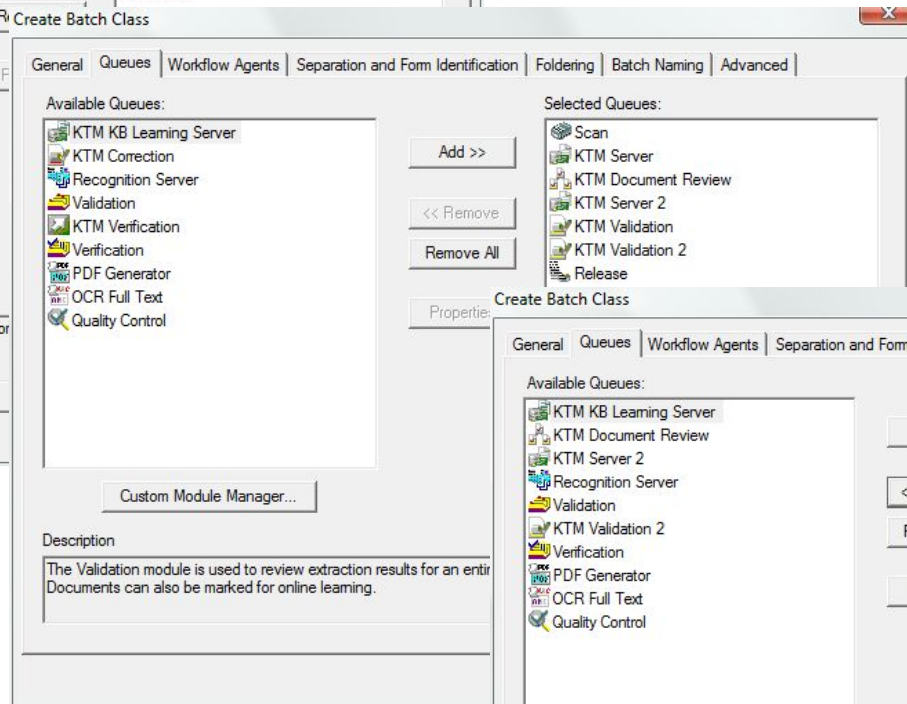


The Statistics Viewer allows you to view summary statistics of the results of automatic processing as you set up and modify your projects.

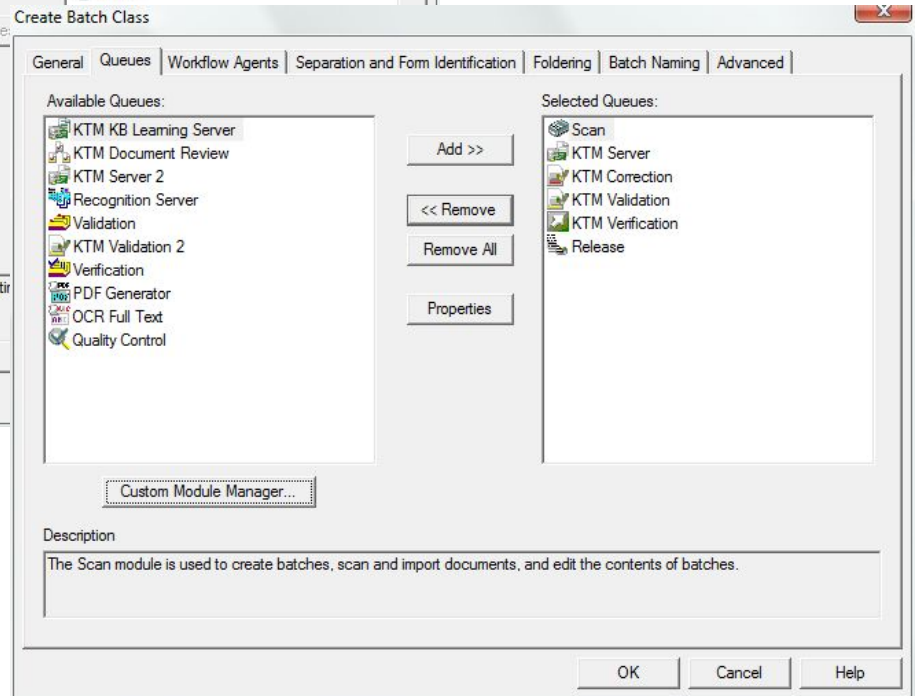
# Kofax Capture Batch Workflow



Typical invoice processing solution



Typical free-form solution using page using advanced document separation



Typical fixed-form solution

# Kofax Capture Integration

The image displays two overlapping windows from the Kofax software suite. The background window is 'Kofax Capture Administration', showing a tree view of document classes and a context menu for 'Invoices'. The foreground window is 'Kofax Transformation Modules - Synchronization Tool', which is used for mapping project classes to Kofax Capture form types. The tool window has three tabs: 'Classes', 'Fields', and 'Synchronize'. The 'Synchronize' tab is active, showing a 'Classification Project' table with columns for 'Project' and 'Kofax Capture Form Type'. The table lists several projects like 'Continental Express', 'Dell', 'FedEx', 'Oki', and 'Pinpoint', each with a corresponding form type. To the right, a 'Kofax Capture Document Classes' tree shows the structure of the 'Invoice' document class, including sub-classes like 'FT\_Continental Express', 'FT\_Dell', 'FT\_FedEx', 'FT\_Invoice', 'FT\_Oki', and 'FT\_Pinpoint'. Below the table, there are instructions for the synchronization process: 'Step 1: Assign project classes to Kofax Capture form types', 'Step 2: Assign extraction fields to Kofax Capture index fields and define display fields for validation', and 'Step 3: Synchronize project classes and extraction fields with Kofax Capture'. Navigation buttons for 'Previous Step', 'Next Step', 'Cancel', and 'Help' are visible at the bottom of the tool window. The file path 'C:\Program Files\Kofax\Transformation\Project Files\Project1S\Project1S.fpr' is shown at the bottom of the tool window.

**Step 1: Assign project classes to Kofax Capture form types**  
Step 2: Assign extraction fields to Kofax Capture index fields and define display fields for validation  
Step 3: Synchronize project classes and extraction fields with Kofax Capture

C:\Program Files\Kofax\Transformation\Project Files\Project1S\Project1S.fpr

Easy-to-use Synchronization Tool integrates KTM projects with Kofax Capture Document Classes and Form Types.



## KOFAX Transformation Modules 5

*in ACTION*

