

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 30244

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 State: TX Zip or Postal Code: 772405-6723
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

Item	Year	Description	Quantity	SP	Unit Price	Total Price
0010	4702	2345678901 CPCS	1		1,200.00	1,200.00
0010	4702	2345678901 CPCS	1		300.00	300.00
0010	4704	2345678901 CPCS	1		1,400.00	1,400.00
0040	40411	VACUUM TONER 300T 12	1		400.00	400.00
0050	3752	Wrapper XTE	24		12.00	408.00

AMOUNT DUE \$4,840.17

REMIT TO: DEPT G-NAV, 218 WYOMING, IL, 30018

ACCOUNT NUMBER: 25452-222 DATE: 01/16/2005 INVOICE NUMBER: 25452-222 AMOUNT DUE: \$4840.17

Semi-structured

NOTE

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

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.

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%.

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. I, 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."

(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-Resale-Non-Prepaid-Non-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

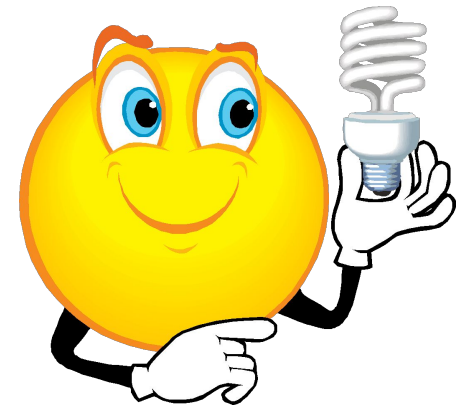
1. Manual anchors for field registration
2. Web Validation and Verification modules
3. Arabic OCR engine (right left)
4. Upgraded ABBYY OCR engine
5. Integrated A2iA engine for cursive text and check recognition
6. Database (SQL and ODBC) lookup utility
7. Metadata-driven application setup
8. Vendor 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
Functionality			
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”

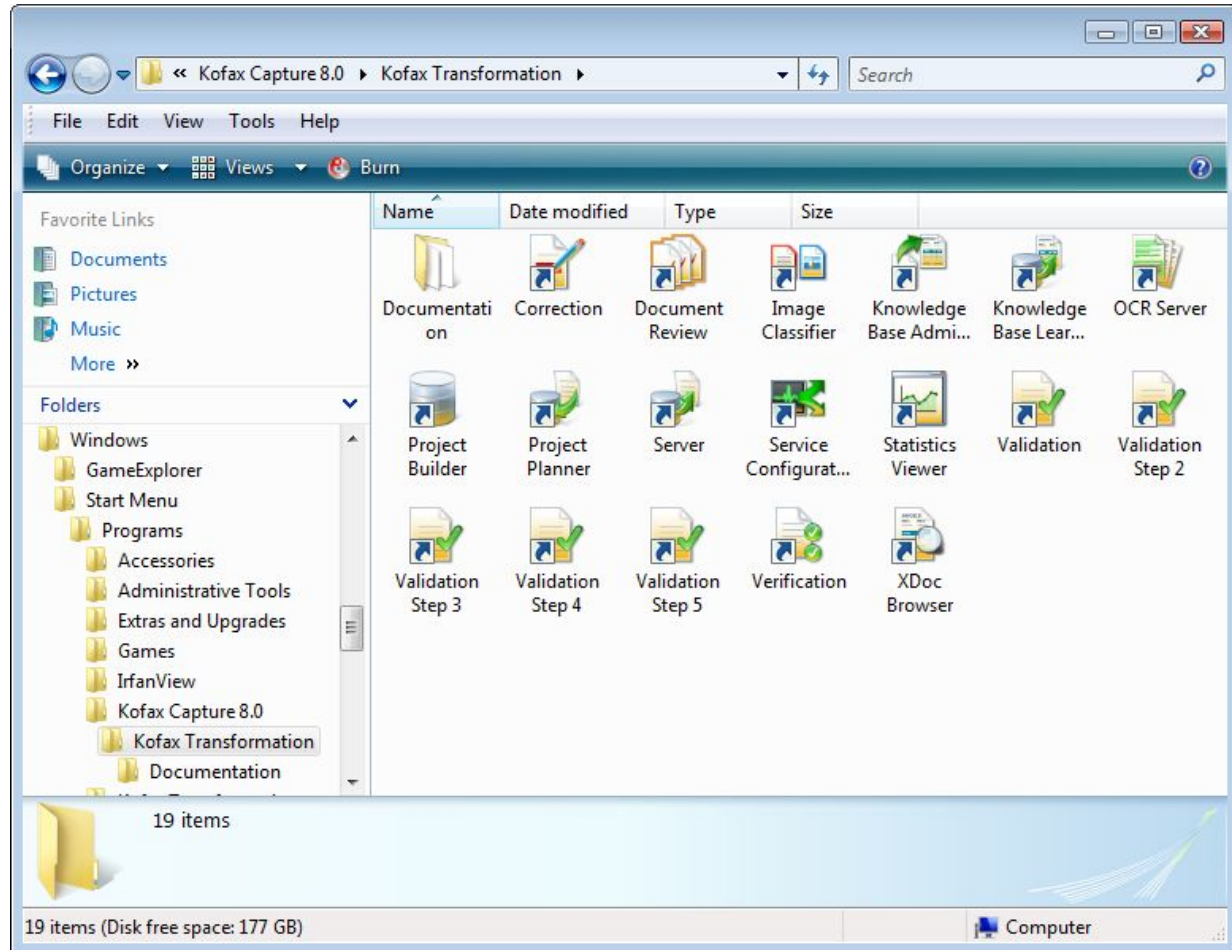
- New simplified licensing
- ‘Mix-and-match’ possible
 - Mixture of base license volumes for a single system
900k total volume = 300k 5-field extraction + 600k unlimited field extraction
 - Different volumes for add-ons possible
30k Table Extraction + 120k Arabic OCR



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

Field And Locator Definitions of Class "Invoice"

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	

Document Viewer

Classified to: < not classified >

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

INVOICE

INVOICE NO: 3085
 INVOICE DATE: 01/29/03
 SHIPPED DATE: 03/29/03
 CUSTOMER NAME: LIPS GROUND
 ORDER NUMBER: 556751
 WORKING SUPPLY NO: 88345
 00010

Oki Semiconductor

BILL TO: 195524
 KOFAX IMAGE PRODUCTS, INC.
 ACCOUNTS PAYABLE DEPT
 16245 LAGUNA CANYON ROAD
 IRVINE CA 92619-3603

SHIP TO: 202100
 KOFAX IMAGE PRODUCTS, INC.
 19245 LAGUNA CANYON ROAD

CUSTOMER NO. NO	TERMS	FOB	REF NO.	REF NAME	REFERENCE(S) (SPL NO)
20020280	NET THIRTY DAYS	FOB-SHIPPING PO	103180	KOFAX IMAGE PRODUCTS	

ITEM NO.	ITEM NUMBER	UNIT	QUANTITY	UNIT PRICE	EXTENSION
L 001	M5M990029-001LS	Tony	EA	1200	17,9500

RECEIVED
FEB 03 2003

ENTERED FEB - 6 2003

Please Remit to: OKI SEMI-SP LOCK BOX
 P.O. BOX 7090
 SAN FRANCISCO CA 94120
 CUSTOMER

SUB TOTAL 21,540.00 USD
 SALES TAX 368.36 USD
 AMOUNT DUE 21,540.00 USD

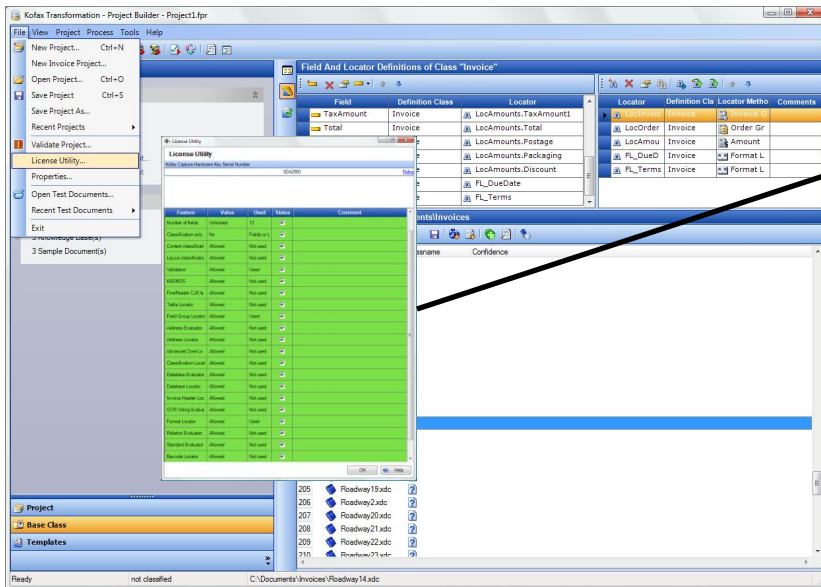
C:\Documents\Invoices\000001FE.xdc 300dpi / 300dpi 1 / 1

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

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 949-859-4300 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 ETW-CARTR-RECYCLED-00	17	0.00	0.00
MTX	MINIMUM CHARGE		25.00	25.00

RECEIVED
MAY 19 2003

Total 3/14/8 * 25.00

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				
AMOUNT DUE							\$ 2,222 42

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 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"

OrderDate: 04/04/03

Current Error: The field extraction is not certain.

Ready

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	AM29LV400B8-1205C AM0BC 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 Customer Part Number	U/M	Quantity	Unit price	Extended Price
1.001	MSM990029-001LS 15800051-000	EA	1200	17.9500	21,540.00 21,540.00
2.000	FREIGHT	EA	1	13.4200	13.42 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 application window. The main window has a menu bar (File, View, Go, Project, Tools, Help) and a toolbar. The left sidebar contains sections for 'My Knowledge' (Knowledge Groups, Tasks, Details), 'My New Samples', and 'Testing'. The main area shows a 'Knowledge Bases' table with columns: Name, Protection, Last Modified, Sample ..., Type, Algorithm, and Owner. Three rows are visible, all checked with a green box icon.

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 ...

Overlaid on the main window is a 'Create Knowledge Base' dialog box. It includes a 'Selected training folders' list with '<Default> (11)' selected, a 'Path' field with 'C:\Program Files\Kofax\Transformation\Proje', and a 'Create with password protection' checkbox. Below these are sections for 'Knowledge Base Types' (Amount Group, Invoice Group, Order Group) and 'Knowledge Base Algorithm' (Generic, Specific). The 'Knowledge Base Information' section has fields for Name (knowledgebase1), Description, and 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	TOTAL
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, PLEASE CONTACT: THE CREDIT DEPARTMENT @ (949) 470-3563				21.90
WAYBILL NUMBERS 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

XDoc Browser

The XDoc Browser provides direct access to the results of automatic processing on a document-by-document basis. It may be used for testing and demonstration.

The screenshot shows the XDoc Browser interface for a document named '000001FF.xdc'. The left pane displays a tree view of the document structure, including 'CompoundDocument', 'Pages', 'Representations', and 'TextLines'. The 'WordsOfLine' section is expanded, showing a list of words from the document.

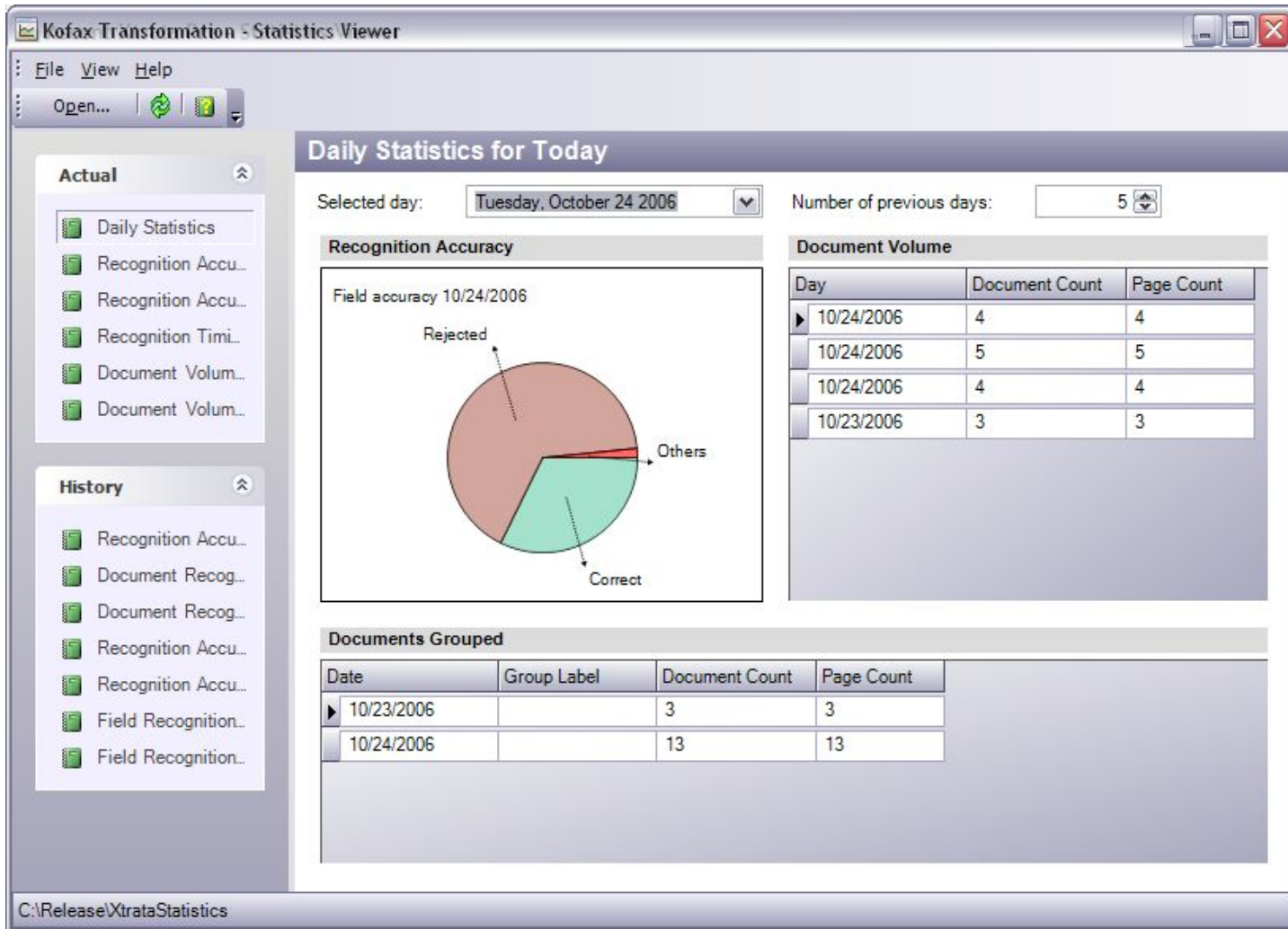
The main pane displays an invoice from Dki Semiconductor. The invoice includes the following information:

- Header:** 785 NORTH MARY AVENUE • SUNNYVALE, CA 94085-2909 • PHONE (408) 720-1900
- Invoice No.:** 36526 *
- Invoice Date:** 12/09/02
- Ship To:** 202180 KOFAX IMAGE PRODUCTS, INC. 16245 LAGUNA CANYON ROAD IRVINE CA 92618-3603
- Bill To:** 195514 KOFAX IMAGE PRODUCTS, INC. ACCOUNTS PAYABLE DEPT. 16245 LAGUNA CANYON ROAD IRVINE CA 92618-3603
- Customer PO No.:** 20026193
- Terms:** NET THIRTY DAYS
- FOB:** FOB SHIPPING
- Ref No.:** 1031KOFAX IMAGE PRODUCTS
- Reference Spool No.:**

ITEM NO.	PART NUMBER	CUSTOMER PART NO.	UOM	QUANTITY	UNIT PRICE	EXTENSION
1.001	MSM99Q029-001LS	15800051-000	EA	1200	-17.9500	21,540.00 USD

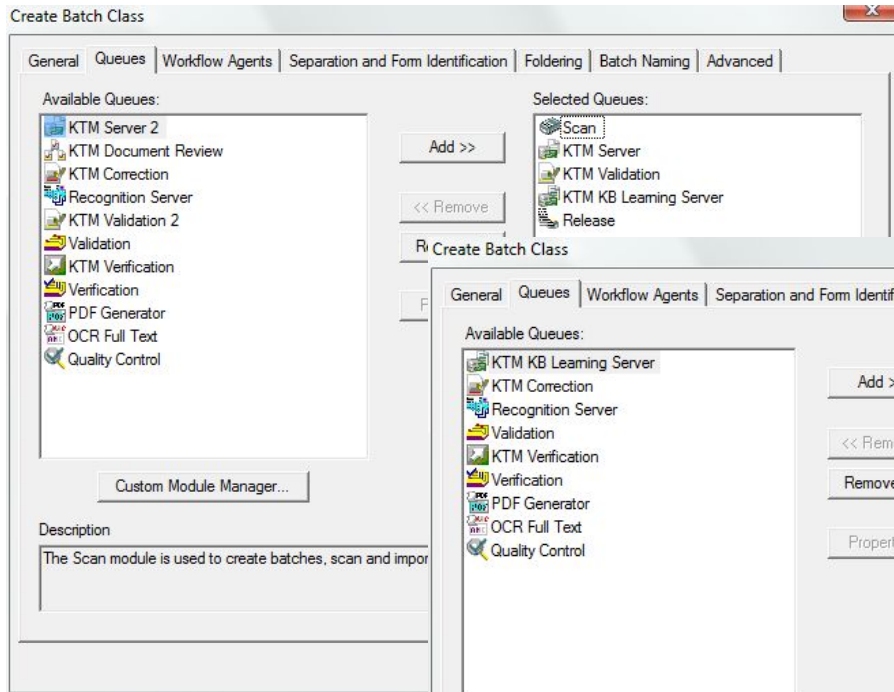
The invoice also features a 'RECEIVED DEC 12 2002' stamp and a 'SUB TOTAL' of 21,540.00 USD. The amount due is also listed as 21,540.00 USD.

Statistics Viewer

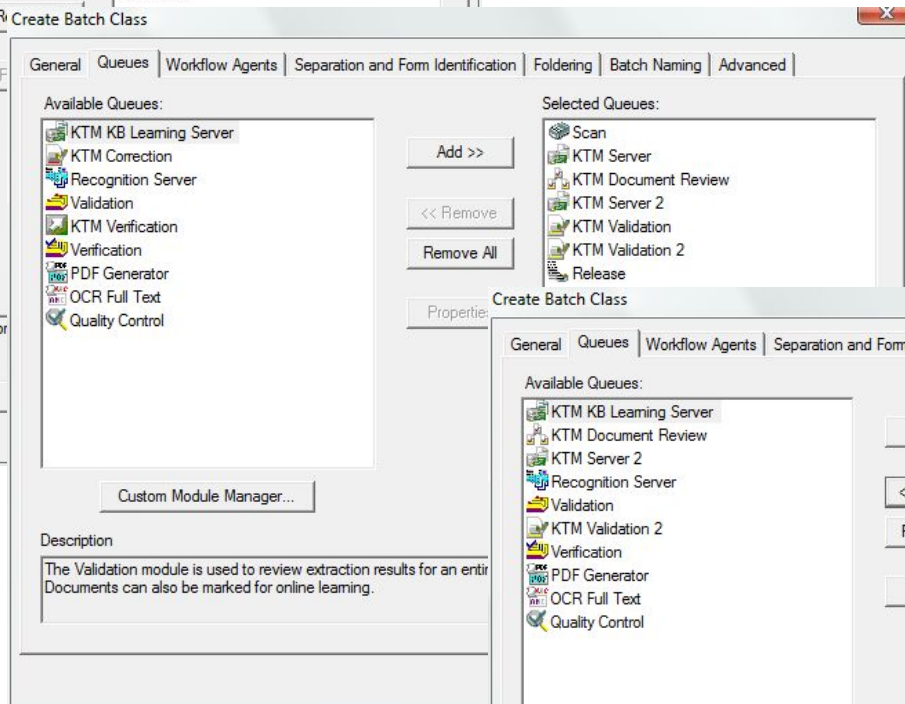


The Statistics Viewer allows you to view summary statistics of the results of automatic processing as you set up and modify your projects.

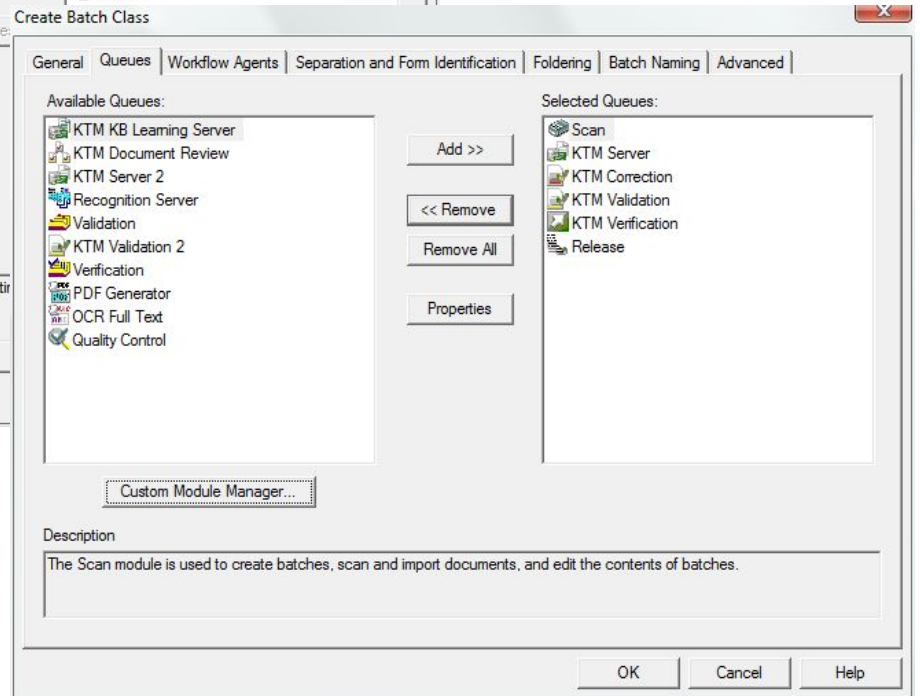
Kofax Capture Batch Workflow



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. It features a 'Classification Project' table, a 'Kofax Capture Document Classes' tree, and a 'Synchronize' button. A 'Next Step' button is highlighted, indicating the current step in the process.

Project	Kofax Capture Form Type
Invoice	FT_Invoice
Continental Express	FT_Continental Express
Dell	FT_Dell
FedEx	FT_FedEx
Oki	FT_Oki
Pinpoint	FT_Pinpoint

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

For Help, press F1

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

KOFAX Transformation Modules 5

in ACTION

