

Collect

Invoice Date

> Content Models / Invoices / **(data model)**

1. Right click and select `Contents > Add Multiple Items...`.
2. In the `Contents • Add Multiple Items` window, change the following property values:

Property	Default Value	New Value
General		
Item Names	-	<code>Invoice Number</code> <code>PO Number</code> <code>Invoice Date</code> <code>Freight</code> <code>Sales Tax</code> <code>Discount</code> <code>Invoice Amount</code> <code>Payment Terms</code> <code>Ship To</code> <code>Remit To</code>

3. Press `Execute`.

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Model Extraction Testing Scripting Contents Advanced

General
Show Content Type False
Description

Multi-Level Display
Show Level Header True
Level Header Alignment MiddleLeft
Level Header Background Color Control
Level Header Foreground Color ControlText
Regular

Child Element Options
Creates multiple items as children of the selected object.

Appearance
Background Color Control

Data Model
Defines the data elements for a content type.

Remarks
A Data Model is a hierarchy of [Data Section](#), [Data Field](#), [Data Table](#), and [Data Column](#) objects which define the internal data structure of a content type. A Data Model can be as simple as a list of fields (i.e. Invoice Date, Invoice Number, Invoice Amount, and PO Number), or can be a complex hierarchy of sections, tables, and columns.

Batch: Invoices

Data Model Preview

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice
Page 1 / 01

BB To:
Gropper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Our Reference
Date : 11/14/2008
Invoice number : 74461405
Customer contact :
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5819618
Freight carrier :
Tracking number : 122568890301034108

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Model Extraction Testing Scripting Contents Advanced

Contents • Add Multiple Items

Execute **Cancel**

General
Item Type **Item Names**
0 entries

Invoice Number
PO Number
Invoice Date
Freight
Sales Tax
Discount
Invoice Amount
Payment Terms
Ship To
Remit To

Item Names
Type: String
The names of the child items to create.

Remarks
For each name provided in the list, a child item of the specified Item Type will be created.

Data Model Preview

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice
Page 1 / 01

BB To:
Gropper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Our Reference
Date : 11/14/2008
Invoice number : 74461405
Customer contact :
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5819618
Freight carrier :
Tracking number : 122568890301034108

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Data Model

General

- Show Content Type: False
- Description:

Multi-Level Display

- Show Level Header: True
- Level Header Alignment: MiddleLeft
- Level Header Background Color: Control
- Level Header Foreground Color: ControlText
- Level Header Font Style: Regular

Child Element Options

- Child Label Width: 100
- Show Fields In Grid: False

Appearance

- Background Color: Control

Data Model

Defines the data elements for a content type.

Remarks

A Data Model is a hierarchy of [Data Section](#), [Data Field](#), [Data Table](#), and [Data Column](#) objects which define the internal data structure of a content type. A Data Model can be as simple as a list of fields (i.e. Invoice Date, Invoice Number, Invoice Amount, and PO Number), or can be a complex hierarchy of sections, batches, and tables.

Batch: Invoices

Invoice Number
PO Number
Invoice Date
Freight
Sales Tax

Document View Text View Instance View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice
BB To:
Gropper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Our Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5519618
Freight center :
Tracking number : 1234567890301034108

Scale: 19 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

> Content Models / Invoices / **(local resources)**

1. Right click and select **Add > Folder...**
2. Name it **Extractors**

File Edit Tools Help

ACE Architect 02

Content Models

Invoices

(local resources)

Add

- Rename F2
- Clone Ctrl+Shift+C
- Delete Del

Contents

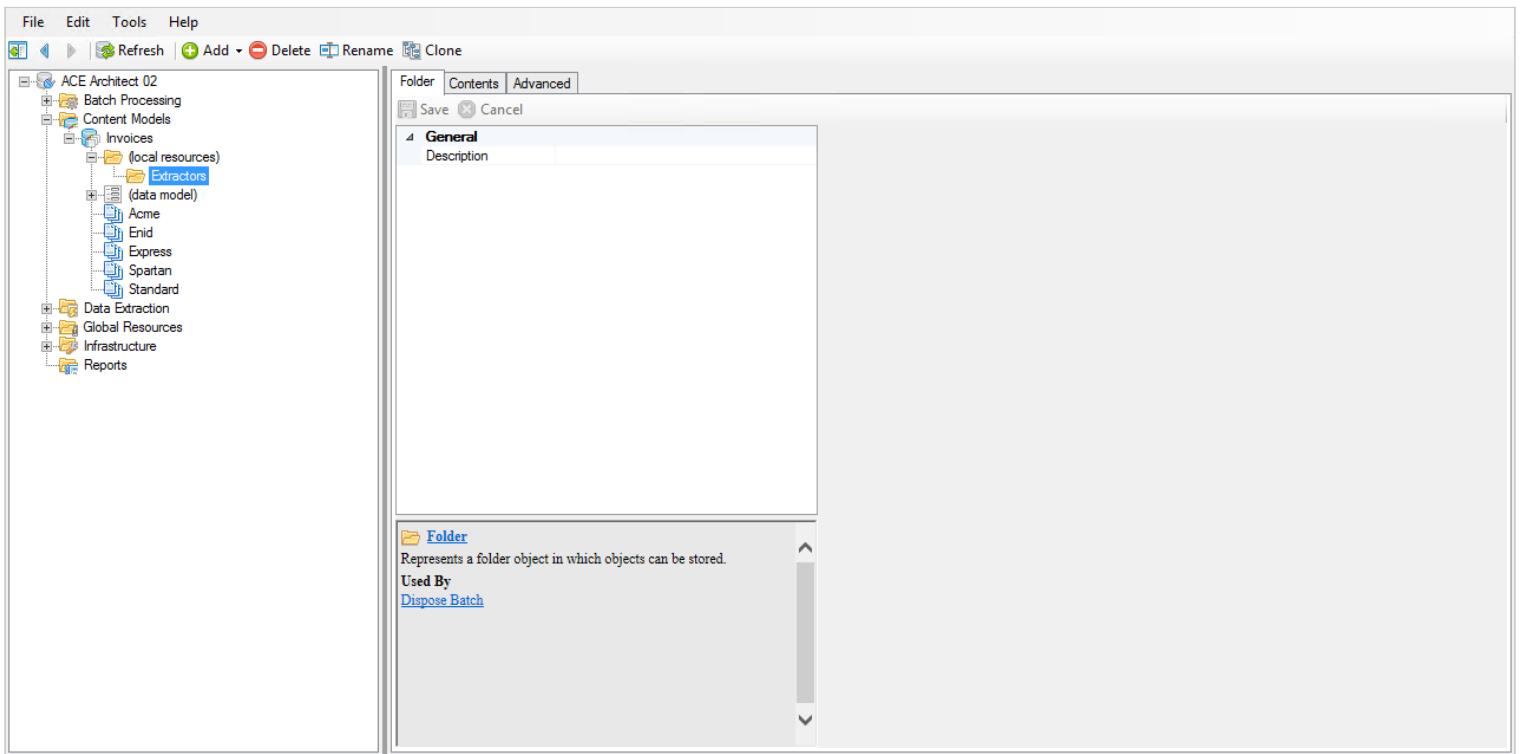
- Cut Ctrl+X
- Copy Ctrl+C
- Paste Ctrl+V
- Refresh F5

Folder

Represents a folder object in which objects can be stored.

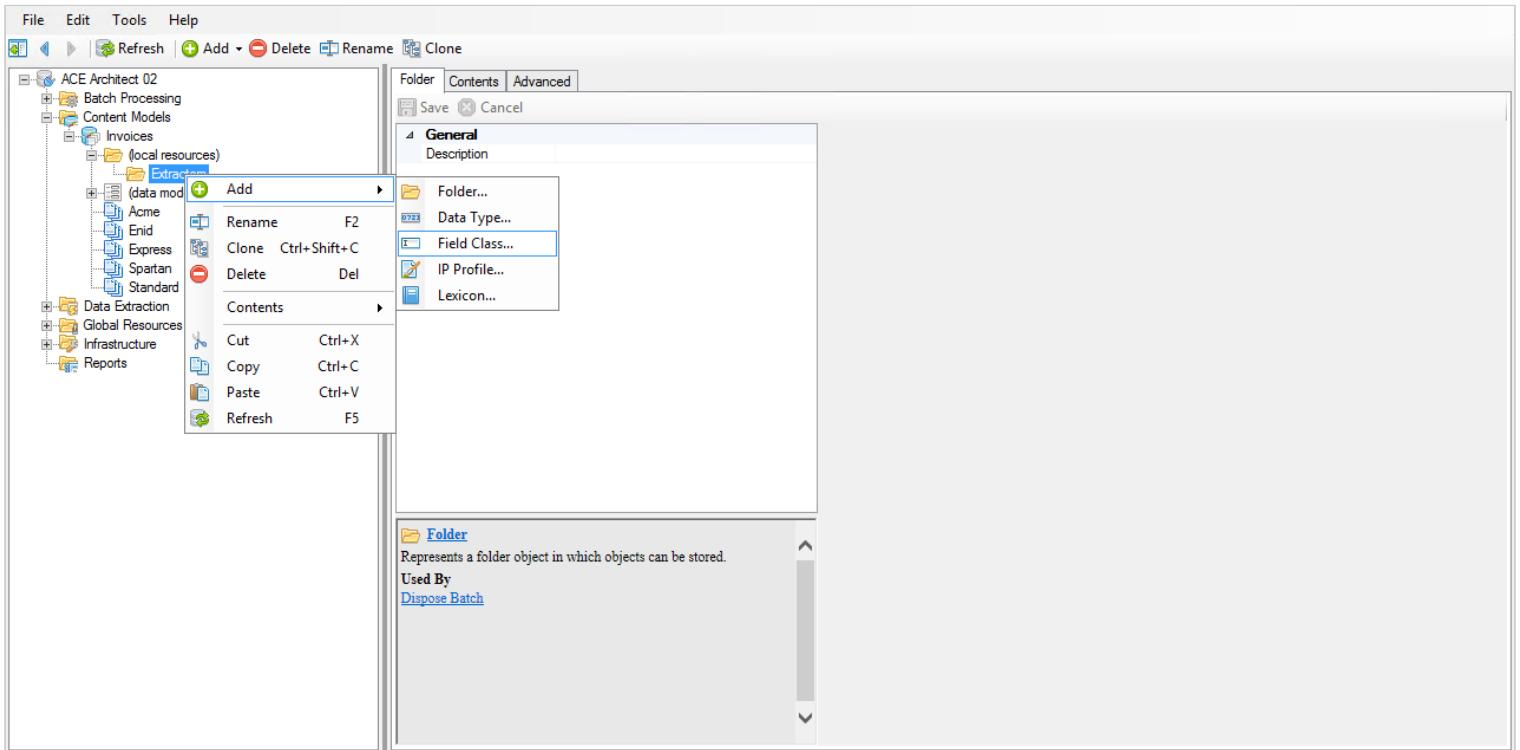
Used By

Dispose Batch



> Content Models / Invoices / (local resources) / Extractors

1. Right click and select Add > Field Class...
2. Name it Invoice Date



File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

- Value Type String
- Value Extractor (empty)
- Feature Extractor (empty)
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0%
- Use Class Frequency False
- Sublinear TF Scaling False
- Smooth IDF True

Field Class

Batch: Invoices

Image View Text View

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943

Scale: 28 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0 | Language:

Feature	Count	CWF	CTC	CF	TF	IDF	Weight

> Content Models / Invoices / (local resources) / Extractors / **Invoice Date**

Change the following property values:

Property	Default Value	New Value
General		
Value Extractor		
Type	none	Reference
Referenced Extractor	-	Date

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
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 - Invoice Date
 - (data model)
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 - Standard
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- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

0 results in 0 ms

General

Value Type String
Value Extractor Date
Type Reference
Referenced Extract Date

(none)
Extractors • Invoice Date
Invoices • (local resources)
ACE Architect 02 • Content Models
Data Extraction • Data Types
Downloads
Base Types

- Address
- Credit Card Number
- Currency
- Date
- E-Mail Address
- FEI/EIN Number
- Field Label
- Name
- Page Number
- Percentage
- Phone No
- SSN
- VIN

Base Types (Fuzzy)
Features
FieldSense™
Training Materials
Data Extraction • Field Classes

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number : 201017081
Customer number : 18003405
Customer contact :

Our Reference

Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943

Scale: 28 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

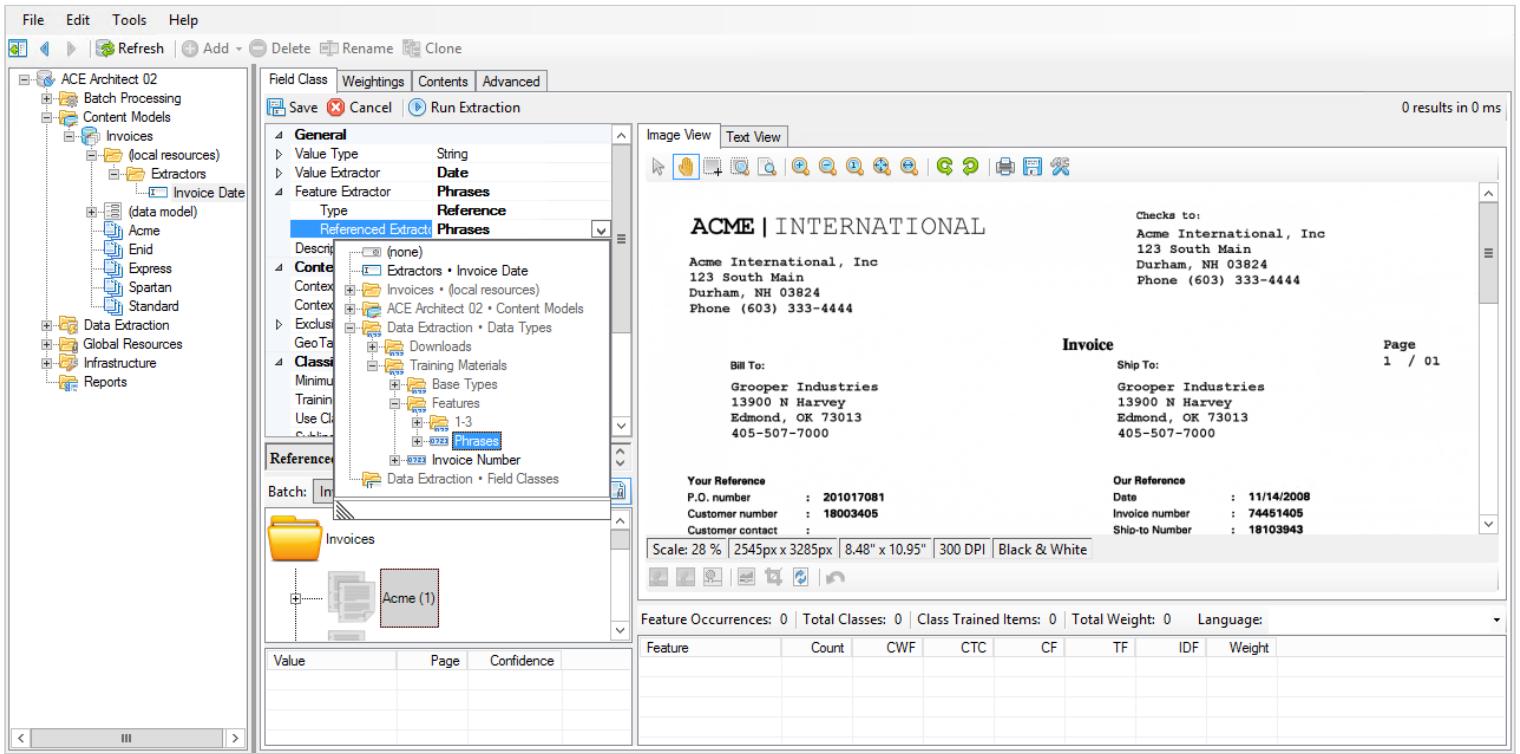
Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0 | Language:

Feature	Count	CWF	CTC	CF	TF	IDF	Weight

> Content Models / Invoices / (local resources) / Extractors / **Invoice Date**

Change the following property values:

Property	Default Value	New Value
General		
Feature Extractor		
Type	none	Reference
Referenced Extractor	-	Phrases



> Content Models / Invoices / (local resources) / Extractors / **Invoice Date**

1. Select Acme (1)
2. Press Run Extraction
3. In the candidate list, right click on the **11/14/2008** value and select Train As Positive

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

1 results in 748 ms

General

- Value Type String
- Value Extractor Date Reference
- Type Reference
- Referenced Extract Date
- Feature Extractor Phrases Reference
- Type Phrases
- Referenced Extract Phrases
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0.0

Feature Extractor

Batch: Invoices

Invoices

Acme (1)

Scale: 28% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
11/14/2008	1	0	1.000000	1.000000	1.000000

Value Page Confidence

11/14/2008 1 Train As Positive F3

Train As Negative

Inspect Instance...

Image View Text View

123 South Main
Durham, NH 03824
Phone (603) 333-4444

Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565E90301034108

> Content Models / Invoices / (local resources) / Extractors / **Invoice Date**

1. Select Standard (2)
2. Select both of the **11/11/2008** candidates that have correct features
3. Right click on either of them and select **Train As Positive**

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - (data model)
 - Acme
 - Enid
 - Express
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 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

PAGE 1 OF 1

STANDARD

Products
19658 South Frisk
Oklahoma City, OK 73102

SHIP TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

BILL TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

ORIGINAL INVOICE

ACCOUNT NUMBER	872864830
INVOICE NUMBER	9777062473
INVOICE DATE	11/11/2008
DUE DATE	12/11/2008
AMOUNT DUE	\$1.17
PO NUMBER:	209001161

THANK YOU!

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-877-202-2594

Scale: 28% | 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

Feature Occurrences: 2 | Total Classes: 1 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
invoice date	1	0	0.500000	1.000000	0.500000
date	1	1	0.500000	1.000000	0.500000

> Content Models / Invoices / (local resources) / Extractors / **Invoice Date**

1. Select Express (3)
2. Right click on the 12/2/2008 candidate with 58.1689% confidence and select Train As Positive

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

PAGE 1 OF 1

EXPRESS

Dallas, TX

INVOICE

Invoice Number: 16862865

Invoice Date: 12/2/2008

Purchase Order: 710015038

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice Total: \$216.80

Date Due: 1/1/2009

Mail Payment To: Express Manufacturing
12333 N Dallas Tollway
Dallas, TX 75032

You may deduct \$4.34 if paid on or before 12/12/08.

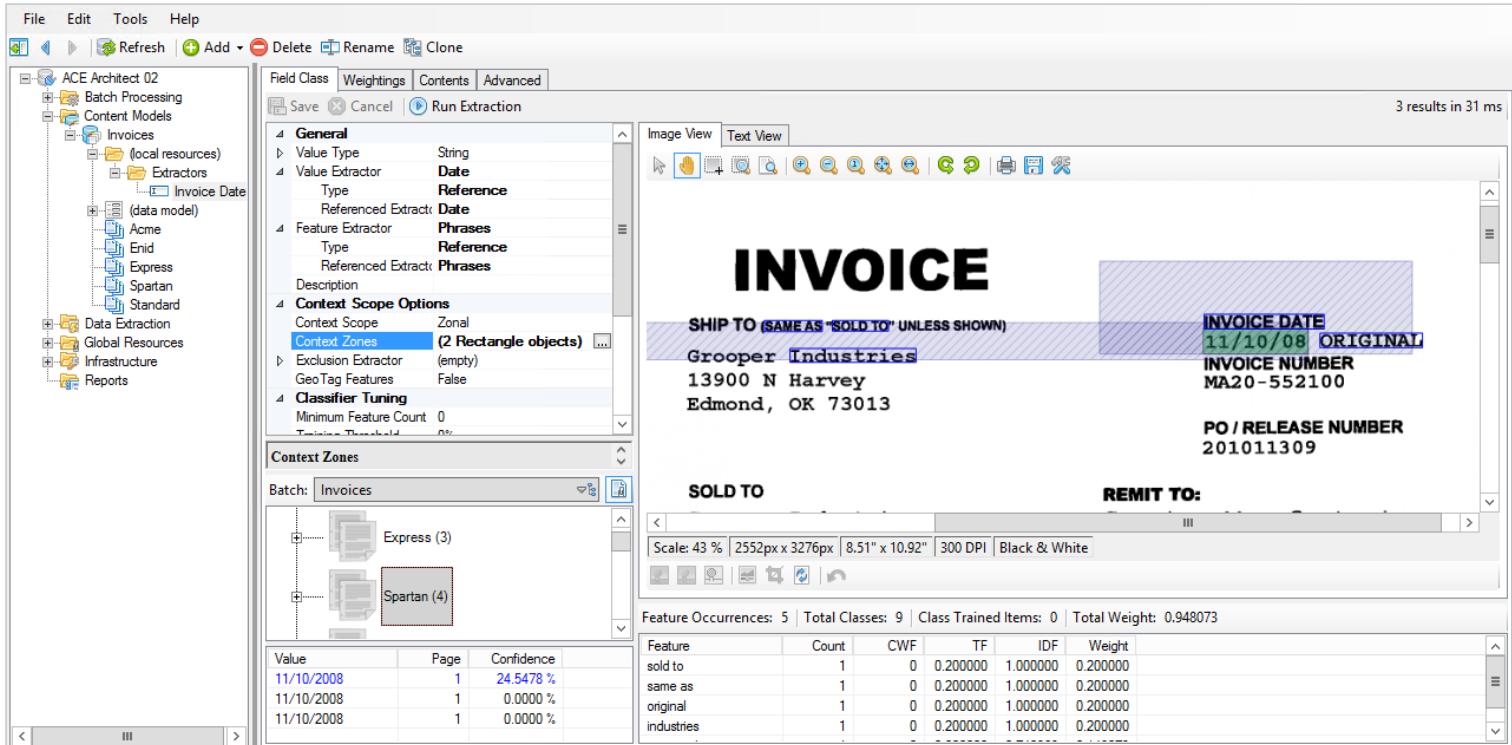
Shipped To:
Grooper Industries

Scale: 28% | 2498px x 3285px | 8.33" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 5 | Class Trained Items: 0 | Total Weight: 0.778151

Feature	Count	CWF	TF	IDF	Weight
date	1	1	1.000000	0.778151	0.778151

1. Select Spartan (4)
2. In the **Context Zone Options** section, click to edit the **Context Zones**



1. In the Context Zones window, edit the dimensions as follows:

Property	Zone 1	Zone 2
Left	-3.278	-0.67
Top	-0.054	-0.67
Right	0.312	0.5
Bottom	0.054	0.04

1. Press **OK**.

The screenshot shows the ACE Architect software interface. On the left is a navigation tree with nodes like 'ACE Architect 02', 'Content Models', 'Invoices', 'Extractors', 'Invoice Date', and 'Reports'. The main area has tabs for 'Field Class', 'Weightings', 'Contents', and 'Advanced'. A 'Run Extraction' button is visible. A 'Context Zones' dialog box is open in the center. It contains fields for 'Zone No', 'Region', 'Left', 'Top', 'Right', 'Bottom', 'Width', and 'Height'. The 'Zone 1' row is selected. To the right of the dialog is a preview of an invoice document with text like 'INVOICE DATE 11/10/08 ORIGINAL', 'INVOICE NUMBER MA20-552100', and 'PO / RELEASE NUMBER 201011309'. At the bottom, there are tables for 'Feature Occurrences' and 'Feature' with various values.

Feature	Count	CWF	TF	IDF	Weight
sold to	1	0	0.200000	1.000000	0.200000
same as	1	0	0.200000	1.000000	0.200000
original	1	0	0.200000	1.000000	0.200000
industries	1	0	0.200000	1.000000	0.200000

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date (data model)
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Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

Context Zones

Zone No Region

Zone 1	(-3.278,-0.054):(0.312,0.054)
Zone 2	(-0.67,-0.37):(0.5,0.04)

Left -0.67
Top -0.37
Right 0.5
Bottom 0.04
Width 1.17
Height 0.41

INVOICE DATE
11/10/08 ORIGINAL
INVOICE NUMBER
MA20-552100

PO / RELEASE NUMBER
201011309

Feature Occurrences: 5 | Total Classes: 9 | Class Trained Items: 0 | Total Weight: 0.948073

Feature Count CWF TF IDF Weight

sold to	1	0	0.200000	1.000000	0.200000
same as	1	0	0.200000	1.000000	0.200000
original	1	0	0.200000	1.000000	0.200000
industries	1	0	0.200000	1.000000	0.200000

> Content Models / Invoices / (local resources) / Extractors / **Invoice Date**

1. Select Enid (5)
2. In the Output section, set the Minimum Confidence property to 70%

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

Context Scope Options

Context Scope Zonal
Context Zones (2 Rectangle objects)

Exclusion Extractor (empty)

GeoTag Features False

Classifier Tuning

Minimum Feature Count 0
Training Threshold 0%
Use Class Frequency False
Sublinear TF Scaling False
Smooth IDF True

Output

Minimum Confidence 0%
Collation Method Individual
Order By Confidence
Direction Descending

Minimum Confidence

Batch: Invoices

Spandan (4)

Enid (5)

INVOICE

Enid Parts

INVOICE DATE: 12-05-08 INVOICE #: CSI/10076138 PAGE: 1

PH: (405) 555-1212 FAX: (405) 444-2121

REMIT TO:
Enid Parts
506 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

SHIP Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100040755	11-11-08	000001410	0000000000	0000000000	FAX	12-03-08	Net 30

Scale: 28 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 9 | Class Trained Items: 0 | Total Weight: 0.740363

Feature Count CWF TF IDF Weight

invoice date	1	2	1.000000	0.740363	0.740363
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File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 1 results in 17 ms

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0%
- Use Class Frequency False
- Sublinear TF Scaling False
- Smooth IDF True

Output

- Minimum Confidence 70%
- Collation Method Individual
- Order By Confidence
- Direction Descending

Minimum Confidence

Batch: Invoices

Value Page Confidence

12/5/2008 1 70.7107 %

Image View Text View

Enid Parts

INVOICE

INVOICE DATE	12-05-08	INVOICE #	CSI/10076138	PAGE	1
--------------	----------	-----------	--------------	------	---

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

SHIP Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100040755	11-11-08	00001410	000225	010012704	FED	12-03-08	Net 30

Scale: 28 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 9 | Class Trained Items: 0 | Total Weight: 0.740363

Feature	Count	CWF	TF	IDF	Weight
invoice date	1	2	1.000000	0.740363	0.740363

> Content Models / Invoices / (data model) / **Invoice Date**

Change the following property values:

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	Invoice Date
Behavior		
Required	False	True

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field | Contents | Advanced | Save | Cancel | Test Extraction

General

- Value Type: String
- Value Extractor: (empty)
- Minimum Confidence: 20%
- Sub-Element Name:
- Description:

Appearance

- Alignment: Left
- Display Width: 100
- Error Color: 255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True

Label Position: Left Top

Data Field
Represents a field.

Remarks
Fields can have children of [Data Model](#) or [Data Section](#) objects. Field objects define characteristics such as:

- The appearance of the item in the [Index Panel](#).
- The default ESPTM Extraction settings. These settings can be overridden on individual

Batch: Invoices

Invoice Date Data Field Preview

Document View | **Text View** | **Instance View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Purchase number : 0014816

Scale: 21% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
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 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field | Contents | Advanced | Save | Cancel | Test Extraction

General

- Value Type: String
- Value Extractor: **Referenced Extractor**
- Type: **Referenced Extractor**
- Minimum Confidence:
- Sub-Element Name:
- Description:

Appearance

- Alignment:
- Display Width:
- Error Color:
- Background Color:
- Foreground Color:
- Visible:

Referenced Extractor
Type: Grooper Node
When Type is set to 'Reference', specifies the

Property Type: Grooper Node
Grooper Nodes are objects which appear in the Grooper Tree Structure. Every object at every level of the tree structure, including folders, are considered Grooper Nodes. All Grooper Node objects support a base set of properties and behaviors common to all node types, such as:

Batch: Invoices

Invoice Date Data Field Preview

Document View | **Text View** | **Instance View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

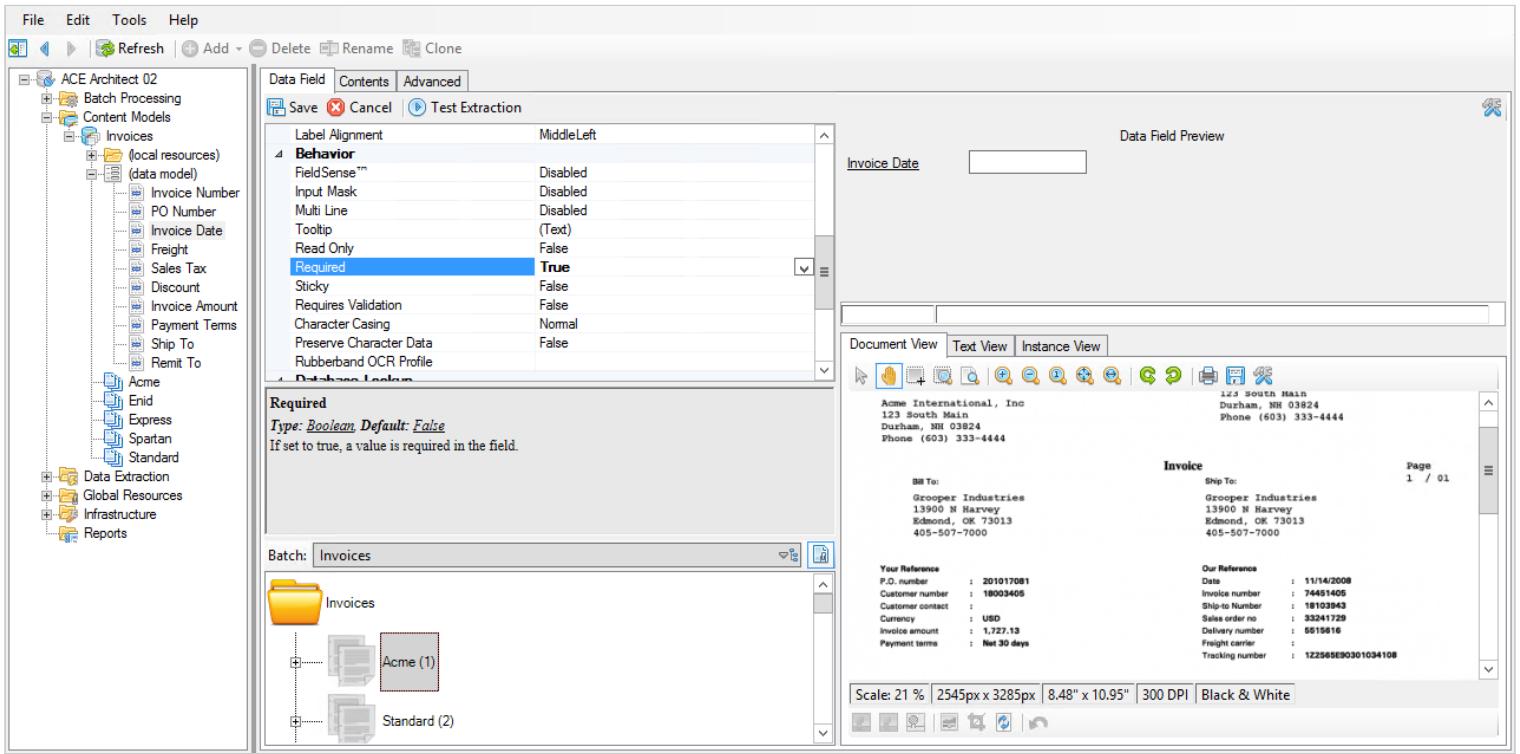
Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Purchase number : 0014816

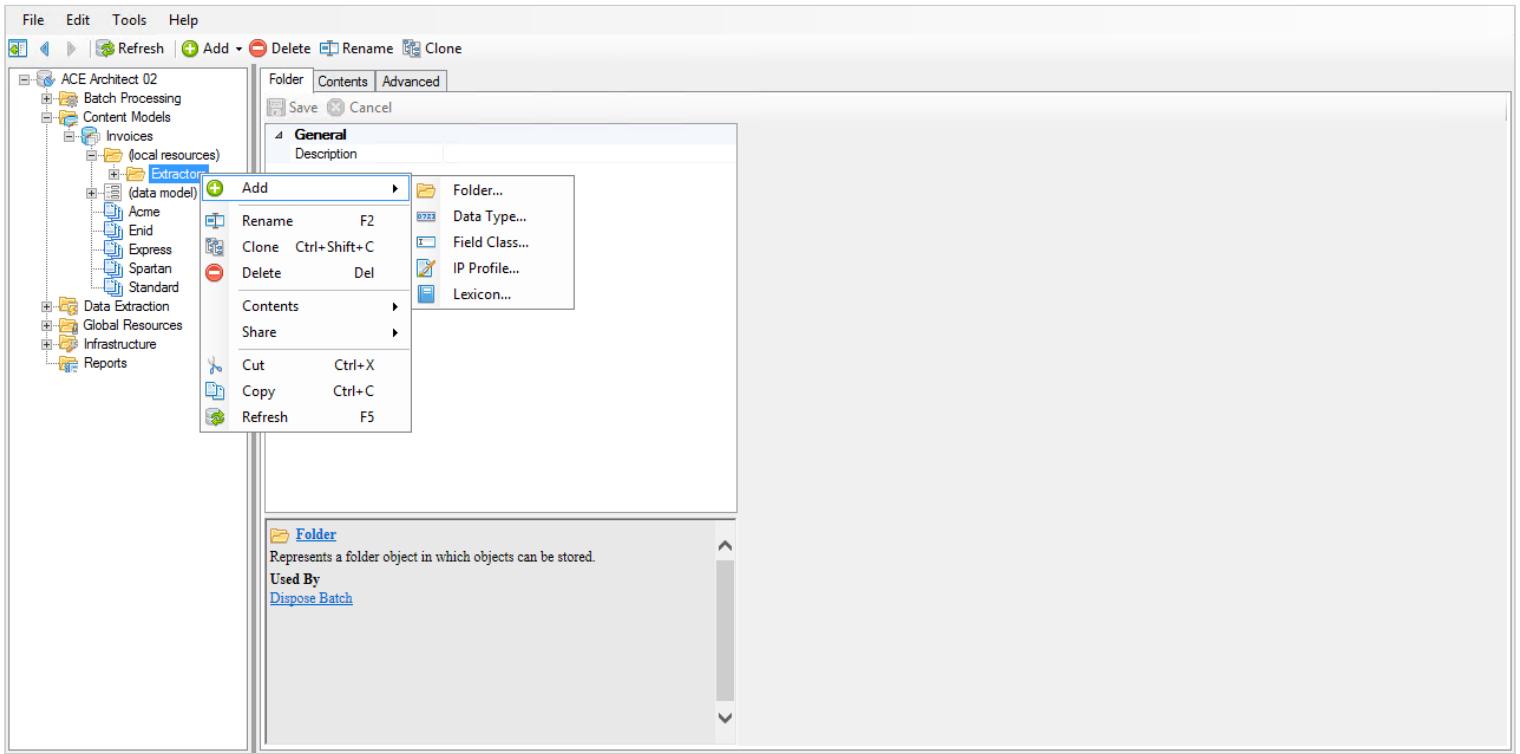
Scale: 21% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White



Ship To

> Content Models / Invoices / (local resources) / Extractors

1. Right click and select Add > Field Class...
2. Name it Ship To



This screenshot shows the 'Field Class' dialog for the 'Ship To' extractor. The 'General' tab is selected, showing the Value Type as String, Value Extractor as '(empty)', Feature Extractor as '(empty)', and a Description field. Under 'Context Scope Options', the Context Scope is set to Zonal and the Context Zones are listed as '(2 Rectangle objects)'. The 'Classifier Tuning' section includes settings for Minimum Feature Count (0), Training Threshold (0%), Use Class Frequency (False), Sublinear TF Scaling (False), and Smooth IDF (True). The 'Field Class' tab is also visible, showing a batch named 'Invoices' containing an 'Invoices' folder with an 'Acme (1)' feature. The right side of the dialog displays the extracted data for 'ACME | INTERNATIONAL' and 'Grooper Industries', including address details, bill-to information, and various reference and scale settings.

> Content Models / Invoices / (local resources) / Extractors / **Ship To**

1. Right click and select Add > Data Type...
2. Name it [Features] Ship To

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - Ship To
- (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943

Scale: 28 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0 | Language: English

Feature **Count** **CWF** **CTC** **CF** **TF** **IDF** **Weight**

Value Page Confidence

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - Ship To
- (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943

Scale: 25 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0 | Language: English

Feature **Count** **CWF** **CTC** **CF** **TF** **IDF** **Weight**

Value Confidence Page No Index Length Extractor

Batch: Invoices

Data Type

Batch: Invoices

1. In the Data Extraction section, click to edit the Pattern .

2. Edit the pattern(s):

Value Pattern

```
ship to|shipped to|ship
```

Output Format

3. Press OK .

File Edit Tools Help

Refresh Add Delete Rename Clone

Data Type Scripting Contents Advanced

Save Cancel Run Extraction 0 results in 0 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern** (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation Individual
- Order By Position
- Direction Ascending (empty)
- Result Filter (empty)

Deduplication

- Duplicate Locations False
- Duplicate Values False

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Chinanumber : 18103405

Scale: 25 % 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

Batch: Invoices

Invoices

Acme (1)

Standard (2)

Value	Confidence	Page No.	Index	Length	Extractor

OK Cancel

Pattern Editor Properties

Value Pattern

1 ship-to|shipped-to|ship

Look Ahead Pattern

1

Look Behind Pattern

1

Output Format

ship to
OK: ship to|shipped to|ship

Batch: Invoices

- Invoices (1)
- Standard (2)
- Express (3)
- Spartan (4)

Image Text

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	

Scale: 34 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Results (2)

	Confidence	Page No	Index	Length
ship to	100 %	1	222	7
ship to	100 %	1	500	4

> Content Models / Invoices / (local resources) / Extractors / **Ship To**

Change the following property values:

Property	Default Value	New Value
General		
Value Extractor		
Type	none	Reference
Referenced Extractor	-	Address

The screenshot displays the ACE Architect 02 software interface, specifically the 'Field Class' configuration screen.

Left Panel: Shows the project structure under 'ACE Architect 02' > 'Batch Processing' > 'Content Models' > 'Invoices' (local resources) > Extractors > 'Invoice Date' > 'Ship To'. Other sections like 'Data Extraction', 'Global Resources', 'Infrastructure', and 'Reports' are also visible.

Top Bar: Includes standard menu items (File, Edit, Tools, Help), a toolbar with icons for Refresh, Add, Delete, Rename, and Clone, and tabs for 'Field Class', 'Weightings', 'Contents', and 'Advanced'.

Central Configuration Area: The 'Field Class' tab is selected. It contains sections for 'General' (Value Type: String, Value Extractor: empty, Feature Extractor: empty, Description: empty), 'Context Scope Options' (Context Scope: Zonal, Context Zones: (2 Rectangle objects), Exclusion Extractor: empty, GeoTag Features: False), and 'Classifier Tuning' (Minimum Feature Count: 0, Training Threshold: 0%, Use Class Frequency: False, Sublinear TF Scaling: False, Smooth IDF: True). A 'Save' button is at the top right.

Right Side Preview and Reporting:

- Image View:** Shows a preview of the extracted data for 'ACME | INTERNATIONAL'.
- Text View:** Displays the extracted data in a structured format:
 - Checks to:** Acme International, Inc, 123 South Main, Durham, NH 03824, Phone (603) 333-4444
 - Invoice:** Bill To: Grooper Industries, 13900 N Harvey, Edmond, OK 73013, Ship To: Grooper Industries, 13900 N Harvey, Edmond, OK 73013, 405-507-7000
- Page:** 1 / 01
- Your Reference:** P.O. number : 201017081, Customer number : 18003405, Customer contact : , Currency : USD
- Our Reference:** Date : 11/14/2008, Invoice number : 74451405, Ship-to Number : 18103943, Sales order no : 33241729
- Scale:** 26 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White
- Feature Occurrences:** 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0
- Feature Statistics Table:** A grid showing columns for Feature, Count, CWF, CTC, CF, TF, IDF, and Weight.

The screenshot shows the ACE Architect 02 application interface. The left sidebar displays a tree view of project components: ACE Architect 02, Batch Processing, Content Models (Invoices, Extractors, Invoice Date, Ship To), (data model) (Acme, Enid, Express, Spartan, Standard), Data Extraction, Global Resources, Infrastructure, and Reports. The main workspace is titled 'Field Class' and contains tabs for 'Save', 'Cancel', and 'Run Extraction'. A large tree view on the left lists various field types and their configurations, such as 'Value Type String', 'Value Extractor Address Reference', and 'Feature (none)'. Below this is a 'Batch' section with a folder icon labeled 'Invoices' containing an item 'Acme (1)'. The central area features an 'Image View' tab showing a preview of an invoice document for 'ACME | INTERNATIONAL' with details for 'Acme International, Inc' and 'Grooper Industries'. An 'Invoice' tab shows the same document with 'Ship To' information. The right side of the interface includes a 'Checks to:' section listing 'Acme International, Inc' with address and phone number, and a 'Page' indicator showing '1 / 01'. At the bottom, there are status bars for 'Scale: 26 %' and 'Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0', and a table for 'Feature' analysis.

Change the following property values:

Property	Default Value	New Value
General		
Feature Extractor		
Type	none	Reference
Referenced Extractor	-	[Features] Ship To

The screenshot shows the ACE Architect 02 application interface. On the left, a tree view displays project structure under 'ACE Architect 02' including 'Batch Processing', 'Content Models', 'Invoices' (with 'local resources' and 'Extractors' sub-folders), '(data model)' (with 'Acme', 'Enid', 'Express', 'Spartan', 'Standard' sub-folders), 'Data Extraction', 'Global Resources', 'Infrastructure', and 'Reports'. The main workspace has tabs for 'Field Class', 'Weightings', 'Contents', and 'Advanced'. A toolbar at the top includes 'Save', 'Cancel', and 'Run Extraction' buttons. The 'Field Class' tab is active, showing a configuration pane with sections like 'General', 'Value Type' (String), 'Value Extractor' (Address Reference), 'Feature Extractor' ([Features] Ship To Reference), and 'Referenced Extract' ([Features] Ship To). Below this is a 'Context' section with 'Extractor' and 'Ship To' options. A dropdown menu is open over the 'Extractor' field, showing 'Invoices * (local resources)' as the selected item. The right side of the screen shows a preview of a document titled 'ACME | INTERNATIONAL' with details for 'Acme International, Inc' and 'Grooper Industries'. It also shows an 'Invoice' section with 'Bill To' and 'Ship To' addresses. At the bottom, there's a status bar with 'Scale: 26 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White' and a feature occurrence summary: 'Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0'. A table at the bottom lists features with columns for Value, Page, Confidence, Count, CWF, CTC, CF, TF, IDF, and Weight.

1. In the **Context Zone Options** section, click to edit the **Context Zones**.

2. In the **Context Zones** window, delete one of the zones.

3. For the remaining zone, edit the dimensions as follows:

Property	Zone
Left	-1.25
Top	-0.54
Right	0.73
Bottom	0.13

4. Press **OK**.

5. Press **Run Extraction**.

The screenshot shows the ACE Architect software interface with the following details:

- File Bar:** File, Edit, Tools, Help.
- Toolbar:** Refresh, Add, Delete, Rename, Clone.
- Left Sidebar:** ACE Architect 02, Batch Processing, Content Models, Invoices (selected), (local resources), Extractors, Invoice Date, Ship To, [Features] Ship To, (data model), Acme, Enid, Express, Spartan, Standard, Data Extraction, Global Resources, Infrastructure, Reports.
- Central Workarea:**
 - Field Class Tab:** General, Value Type (String), Value Extractor (Address), Feature Extractor ([Features] Ship To), Context Scope Options (Zonal), Context Zones (2 Rectangle objects...).
 - Contents Tab:** Shows 0 results in 0 ms.
 - Advanced Tab:** Save, Cancel, Run Extraction.
 - Image View:** Displays the extracted data for "ACME | INTERNATIONAL". It includes the address: Acme International, Inc, 123 South Main, Durham, NH 03824, Phone (603) 333-4444. Below it, the "Invoice" section shows the bill to: Grooper Industries, 13900 N Harvey, Edmond, OK 73013, 405-507-7000. The "Your Reference" section lists P.O. number: 201017081, Customer number: 18003405, Customer contact: , Currency: USD. The "Our Reference" section lists Date: 11/14/2008, Invoice number: 74451405, Ship-to Number: 18103843, Sales order no: 33241729.
 - Text View:** Displays the extracted data in a structured text format.
 - Context Zones:** Shows a list of zones: Invoices, Acme (1).
 - Value Table:** A table showing the extracted values for the "Acme (1)" zone.

The screenshot shows the ACE Architect 02 interface. On the left, the navigation tree includes 'ACE Architect 02', 'Batch Processing', 'Content Models' (selected), 'Invoices' (selected), '(local resources)', 'Extractors' (selected), 'Invoice Date', 'Ship To' (selected), and '[Features] Ship To'. Under 'Extractors', there are 'Extractors' (selected) and 'Ship To' (selected). Below 'Ship To' is a 'Value Type' dropdown set to 'String'.

In the center, a 'Field Class' dialog is open with tabs for 'Weightings', 'Contents', and 'Advanced'. The 'Advanced' tab is selected, showing 'General' settings: 'Value Type' (String), 'Value Extractor' (Address), 'Type' (Reference), and 'Address'.

A 'Context Zones' dialog is overlaid on the main window. It shows a table with one row: 'Zone No' (Zone 2) and 'Region' (-1.25,-0.54):(0.73,0.13). To the right of the table are coordinate values: Left (-1.25), Top (-0.54), Right (0.73), Bottom (0.13), Width (1.98), and Height (0.67).

On the right side of the interface, there is a preview area showing an invoice document with shipping information. The document includes fields like 'to: International, Inc', 'South Main', 'NH 03824', '(603) 333-4444', 'Industries', 'Harvey', 'OR 73013', '7000', 'Date: 11/14/2008', 'Number: 74451405', 'Number: 18103943', and 'no: 33241728'. A status bar at the bottom right says 'Page 1 / 01'.

> Content Models / Invoices / (local resources) / Extractors / **Ship To**

1. In the candidate list, find the value that has features that can be trained.
2. Right click on that value and select **Train As Positive**.
3. Change the following property value(s):

Property	Default Value	New Value
Output		
Minimum Confidence	0%	70%

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - Ship To
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241728

Scale: 26 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Context Zones

Batch: Invoices

Value Page Confidence

123 South M	Train As Positive	F3
13900 N Har	Train As Negative	
13900 N Har	Inspect Instance...	

Feature Occurrences: 1 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 1.000000

Feature Count CWF TF IDF Weight

ship to	1	0	1.000000	1.000000	1.000000
---------	---	---	----------	----------	----------

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - Ship To
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241728

Scale: 26 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Context Scope Options

Context Scope Zonal
Context Zones (1 Rectangle)

Classify Tuning

Minimum Feature Count 0
Training Threshold 0%
Use Class Frequency False
Sublinear TF Scaling False
Smooth IDF True

Output

Minimum Confidence **70%**
Collation Method Individual
Order By Confidence
Direction Descending

Minimum Confidence

Batch: Invoices

Value Page Confidence

13900 N Harvey, E...	1	100.0000 %
----------------------	---	------------

Feature Occurrences: 1 | Total Classes: 1 | Class Trained Items: 0 | Total Weight: 1.000000

Feature Count CWF TF IDF Weight

ship to	1	1	1.000000	1.000000	1.000000
---------	---	---	----------	----------	----------

> Content Models / Invoices / (data model) / **Ship To**

Change the following property values:

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	Ship To
Behavior		
Required	False	True

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

Data Field | Contents | Advanced | Save | Cancel | Test Extraction

General

- Value Type: String
- Value Extractor: (empty)
- Minimum Confidence: 20%
- Sub-Element Name:
- Description:

Appearance

- Alignment: Left
- Display Width: 100
- Error Color: #255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True
- Label Position:

Data Field

Represents a field.

Remarks

Fields can be children of [Data Model](#) or [Data Section](#) objects. Field objects define characteristics such as:

- The appearance of the item in the [Index Panel](#).
- The default ESP™ Extraction settings. These settings can be overridden on

Batch: Invoices

Ship To: [Empty Box]

Data Field Preview: [Empty Box]

Document View | Text View | Instance View

ACME | INTERNATIONAL

Billing To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice Page 1 / 01

Your Reference
P.O. number: 291017081
Customer number: 18003406
Customer contact: t
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/16/2008
Invoice number: 74451405
Ship-to Number: 18103943
Sales order no: 33241729
Delivery number: 6515616
Freight carrier:

Scale: 20% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

- Value Type String
- Value Extractor Type **Referenced Extractor**
- Minimum Confidence
- Sub-Element Name
- Description

Appearance

- Alignment
- Display Width
- Error Color
- Background Color
- Environment Colors

Referenced Extractor

Type: **Grooper Node**

When Type is set to 'Reference', specifies the node to extract from.

Property Type: **Grooper Node**

Grooper Nodes are objects which appear in the Grooper Tree Structure. Every object at every level of the tree structure, including folders, are considered Grooper Nodes. All Grooper Node objects support a base set of properties and behaviors common to all node types.

Batch: Invoices

Ship To

Data Field Preview

Document View Text View Instance View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Page 1 / 01

BB To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Our Reference

P.O. number	201017081	Date	11/16/2008
Customer number	18003405	Invoice number	74451405
Customer contact	18103943	Ship-to Number	18103943
Currency	USD	Sales order no	33241729
Invoice amount	1,727.13	Delivery number	6515616
Payment terms	Net 30 days	Freight carrier	

Scale: 20 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

Label Position Left

Label Alignment MiddleLeft

Behavior

- FieldSense™ Disabled
- Input Mask Disabled
- Multi Line Disabled
- Tooltip (Text)
- Read Only False
- Required** **True**
- Sticky False
- Requires Validation False
- Character Casing Normal
- Preserve Character Data False

Required

Type: Boolean, Default: False

If set to true, a value is required in the field.

Batch: Invoices

Ship To

Data Field Preview

Document View Text View Instance View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Page 1 / 01

BB To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Our Reference

P.O. number	201017081	Date	11/16/2008
Customer number	18003405	Invoice number	74451405
Customer contact	18103943	Ship-to Number	18103943
Currency	USD	Sales order no	33241729
Invoice amount	1,727.13	Delivery number	6515616
Payment terms	Net 30 days	Freight carrier	

Scale: 20 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Remit To

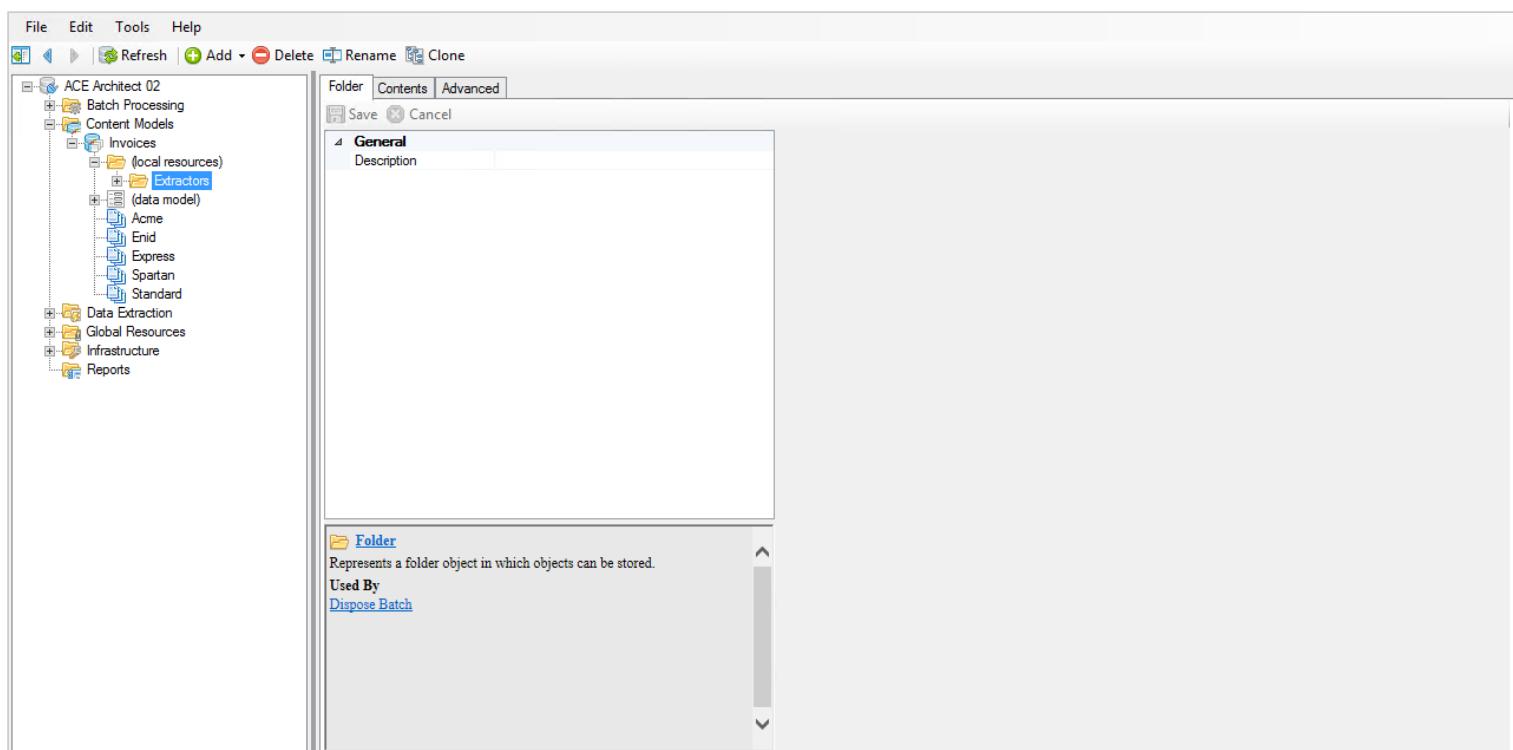
> Content Models / Invoices / (local resources) / Extractors

1. Right click and select Add > Field Class... .

2. Name it Remit To .

3. Change the following property values:

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor		Address



The screenshot shows the ACE Architect 02 application interface. The left sidebar displays a project structure:

- ACE Architect 02
- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - Remit To
 - Ship To
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

The main workspace contains several panels:

 - Field Class** tab: Shows settings for "Invoices".
 - General**: Value Type (String), Value Extractor (empty), Feature Extractor (empty), Description.
 - Context Scope Options**: Context Scope (Zonal), Context Zones (2 Rectangle objects), Exclusion Extractor (empty), GeoTag Features (False).
 - Classifier Tuning**: Minimum Feature Count (0), Training Threshold (0%), Use Class Frequency (False), Sublinear TF Scaling (False), Smooth IDF (True).
 - Image View** and **Text View** tabs: Preview of an extracted document titled "ACME | INTERNATIONAL". The document includes:
 - Checks to:** Acme International, Inc, 123 South Main, Durham, NH 03824, Phone (603) 333-4444
 - Invoice** section: Bill To: Grooper Industries, 13900 N Harvey, Edmond, OK 73013, Phone 405-507-7000
 - Ship To:** Grooper Industries, 13900 N Harvey, Edmond, OK 73013, Phone 405-507-7000
 - Page** indicator: 1 / 01
 - Field Class** panel: Batch: Invoices, showing a tree view with "Invoices" expanded to show "Acme (1)".
 - Feature Occurrences**: 0 | **Total Classes**: 0 | **Class Trained Items**: 0 | **Total Weight**: 0
 - Feature** table: A grid with columns: Value, Page, Confidence.

The screenshot shows the ACE Architect 02 application interface. On the left, a tree view displays project structure under 'ACE Architect 02' including 'Batch Processing', 'Content Models', 'Invoices' (with 'local resources' like 'Extractors', 'Invoice Date', 'Remit To', 'Ship To'), and other models like 'Acme', 'Enid', 'Express', 'Spartan', 'Standard'. A 'Data Extraction' folder is also present. The main workspace has tabs for 'Field Class', 'Weightings', 'Contents', and 'Advanced'. A toolbar includes 'Save', 'Cancel', and 'Run Extraction'. The 'Image View' tab is active, showing a scanned document for 'ACME | INTERNATIONAL' with address details: Acme International, Inc, 123 South Main, Durham, NH 03824, Phone (603) 333-4444. The 'Text View' tab shows extracted data for 'Bill To' (Grooper Industries, 13900 N Harvey, Edmond, OK 73013, 405-507-7000) and 'Ship To' (Grooper Industries, 13900 N Harvey, Edmond, OK 73013, 405-507-7000). Below the document, feature occurrences and class trained items are listed as 0. At the bottom, a table provides a summary of feature counts and weights.

Change the following property value(s):

Property	Default Value	New Value
General		
Feature Extractor		
Type	None	Internal
Pattern	(Click to edit)	(Click to edit)

The screenshot shows the ACE Architect 02 software interface. The left sidebar displays a tree view of project components: ACE Architect 02, Batch Processing, Content Models, Invoices (with local resources like Extractors, Invoice Date, Remit To, Ship To), Acme, Enid, Express, Spartan, Standard, Data Extraction, Global Resources, Infrastructure, and Reports. The main workspace has tabs for Field Class, Weightings, Contents, and Advanced, with Save, Cancel, and Run Extraction buttons. A 'General' configuration panel is open, showing settings for Value Type (String), Value Extractor (Address Reference, Referenced Extract Address), Feature Extractor (empty pattern, Internal Pattern), and Context Scope Options (Zonal, 2 Rectangle objects). Below this is a 'Pattern' panel showing a folder named 'Invoices' containing a single item 'Acme (1)'. The right side of the screen shows a document titled 'ACME | INTERNATIONAL' with address information for Acme International, Inc. and Grooper Industries. It also displays an 'Invoice' section with shipping details and a reference table comparing 'Your Reference' and 'Our Reference' fields. At the bottom, status bars show feature occurrences, total classes, trained items, total weight, and a feature table.

1. Edit the pattern(s):

Value Pattern
<code>remit to mail payment to checks to</code>
Output Format

2. Select Standard (2).

3. Click on the **Properties** tab.

4. Change the following property value(s):

Property	Default Value	New Value
General		
Mode	RegEx	FuzzyRegEx
Fuzzy Matching Options		
Fuzzy Match Weightings		
Local Entries	-	li=0.25

5. Press **OK** to close the List Editor.

6. Press **OK** to close the Pattern Editor.

OK Cancel

Pattern Editor Properties

Value Pattern

```
1 remit-to|mail-payment-to|checks-to
```

Look Ahead Pattern

```
1
```

Look Behind Pattern

```
1
```

Output Format

remit to
OK (3): remit to mail payment to checks to

Batch: Invoices

- Invoices
- Acme (1)
- Standard (2)
- Express (3)
- Spartan (4)

Image Text Fuzzy Extraction Visualizer

NUMBER OF PKGS: 0 WEIGHT 3.20
DATE SHIPPED: 11/11/2008
CARRIER: UPS GROUND REGIONAL
TRACKING NO: 1Z3018W70328242140

These items are sold for domestic consumption in the United States. If exported, purchaser assumes full responsibility for compliance with US export controls.

PAYMENT TERMS NET 30 DAYS. PAY THIS INVOICE NO STATEMENT SENT. PAYABLE IN U.S. DOLLARS.

AMOUNT DUE 51.17

REMIT TO:
Standard Products
19658 South Frisk
Oklahoma City, OK 73102
800-555-2121

ACCOUNT NUMBER DATE INVOICE NUMBER AMOUNT DUE

872864830977706247310000051171000029010000771100000008121148	X	ACCOUNT NUMBER	DATE	INVOICE NUMBER	AMOUNT DUE
Scale: 34 % 2545px x 3274px 8.49" x 10.91" 300 DPI Black & White					
Results (1)	Confidence	Page No	Index	Length	
remit to	97 %	1	1092	8	

OK Cancel

Pattern Editor Properties

General

- Value Type String
- Mode **FuzzyRegEx**
- Case Sensitive False
- Preprocessing Options (empty)
- Regional Settings (empty)
- Expression Lexicon (empty)
- Referenced Lexicons (empty)

Fuzzy Matching Options

- Minimum Similarity 90%
- Match Mode LeastCost
- Fuzzy Match Weightings (empty)

Regular Expression

Type: *ExtractionMode Default: RegEx*

Specifies the extraction mode. Can be one of the following values:

- RegEx - Normal regular expression mode. Finds all instances which are a 100% match for the regular expression. RegEx mode supports the full syntax and features set of [Microsoft .Net Framework Regular Expressions](#).

Batch: Invoices

- Invoices
- Acme (1)
- Standard (2)
- Express (3)
- Spartan (4)

Image Text Fuzzy Extraction Visualizer

PAGE 1 OF 1 ORIGINAL INVOICE<\r><\n>
STANDARD<\r><\n>
ACCOUNT NUMBER 872864830977706247310000051171000029010000771100000008121148<\r><\n>
111EEM Products<\r><\n>
INVOICE NUMBER 977706247310000051171000029010000771100000008121148<\r><\n>
19658 South Frisk INVOICE DATE 11/11/2008<\r><\n>
Oklahoma City, OK 73102 DUE DATE 12/11/2008<\r><\n>
AMOUNT DUE 51.17<\r><\n>
SHIP TO<\r><\n>
PO NUMBER: 2090001161<\r><\n>
Grooper Industries<\r><\n>
13900 N Harvey<\r><\n>
Edmond, OK 73013<\r><\n>
405-507-7000<\r><\n>
BILL TO<\r><\n>
Grooper Industries<\r><\n>
13900 N Harvey<\r><\n>
Edmond, OK 73013<\r><\n>
405-507-7000<\r><\n>
THANK YOU!<\r><\n>
FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-877-202-2594<\r><\n>
UNE # ITEM # DESCRIPTION QUANTITY ORDERED UNIT PRICE TOTAL<\r><\n>
2V620 FLASHLIGHT,D 8 5.07 40.56<\r><\n>
MANUFACTURER # IV2DM<\r><\n>
NUMBER OF PKGS: 0 WEIGHT 3.20 INVOICE SUB TOTAL 40.56<\r><\n>
DATE SHIPPED: 11/11/2008 SHIPPING CHARGE 7.71<\r><\n>
CARRIER: UPS GROUND REGIONAL TAX 2.90<\r><\n>
TRACKING NO: 1Z3018W70328242140<\r><\n>

These items are sold for domestic consumption in the United States. If exported, purchaser assumes full responsibility for compliance with US export controls.<\r><\n>
PAYMENT TERMS NET 30 DAYS. PAY THIS INVOICE NO STATEMENT SENT. PAYABLE IN U.S. DOLLARS. AMOUNT DUE 51.17<\r><\n>
PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT. A<\r><\n>

Characters: 1,495 Lines: 45 Current Line: 0 Current Page: 1

Results (0)

Results (0)	Confidence	Page No	Index	Length

OK Cancel

Pattern Editor Properties

FuzzyRegEx

- Mode: False
- Case Sensitive: None
- Preprocessing Options: (empty)
- Regional Settings: (empty)
- Expression Lexicon: (empty)
- Referenced Lexicons: (empty)
- Fuzzy Matching Options**
 - Minimum Similarity: 85%
 - Match Mode: LeastCost
- Fuzzy Match Weightings**
 - Local Entries: 0 entries
 - Included Lexicons: (0 Lexicon objects)
- Regular Expression**

Local Entries
Type: String
A list of local lexicon entries.

Remarks
The list should be formatted so that there is one entry per line. Use the = symbol to indicate replacement values.

Batch: Invoices

Invoices

- + Acme (1)
- + Standard (2)
- + Express (3)
- + Spartan (4)

Image Text Fuzzy Extraction Visualizer

```

405-507-7000<\r><\n>
BILL TO<\r><\n>
Grooper Industries<\r><\n>
13900 N Harvey<\r><\n>
Edmond, OK 73013<\r><\n>
405-507-7000<\r><\n>
THANK YOU<\r><\n>
FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-877-202-2594<\r><\n>
UNE # ITEM # DESCRIPTION QUANTIT.Y . dRDERED UNIT PRICE TOTAL<\r><\n>
2V620 FLASHLIGHT,D 8 5.07 40.56<\r><\n>
MANUFACTURER # IV2DM<\r><\n>
NUMBER OF PKGS: 0 WE GHT: 3.20 NVOICE SUB TOTAL 40.56<\r><\n>
DATE SHIPPED: 11/11/2008 SHIPPING CHARGE 7.71<\r><\n>
CARRIER: UPS GROUND REGIONAL TAX 2.90<\r><\n>
TRACKING NO: 1Z301W70328242140<\r><\n>
These items are sold for domestic consumption in the United States If exported, purchaser assumes full<\r><\n>
responsibility for compliance with US export controls.<\r><\n>
PAYMENT TERMS NET 30 DAYS. PAY THIS INVOICE NO STATEMENT SENT. PAYABLE IN U.S. DOLLARS. AAFOUNDUE 51.17<\r><\n>
PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT. A<\r><\n>
REMIT TO<\r><\n>
BILL TO:<\r><\n>
Standard Products<\r><\n>
Grooper Industries 19658 South Frisk<\r><\n>
P.O. 13900 N Harvey Oklahoma City, OK 73102<\r><\n>
Edmond, OK 73013 800-555-2121<\r><\n>
405-507-7000<\r><\n>
87286483097770624731000005117100002901000077110000008121148<\r><\n>
X<\r><\n>
ACCOUNT NUMBER DATE INVOICE NUMBER AMOUNT DUE<\r><\n>
872864830 11/11/2008 9777062473 51.17<\r><\n>
FOR COMMENTS OR CHANGE OF ADDRESS, ENTER INFORMATION ON REVERSE SIDE.<\r><\n>
1 YNN 0030800 P

```

Characters: 1,495 Lines: 45 Current Line: 32 Current Page: 1

Results (1)	Confidence	Page No	Index	Length
REMIT TO	88 %	1	1092	8

OK Cancel

Pattern Editor Properties

FuzzyRegEx

- Mode: False
- Case Sensitive: None
- Preprocessing Options: (empty)
- Regional Settings: (empty)
- Expression Lexicon: (empty)
- Referenced Lexicons: (empty)
- Fuzzy Matching Options**
 - Minimum Similarity: 85%
 - Match Mode: LeastCost
- Fuzzy Match Weightings**
 - Local Entries: 0 entries
 - Included Lexicons: (0 Lexicon objects)
- Regular Expression**

Local Entries
Type: String
A list of local lexicon entries.

Remarks
The list should be formatted so that there is one entry per line. Use the = symbol to indicate replacement values.

Batch: Invoices

Invoices

- + Acme (1)
- + Standard (2)
- + Express (3)
- + Spartan (4)

Image Text Fuzzy Extraction Visualizer

```

405-507-7000<\r><\n>
BILL TO<\r><\n>

```

OK Cancel

li=0.25

```

<\n>

xported, purchaser assumes full<\r><\n>
IN U.S. DOLLARS. AAFOUNDUE 51.17<\r><\n>

```

Characters: 1,495 Lines: 45 Current Line: 32 Current Page: 1

Results (1)	Confidence	Page No	Index	Length
REMIT TO	88 %	1	1092	8

1. In the **Context Zone Options** section, click to edit the **Context Zones**.
2. In the **Context Zones** window, delete one of the zones.
3. For the remaining zone, edit the dimensions as follows:

Property	Zone
Left	-2.55
Top	-0.55
Right	1
Bottom	0.15

4. Press **OK**.

The screenshot shows the ACE Architect software interface with the following details:

- File Bar:** File, Edit, Tools, Help.
- Toolbar:** Refresh, Add, Delete, Rename, Clone.
- Project Explorer:** Shows a project structure with nodes like ACE Architect 02, Batch Processing, Content Models, Invoices, (local resources), Extractors, (data model), Acme, End, Express, Spartan, Standard, Data Extraction, Global Resources, Infrastructure, Reports.
- Field Class Tab:** General, Value Type: String, Value Extractor: Address Reference.
- Buttons:** Save, Cancel, Run Extraction.
- Text View:** Shows a preview of the extracted address data.
- Context Zones Dialog:**
 - Buttons:** OK, Cancel, Add..., Edit..., Delete.
 - Table:**

Zone No	Region
Zone 2	(-1,-0.5)(1,0)
 - Dimensions:** Left: -1, Top: -0.5, Right: 1, Bottom: 0, Width: 2, Height: 0.5.
 - Description:** Type: Double, Default: 0, The left edge of the rectangle.
- Feature Occurrences:** 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0.
- Feature Table:** Feature, Count, CWF, CTC, CF, TF, IDF, Weight.

Content Models / Invoices / (local resources) / Extractors / **Remit To**

1. Select **Acme (1)**.
2. In the candidate list, find the value that has features that can be trained.
3. Right click on that value and select **Train As Positive**.
4. Change the following property value(s):

Property	Default Value	New Value
Output		
Minimum Confidence	0%	70%

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - Remit To
 - Ship To
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

General

- Value Type String
- Address "remit to@mail payment to"
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (1 Rectangle)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0%
- Use Class Frequency False
- Sublinear TF Scaling False
- Smooth IDF True

Context Zones

Batch: Invoices

The screenshot shows the ACE Architect interface with the 'Invoices' content model selected. The 'Classifier Tuning' section is open, showing settings like 'Minimum Feature Count 0' and 'Training Threshold 0%'. The 'Context Zones' section shows a single '1 Rectangle' selected. The 'Image View' panel displays a preview of an invoice document with the address '123 South Main, Durham, NH 03824' highlighted in green. Below the preview, there are sections for 'Your Reference' and 'Our Reference' with various fields like P.O. number, Date, and Invoice number.

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Invoice Date
 - Remit To
 - Ship To
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

Context Scope Options

- Context Scope Zonal
- Context Zones (1 Rectangle)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0%
- Use Class Frequency False
- Sublinear TF Scaling False
- Smooth IDF True

Output

- Minimum Confidence 70%
- Collation Method Individual
- Order By Confidence
- Direction Descending

Minimum Confidence

Batch: Invoices

This screenshot is similar to the one above but with a 'Minimum Confidence' setting of 70%. The 'Output' section is open, showing 'Collation Method Individual' and 'Order By Confidence'. The preview of the invoice document shows the address '123 South Main, Durham, NH 03824' highlighted in green. The 'Your Reference' and 'Our Reference' sections are identical to the first screenshot.

> Content Models / Invoices / (data model) / **Remit To**

Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	Remit To
Behavior		
Required	False	True

File Edit Tools Help

Refresh Add Delete Rename Clone

Data Field Contents Advanced

Save Cancel Test Extraction

General

- Value Type String
- Value Extractor Remit To Reference
- Type Referenced Extractor
- Minimum Confidence
- Sub-Element Name
- Description

Appearance

- Alignment
- Display Width
- Error Color
- Background Color
- Environment Colors

Referenced Extractor

Type: Grooper Node

When Type is set to Reference, specifies the

Property Type: Grooper Node

Grooper Nodes are objects which appear in the Grooper Tree Structure. Every object at every level of the tree structure, including folders, are considered Grooper Nodes. All Grooper Node objects support a base set of properties and behaviors common to all node

Batch: Invoices

Document View Text View Instance View

File Edit Tools Help

ACE Architect 02

Batch Processing Content Models

Invoices

- (local resources)
- (data model)
- Invoice Number
- PO Number
- Invoice Date
- Freight
- Sales Tax
- Discount
- Invoice Amount
- Payment Terms
- Ship To
- Remit To
- Acme
- Enid
- Express
- Spartan
- Standard

Data Extraction Global Resources Infrastructure Reports

Remit To

Remit To

Document View Text View Instance View

ACME | INTERNATIONAL

Checks to:

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

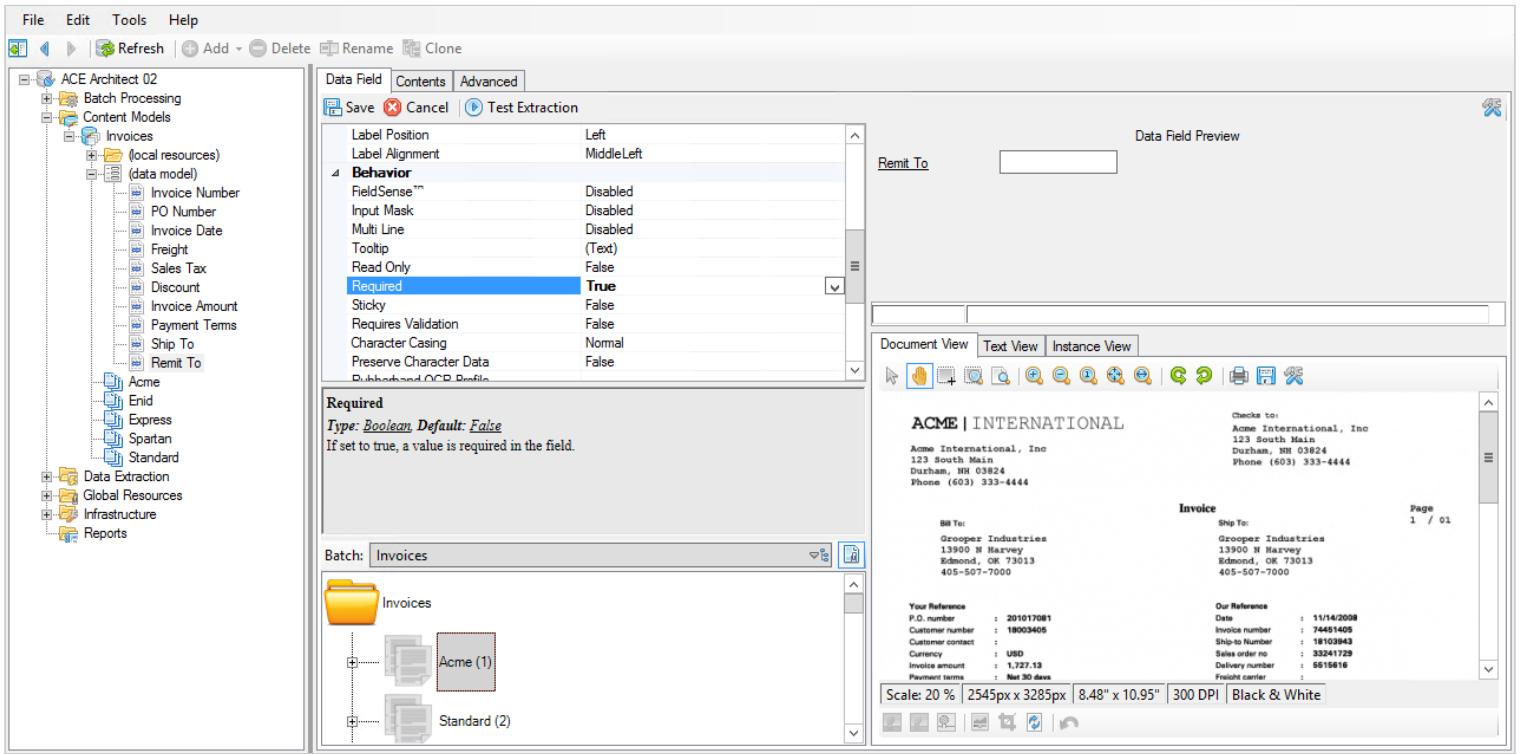
Your Reference

P.O. number	: 291017081
Customer number	: 18003406
Customer contact	: t
Currency	: USD
Invoice amount	: 1,727.13
Payment terms	: Net 30 days

Our Reference

Date	: 11/16/2008
Invoice number	: 74491406
Ship-to Number	: 18103943
Sales order no	: 33241729
Delivery number	: 6515616
Freight carrier	:

Scale: 20 % 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White



Feature List

➤ Batch Processing / Batches / Test / **Invoices**

1. Click on the **Batch Viewer** tab.
2. Collapse the Node Tree using the button in the toolbar.
3. Open Notepad.exe alongside Grooper Design Studio.

ACE Architect 02

Batch Processing

- Batches
 - Production
 - Test
 - Source
 - Production Clones
 - Invoices
- Control Sheets
- Processes
- Projects
- Content Models
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Batch

Save | Cancel | Clone To Production... | Pause

General

Priority	3
Current Step	
Description	

Batch Information

Created	10/17/2018 4:42 PM
Created By	BISvdelk
Current Step No	-1
Current Step Name	(none)
Current Step Activity Name	

Batch

A Batch is a hierarchy of folders and pages which serves as the fundamental unit of capture in Grooper.

Remarks

Batches can exist in one of two environments: Test or Production. Test

Processing Status | Statistics | Tasks | Batch Viewer | Processing History | Event Log | Details

Task Status

Pending In Progress Completed Errors

ACE Architect 02

Batch Processing

- Batches
 - Production
 - Test
 - Source
 - Production Clones
 - Invoices
- Control Sheets
- Processes
- Projects
- Content Models
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Invoices

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

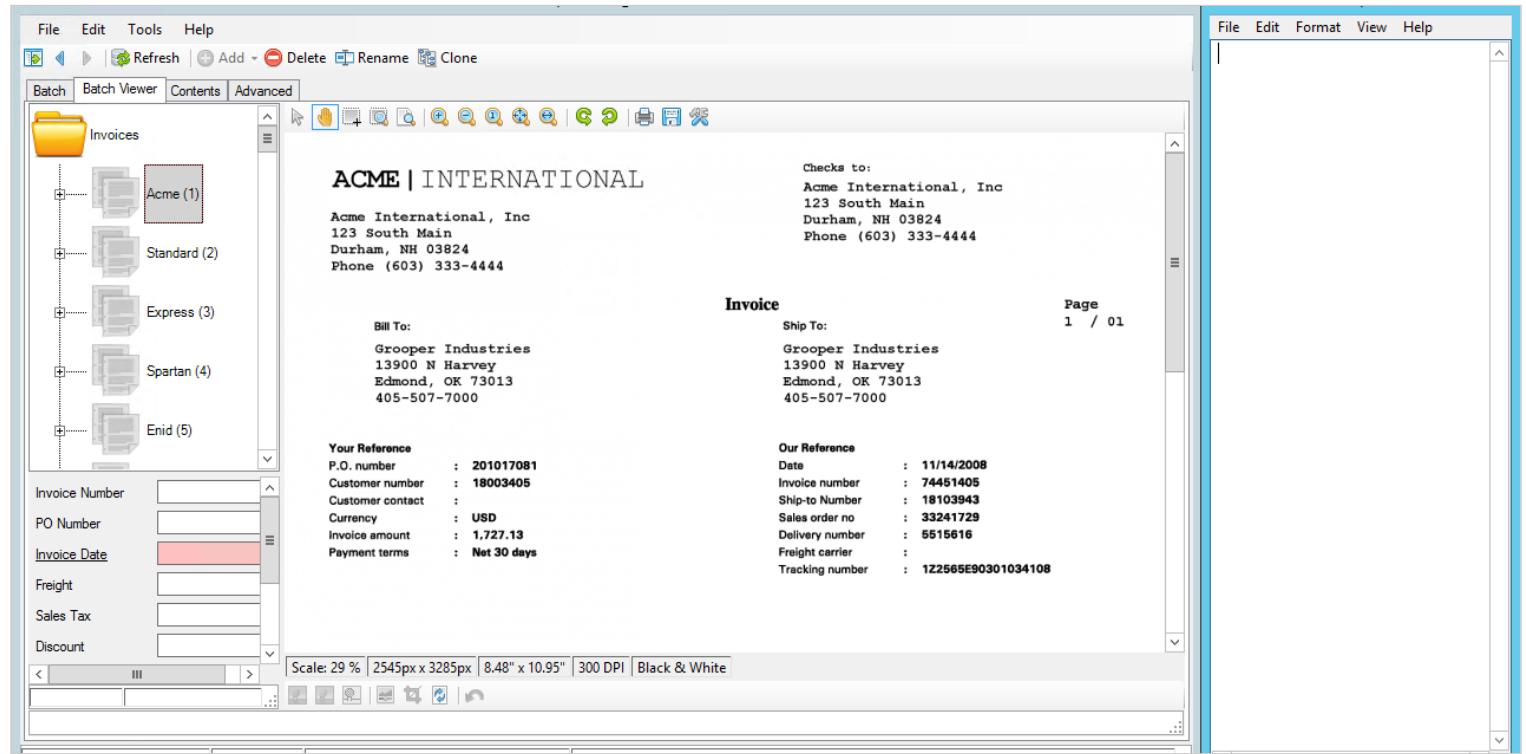
Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

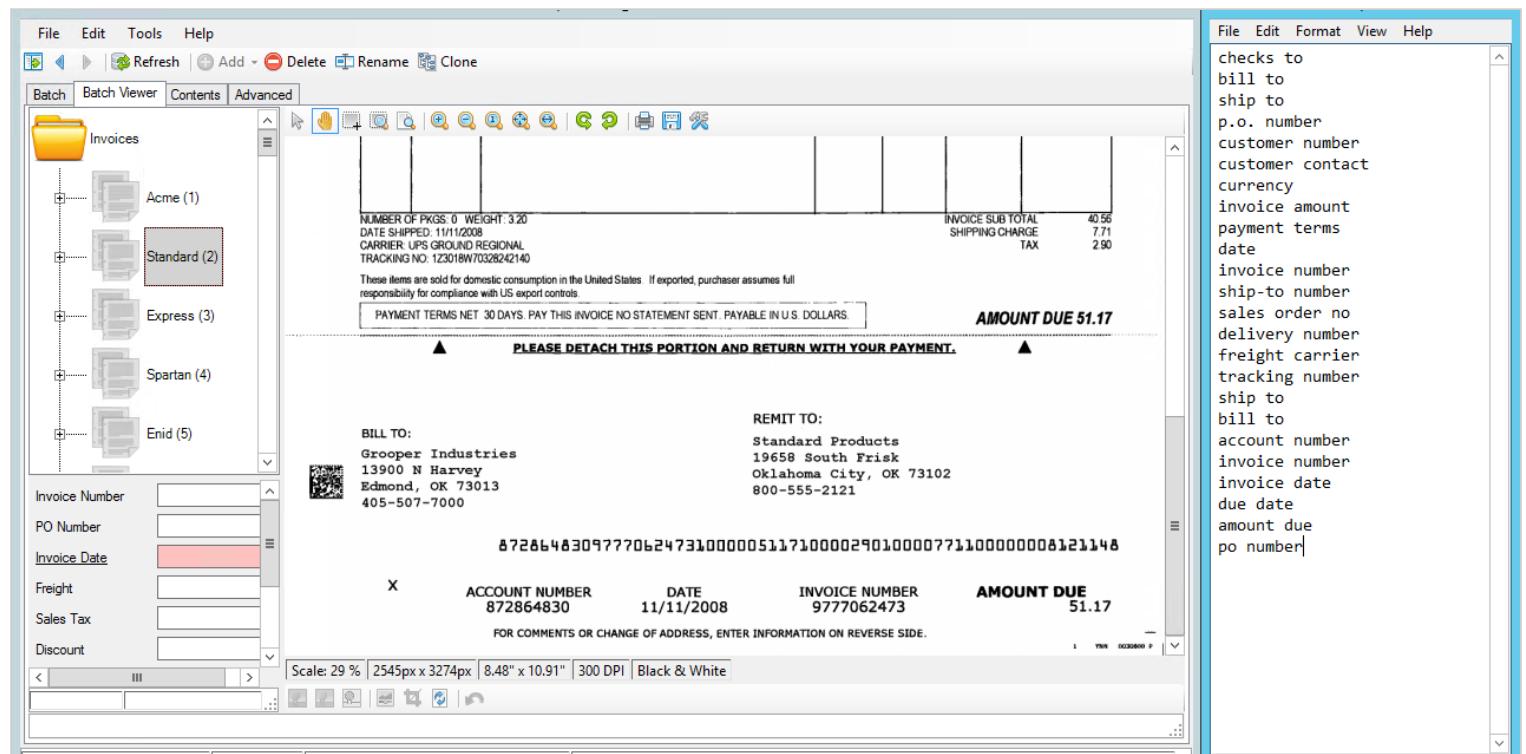
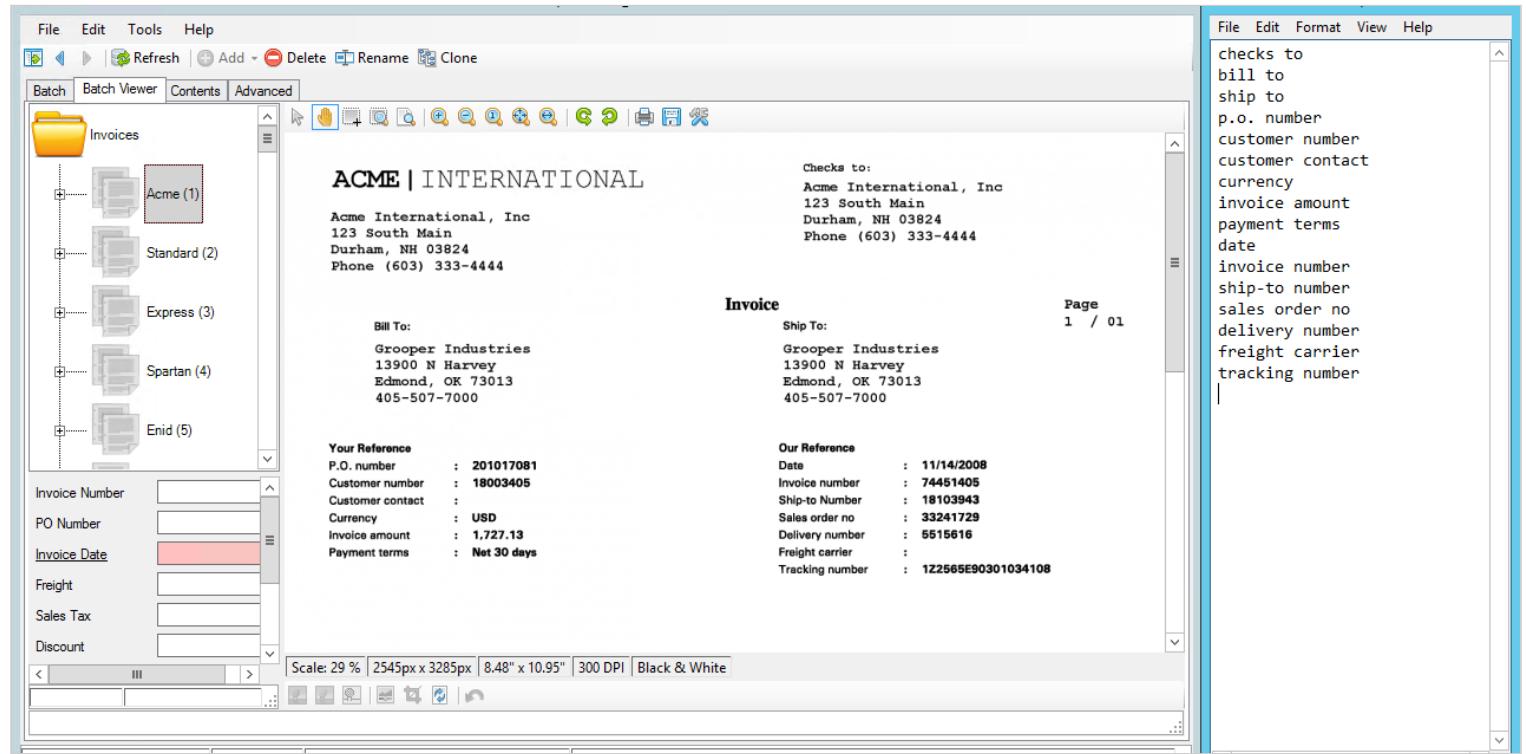
Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	
Tracking number	:	122565E90301034108

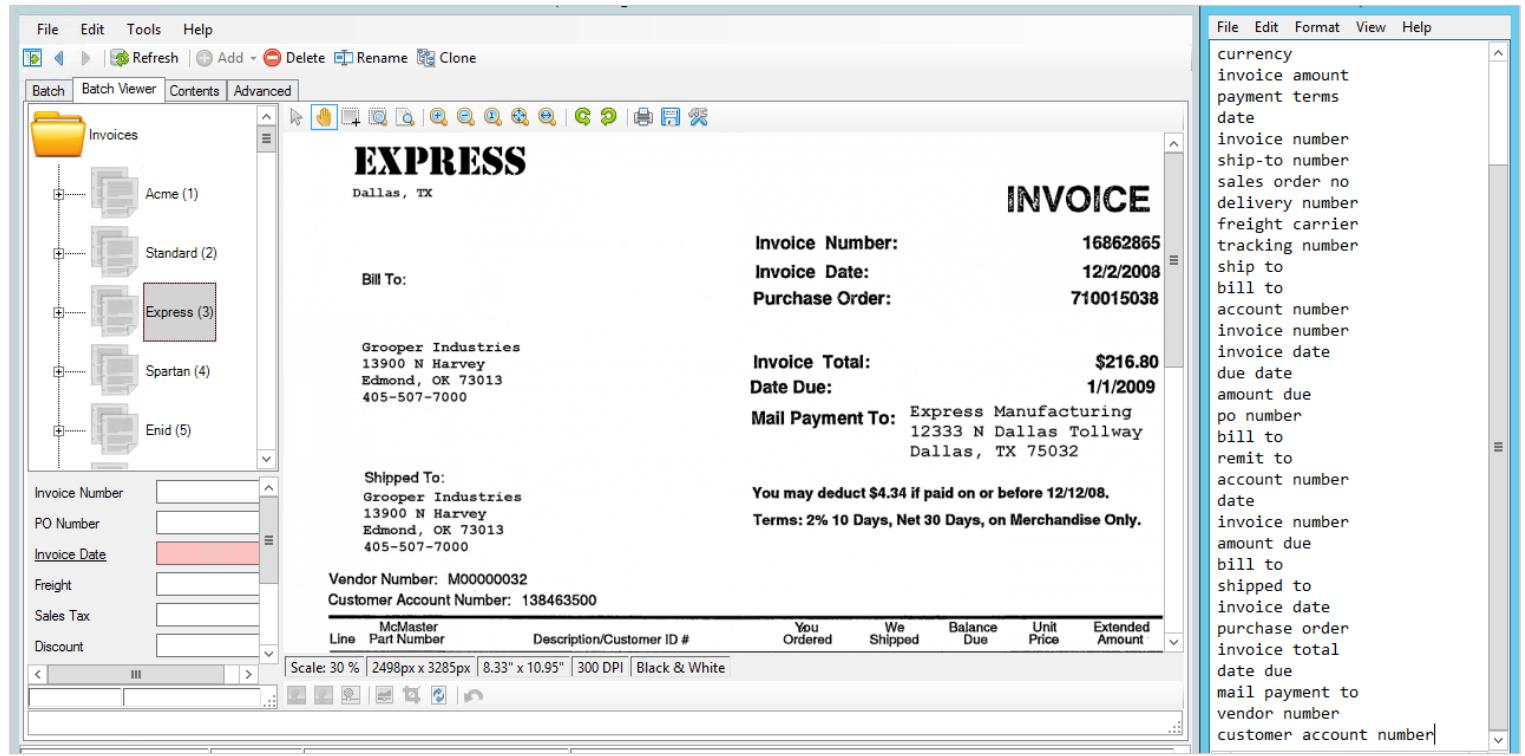
Scale: 28 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White



> Batch Processing / Batches / Test / **Invoices**

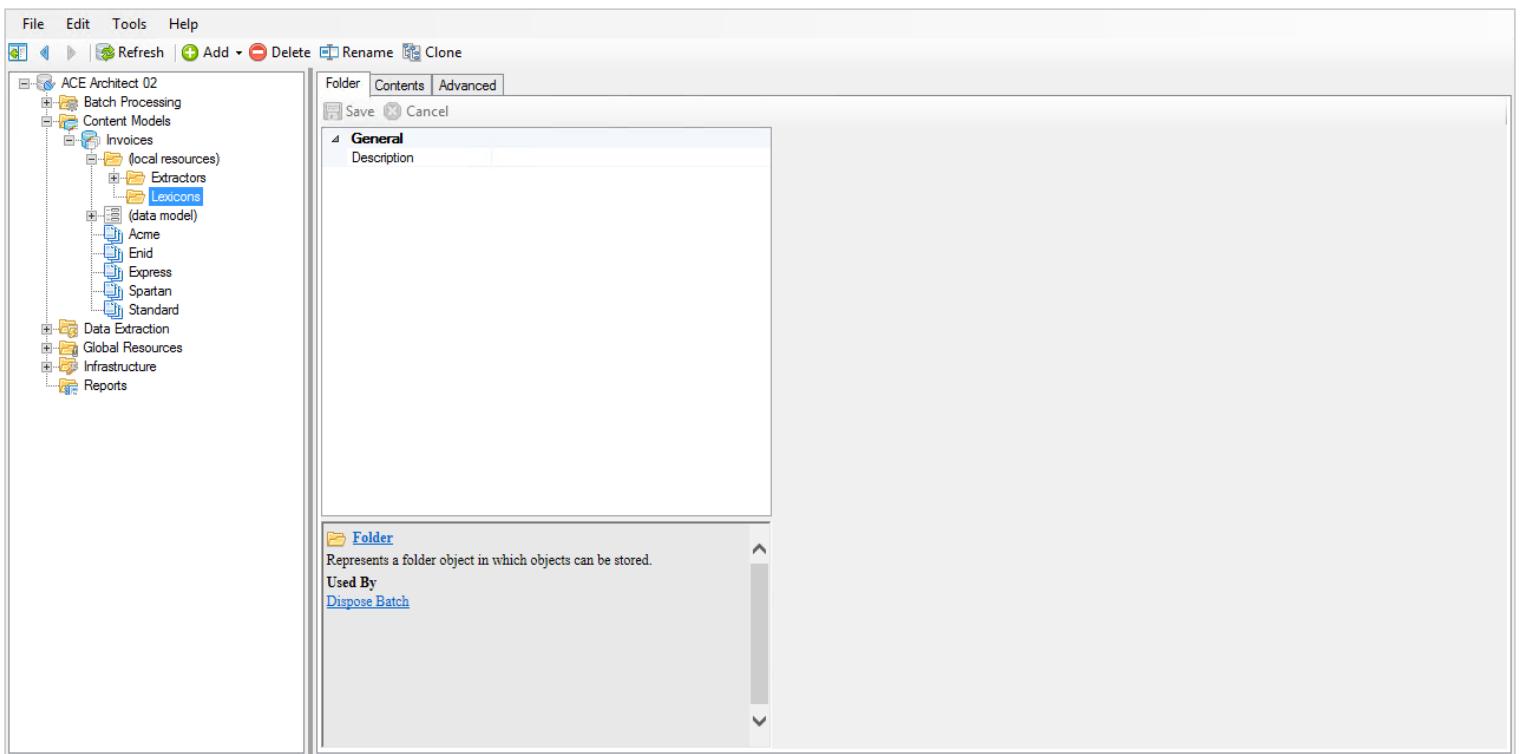
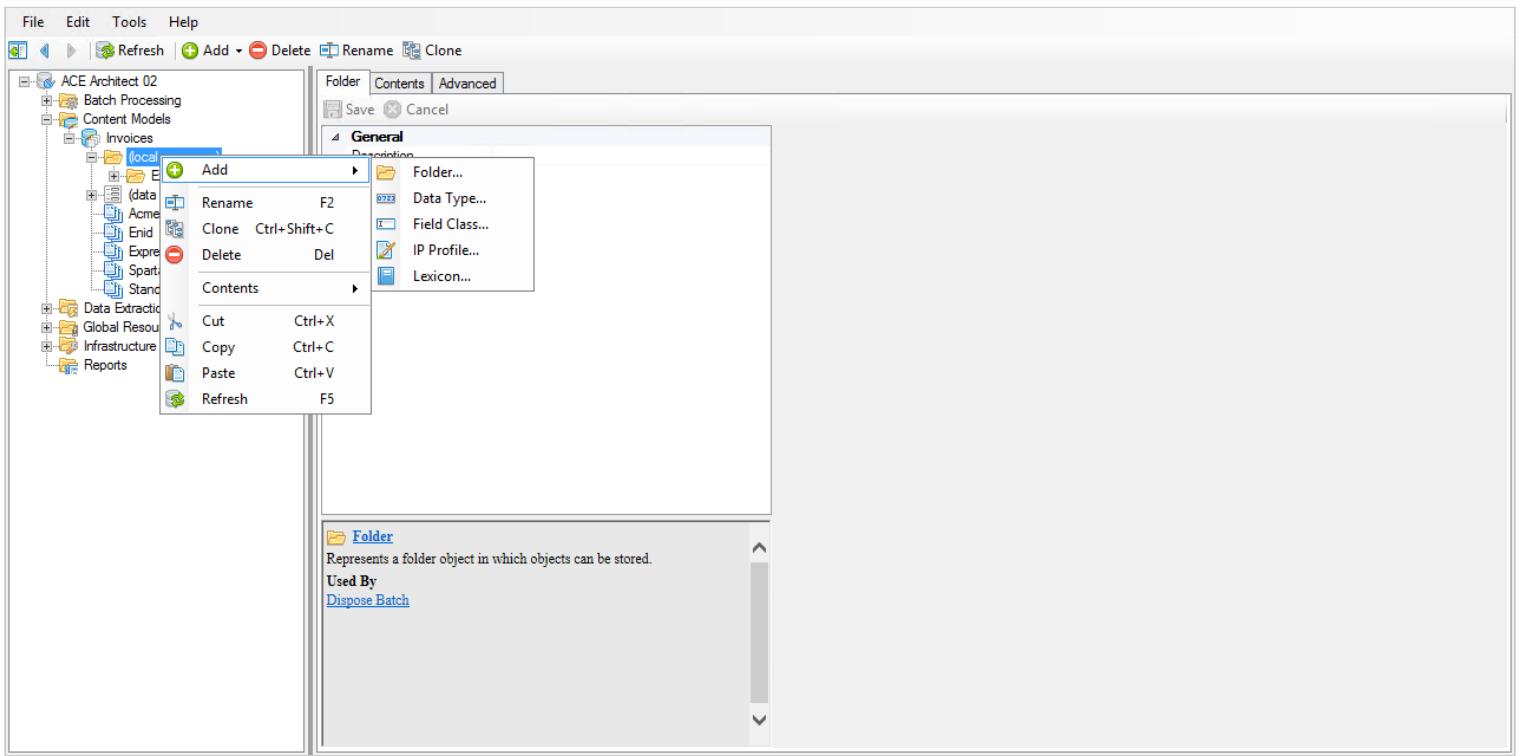
1. Select Acme (1) .
2. In Notepad, begin typing a list of all words and phrases used to identify invoice items.
3. Do this for the remaining four vendors.
4. When complete, copy everything in Notepad to your clipboard.
5. Restore the default Grooper Design Studio view.

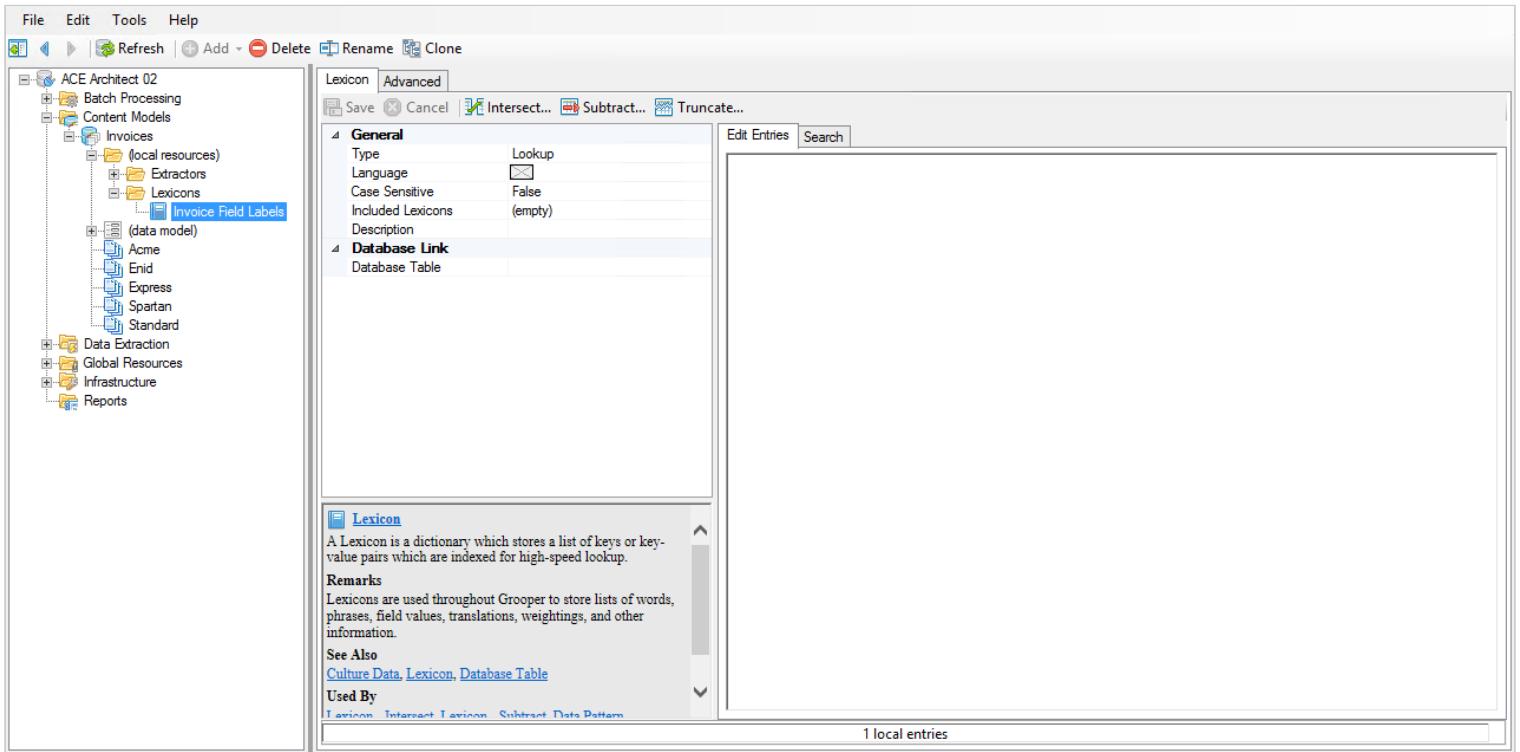




> Content Models / Invoices / **(local resources)**

1. Right click and select **Add > Folder...**.
2. Name it **Lexicons**.
3. Right click on the **Lexicons** folder and select **Add > Lexicon...**.
4. Name it **Invoice Field Labels**.





> Content Models / Invoices / (local resources) / Lexicons / **Invoice Field Labels**

1. Paste your list of field labels in the `Edit Entries` editor.
2. Right click in the `Edit Entries` editor and select `Sort`.
3. Right click in the `Edit Entries` editor and select `Deduplicate`.
4. Normalize synonymous phrases by setting an `=` sign between the original phrase and the desired transformed phrase.
5. Delete this Lexicon.

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Lexicons
 - Invoice Field Labels
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Lexicon Advanced

Save Cancel

General

Type	Lookup
Language	<input style="width: 20px; height: 20px;" type="button" value="..."/>
Case Sensitive	False
Included Lexicons	(empty)
Description	

Database Link

Database Table

Edit Entries Search

delivery number
freight carrier
tracking number
ship to
bill to
account number
invoice number
invoice date
due date
amount due
po number
invoice sub total
shipping charge
tax
bill to
remit to
account number
date
invoice number
amount due
bill to
shipped to
invoice number
invoice date
purchase order
invoice total
date due
mail payment to
vendor number
customer account number
sales tax
shipping charge
invoice total

46 local entries

Lexicon

A Lexicon is a dictionary which stores a list of keys or key-value pairs which are indexed for high-speed lookup.

Remarks

Lexicons are used throughout Grooper to store lists of words, phrases, field values, translations, weightings, and other information.

See Also

[Culture Data](#), [Lexicon](#), [Database Table](#)

Used By

[Lexicon](#) [Invoicing](#) [Invoice](#) [Customer Data Pattern](#)

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Lexicons
 - Invoice Field Labels
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Lexicon Advanced

Save Cancel

General

Type	Lookup
Language	<input style="width: 20px; height: 20px;" type="button" value="..."/>
Case Sensitive	False
Included Lexicons	(empty)
Description	

Database Link

Database Table

Edit Entries Search

delivery number
freight carrier
tracking number
ship to
bill to
account number
invoice number
invoice date
due date
amount due
po number
invoice sub total
shipping charge
tax
bill to
remit to
account number
date
invoice number
amount due
bill to
shipped to
invoice number
invoice date
purchase order
invoice total
date due
mail payment to
vendor number
customer account number
sales tax
shipping charge
invoice total

Select All Ctrl+A

Undo Ctrl + Z

Cut Ctrl+X

Copy Ctrl+C

Paste Ctrl+V

Sort Ctrl+S

Deduplicate Ctrl+D

Change Case ▾

46 local entries

Lexicon

A Lexicon is a dictionary which stores a list of keys or key-value pairs which are indexed for high-speed lookup.

Remarks

Lexicons are used throughout Grooper to store lists of words, phrases, field values, translations, weightings, and other information.

See Also

[Culture Data](#), [Lexicon](#), [Database Table](#)

Used By

[Lexicon](#) [Invoicing](#) [Invoice](#) [Customer Data Pattern](#)

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Lexicons
 - Invoice Field Labels
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Lexicon Advanced

Save Cancel

General

Type	Lookup
Language	
Case Sensitive	False
Included Lexicons	(empty)
Description	

Database Link

Database Table

Edit Entries Search

account number
amount due
bill to
checks to=remit to
currency
customer account number
customer contact
customer number
date
date due
delivery number
due date
freight carrier
invoice amount
invoice date
invoice number
invoice sub total
invoice total
mail payment to=remit to
p.o. number=po number
payment terms
po number
purchase order=po number
remit to
sales order number
sales tax
ship to
shipped to
shipping charge
ship-to number
tax
tracking number
vendor number

33 local entries

Lexicon

A Lexicon is a dictionary which stores a list of keys or key-value pairs which are indexed for high-speed lookup.

Remarks

Lexicons are used throughout Grooper to store lists of words, phrases, field values, translations, weightings, and other information.

See Also

[Culture Data](#), [Lexicon](#), [Database Table](#)

Used By

[Invoice](#), [Intersect](#), [Lexicon](#), [Subtract](#), [Data Pattern](#)

> Global Resources / Lexicons / Training Materials / **Invoice Field Labels**

1. Right click and select **Copy**.
2. Right click on the **Invoices > (local resources) > Lexicons** folder and select **Paste**.

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Lexicons
 - Invoice Field Labels
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Lexicon Advanced

Save Cancel Intersect... Subtract... Truncate...

General

Type	Lookup
Language	
Case Sensitive	False
Included Lexicons	(empty)

Rename F2

Clone Ctrl+Shift+C

Delete Del

Intersect...

Subtract...

Truncate...

Share

Cut Ctrl+X

Copy Ctrl+C

Paste Ctrl+V

Refresh F5

Edit Entries Search

1 local entries

Lexicon

A Lexicon is a dictionary which stores a list of keys or key-value pairs which are indexed for high-speed lookup.

Remarks

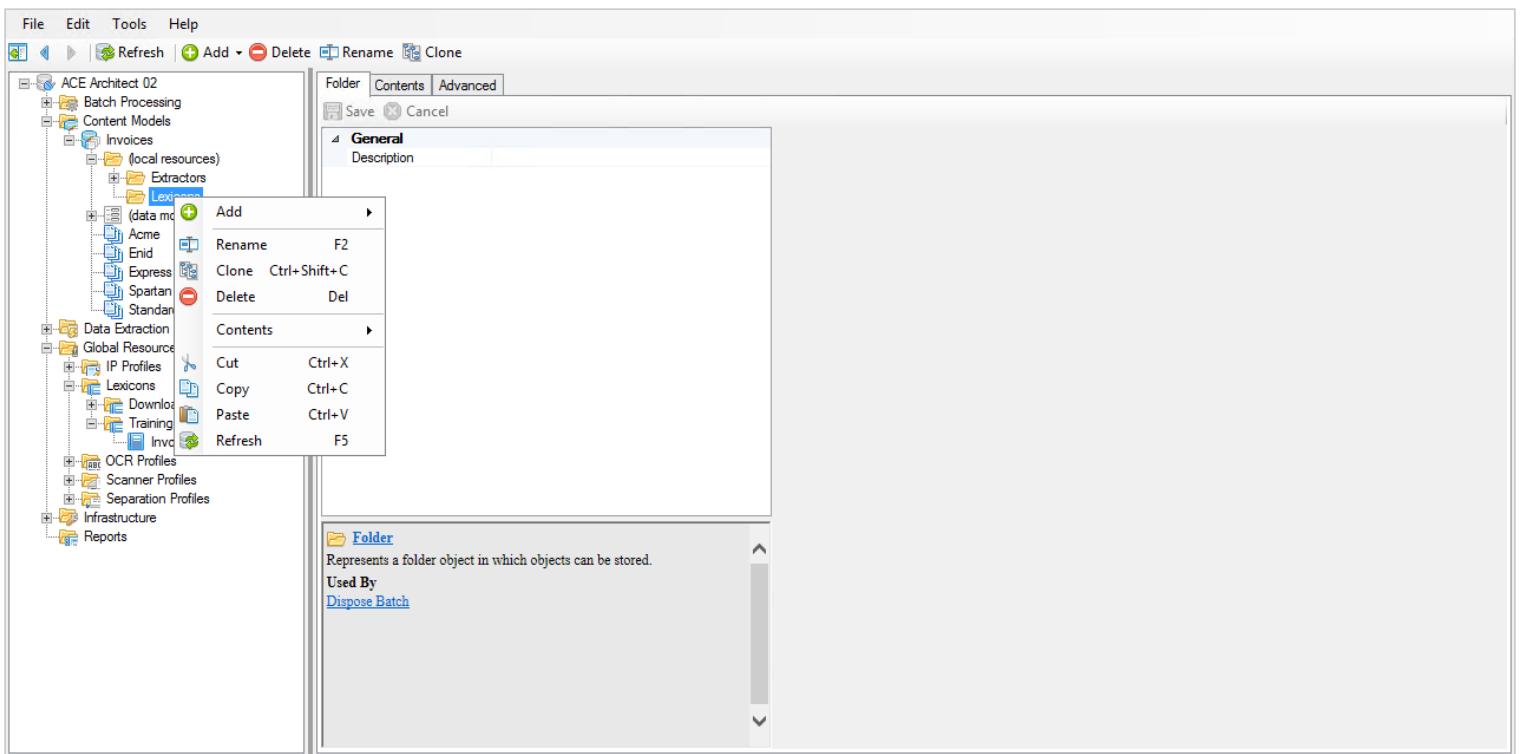
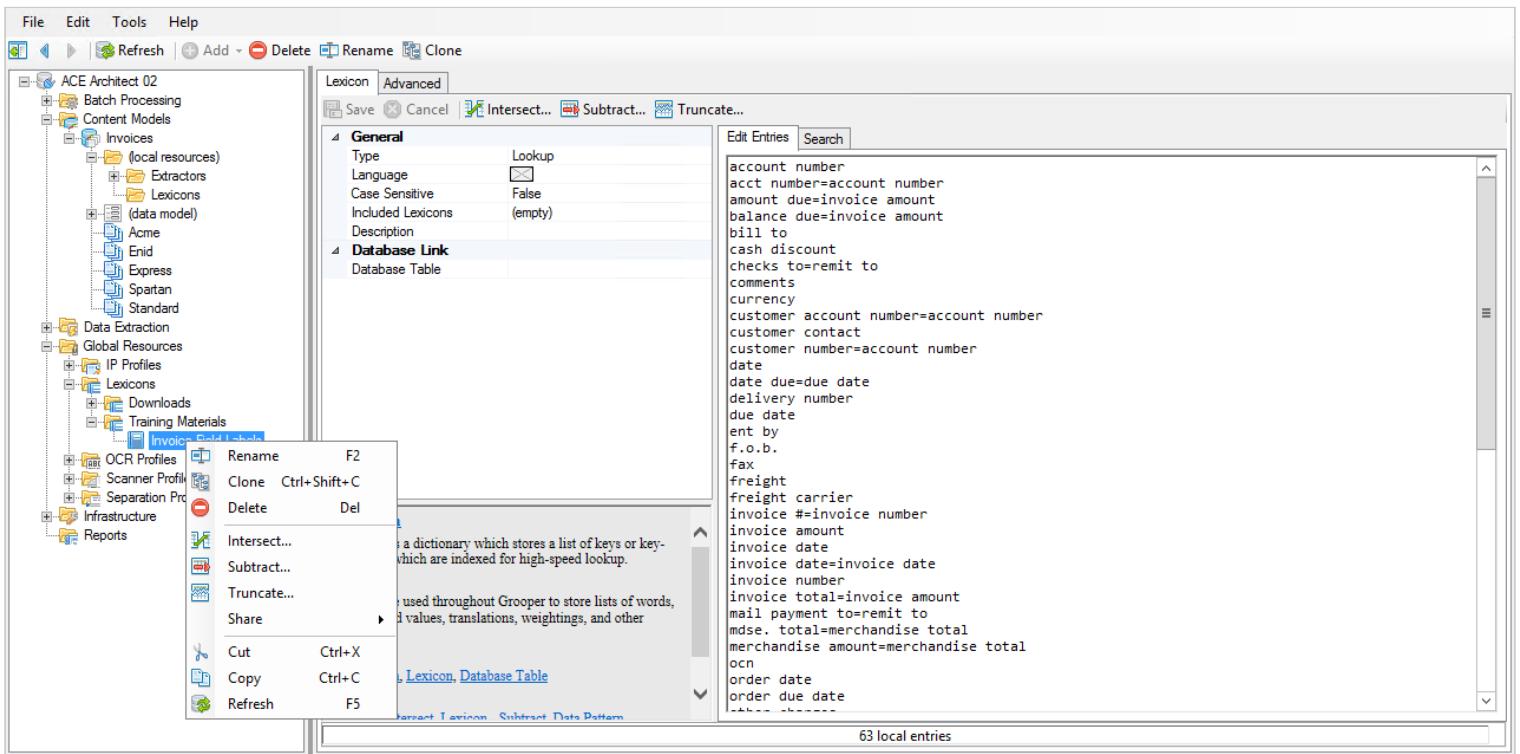
Lexicons are used throughout Grooper to store lists of words, phrases, field values, translations, weightings, and other information.

See Also

[Culture Data](#), [Lexicon](#), [Database Table](#)

Used By

[Invoice](#), [Intersect](#), [Lexicon](#), [Subtract](#), [Data Pattern](#)



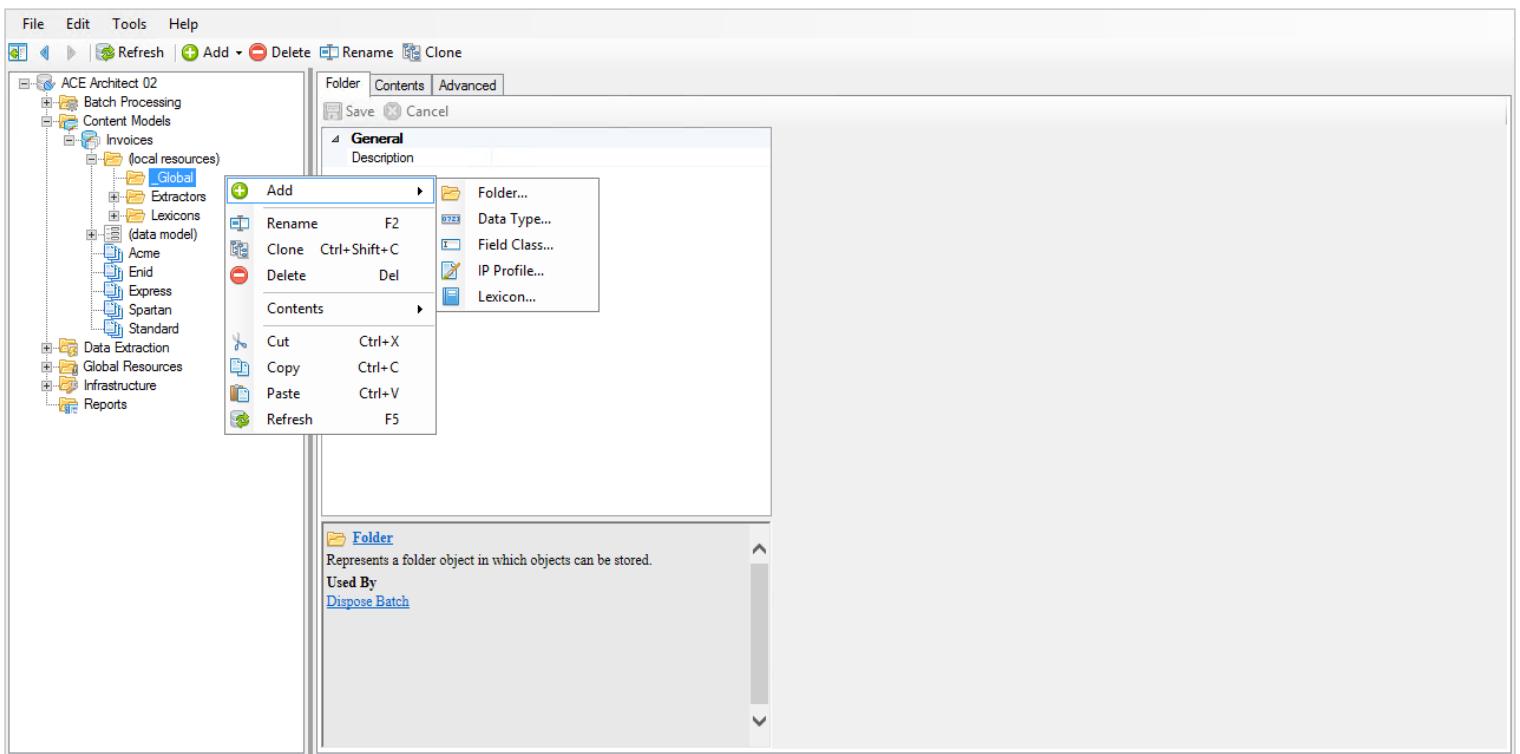
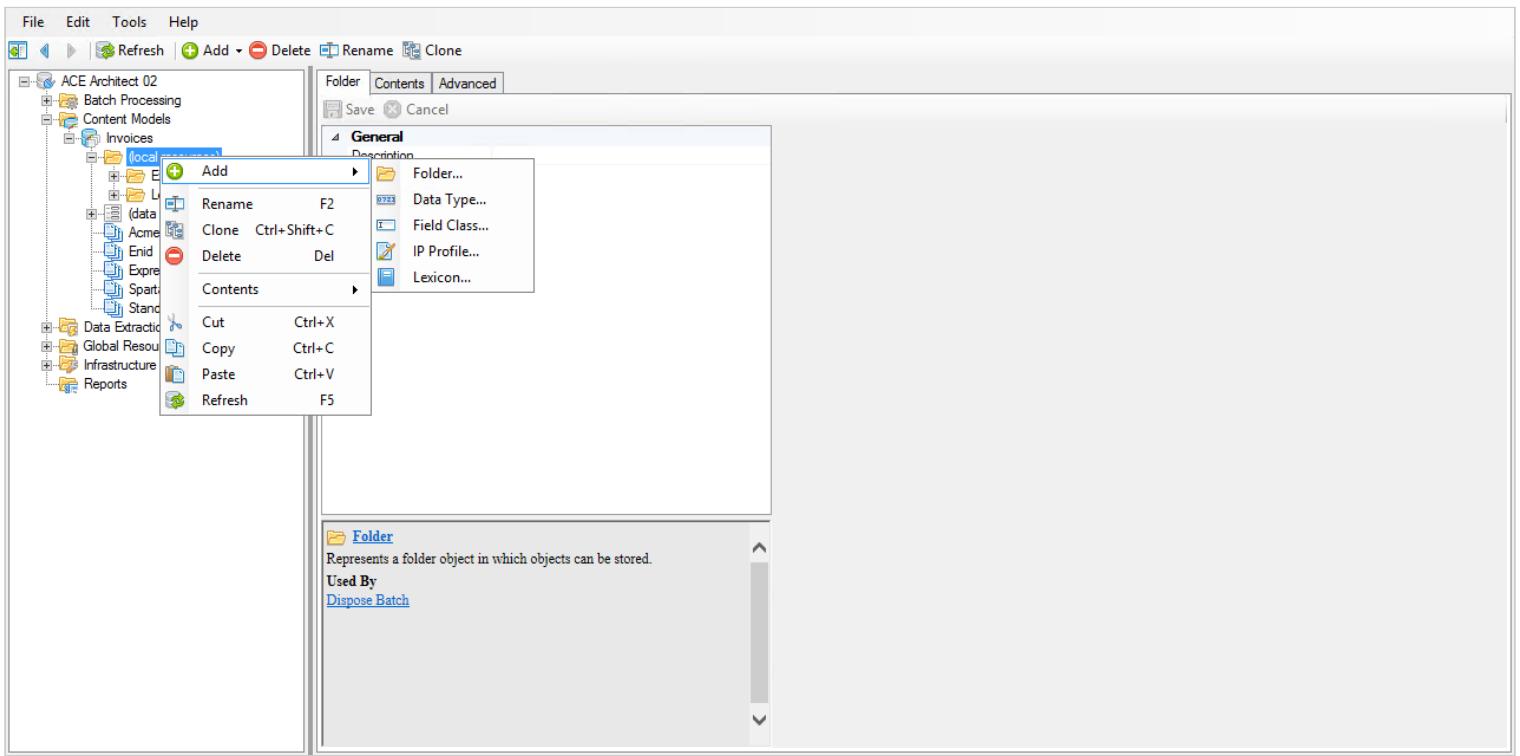
The screenshot shows the ACE Architect 02 interface. On the left, there's a tree view of project components under 'ACE Architect 02'. The 'Content Models' section is expanded, showing 'Invoices' and its sub-folders: '(local resources)', 'Extractors', 'Lexicons', and '(data model)'. Under '(data model)', several databases are listed: 'Acme', 'Enid', 'Express', 'Spartan', and 'Standard'. Other sections like 'Data Extraction', 'Global Resources', 'Infrastructure', and 'Reports' are also visible.

The main workspace is titled 'Lexicon' and contains an 'Advanced' tab. A 'Save' button is present. Below the tabs are buttons for 'Intersect...', 'Subtract...', and 'Truncate...'. The 'General' section is selected, showing the entry type as 'Lookup'. Other settings include 'Language' (set to English), 'Case Sensitive' (set to False), 'Included Lexicons' (empty), and a 'Description' field. The 'Database Link' section is also visible, indicating the entry is a 'Database Table'.

A large pane on the right displays a list of entries. At the top of this list are standard database terms like 'account number', 'acct number=account number', etc. Following these are specific invoice-related terms such as 'amount due=invoice amount', 'balance due=invoice amount', 'bill to', 'cash discount', 'checks to=remit to', 'comments', 'currency', 'customer account number=account number', 'customer contact', 'customer number=account number', 'date', 'date due=due date', 'delivery number', 'due date', 'ent by', 'f.o.b.', 'fax', 'freight', 'freight carrier', 'invoice #=invoice number', 'invoice amount', 'invoice date', 'invoice date=invoice date', 'invoice number', 'invoice total=invoice amount', 'mail payment to=remit to', 'mdse. total=merchandise total', 'merchandise amount=merchandise total', 'ocn', 'order date', 'order due date', and 'order number'. A note at the bottom of this list states '63 local entries'.

> Content Models / Invoices / **(local resources)**

1. Right click and select **Add > Folder...**.
2. Name it **_Global**.
3. Right click on the **_Global** folder and select **Add > Data Type...**.
4. Name it **Invoice Field Labels**.
5. Click to edit the **Pattern**.



File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Invoice Field Labels
 - Extractors
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Chin-an Number : 18119843

Scale: 25% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

Data Type

Batch: Invoices

Value Confidence Page No Index Length Extractor

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Invoice Field Labels
 - Extractors
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Chin-an Number : 18119843

Scale: 25% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

Data Type

Batch: Invoices

Value Confidence Page No Index Length Extractor

- ## 1. Edit the pattern(s):

Value Pattern

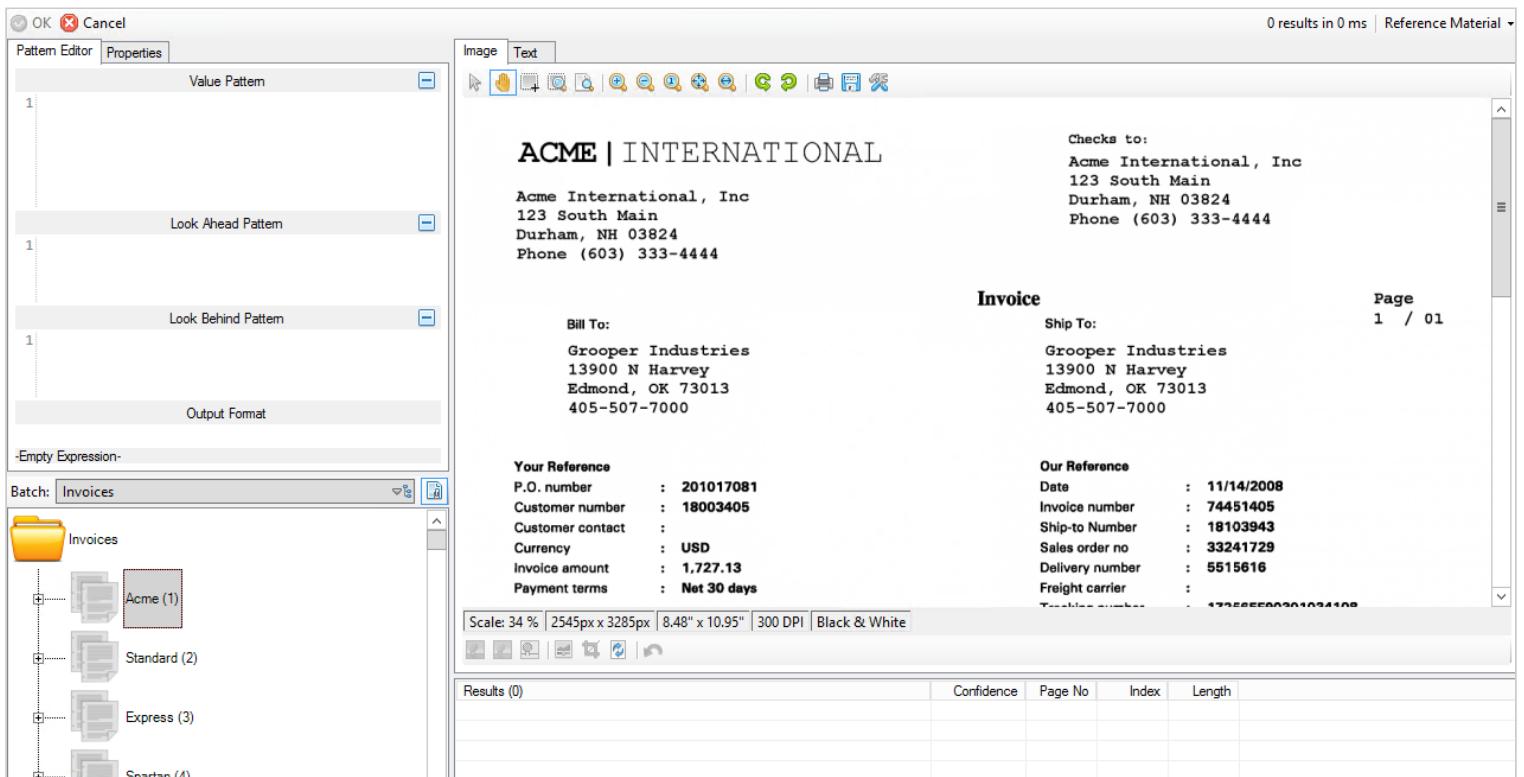
[^\r\n\t\f:]+

2. Click on the Properties tab

3. Change the following property value(s):

Property	Default Value	New Value
General		
Preprocessing Options	None	
Tab Marking	Disabled	Enabled

4. In the **Lookup and Translation** section, click to edit the **Lookup Options**.



OK **Cancel**

Pattern Editor **Properties**

Value Pattern: `[^\r\n\t\f]+`

Look Ahead Pattern: `1`

Look Behind Pattern: `1`

Output Format

OK: `[^\r\n\t\f]+`

Batch: **Invoices**

- Invoices (1)
- Standard (2)
- Express (3)
- Spartan (4)

Image **Text**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice **Page**
Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference **Our Reference**
P.O. number : 201017081 **Date** : 11/14/2008
Customer number : 18003405 **Invoice number** : 74451405
Customer contact : **Ship-to Number** : 18103943
Currency : USD **Sales order no** : 33241729
Invoice amount : 1,727.13 **Delivery number** : 5515616
Payment terms : Net 30 days **Freight carrier** :

Scale: 34 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Results (41)

	Confidence	Page No	Index	Length
Checks to	100 %	1	0	9
ACME INTERNATIONAL Acme International, Inc	100 %	1	12	42
123 South Main	100 %	1	56	14
Acme International, Inc Durham, NH 03824	100 %	1	72	40

OK **Cancel**

Pattern Editor **Properties**

General

- Value Type**: String
- Mode**: RegEx
- Case Sensitive**: False

Preprocessing Options

- Tab Marking**: **Enabled**
 - Paragraph Marking: Disabled
 - Vertical Tab Marking: Disabled
 - Ignore Control Characters: None

Regional Settings: (empty)

Expression Lexicon: (empty)

Referenced Lexicons: (empty)

Regular Expression

Value Pattern: `[^\r\n\t\f]+`

Look Ahead Pattern

Look Behind Pattern

Output Format

Lookup and Translation

Lookup Options: (empty)

Tab Marking

Batch: **Invoices**

- Invoices (1)
- Standard (2)
- Express (3)
- Spartan (4)

Image **Text**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice **Page**
Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference **Our Reference**
P.O. number : 201017081 **Date** : 11/14/2008
Customer number : 18003405 **Invoice number** : 74451405
Customer contact : **Ship-to Number** : 18103943
Currency : USD **Sales order no** : 33241729
Invoice amount : 1,727.13 **Delivery number** : 5515616
Payment terms : Net 30 days **Freight carrier** :

Scale: 34 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Results (91)

	Confidence	Page No	Index	Length
Checks to	100 %	1	0	9
ACME	100 %	1	12	4
INTERNATIONAL	100 %	1	17	13
Acme International, Inc	100 %	1	31	23

OK Cancel

Pattern Editor Properties

General

- Value Type String
- Mode RegEx
- Case Sensitive False
- Preprocessing Options Tabs (empty)
- Regional Settings Expression Lexicon Referenced Lexicons (empty)

Regular Expression

- Value Pattern `[^\n\n\nV:]+`
- Look Ahead Pattern
- Look Behind Pattern
- Output Format

Lookup and Translation

- Lookup Options (empty)
- Group Lookup Options (0 Group Lookup Options objects)
- Local Vocabulary Entries 0 entries

Output Options

- Maximum Result Count 0

Batch: Invoices

Invoices

- Acme (1)
- Standard (2)
- Express (3)
- Spartan (4)

Image Text

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier : 

Scale: 34 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Results (91)

	Confidence	Page No	Index	Length
Checks to	100 %	1	0	9
ACME	100 %	1	12	4
INTERNATIONAL	100 %	1	17	13
Acme International, Inc	100 %	1	31	23

Page 1 / 01

> Content Models / Invoices / (local resources) / _Global / **Invoice Field Labels**

- Change the following property value(s):

Property	Default Value	New Value
General		
Vocabulary	(none)	
Included Lexicons	(0 Lexicon Objects)	Invoice Field Labels
Enable Translation	False	True
Fuzzy Lookup Options		
Fuzzy Match Similarity	100%	90%

- Press **OK**.

Pattern Editor Properties

General

- Value Type: String
- Mode: RegEx
- Case Sensitive: False
- Preprocessing Options: (empty)
- Regional Settings: Expression Lexicon
- Referenced Lexicons: (empty)

Regular Expression

- Value Pattern: [^\n\n\nV:]+
- Look Ahead Pattern:
- Look Behind Pattern:
- Output Format:

Lookup and Translation

- Lookup Options: (empty)
- Group Lookup Options: (0 Group Lookup Options objects)
- Local Vocabulary Entries: 0 entries

Output Options

- Maximum Result Count: 0

Lookup Options

Batch: Invoices

Invoices

- Acme (1)
- Standard (2)
- Express (3)
- Spartan (4)

Lookup Options

OK Cancel

Image **Text**

Lookup Options

OK Cancel

General

Vocabulary: (empty)

- Type: Lookup
- Case Sensitive: False
- Local Entries: 0 entries
- Included Lexicons: (0 Lexicon objects)

Exclusions: Clean Key, Porter Stemming

Included Lexicons

- Invoices • (local resources)
 - Global
 - Extractors
 - Lexicons
 - Invoice Field Labels
 - Global Resources • Lexicons

Results (91)

	Confidence	Page No	Index	Length
Checks to	100 %	1	0	9
ACME	100 %	1	12	4
INTERNATIONAL	100 %	1	17	13
Acme International, Inc	100 %	1	31	23

Pattern Editor Properties

General

- Value Type: String
- Mode: RegEx
- Case Sensitive: False
- Preprocessing Options: (empty)
- Regional Settings: Expression Lexicon
- Referenced Lexicons: (empty)

Regular Expression

- Value Pattern: [^\n\n\nV:]+
- Look Ahead Pattern:
- Look Behind Pattern:
- Output Format:

Lookup and Translation

- Lookup Options: (empty)
- Group Lookup Options: (0 Group Lookup Options objects)
- Local Vocabulary Entries: 0 entries

Output Options

- Maximum Result Count: 0

Lookup Options

Batch: Invoices

Invoices

- Acme (1)
- Standard (2)
- Express (3)
- Spartan (4)

Lookup Options

OK Cancel

Image **Text**

Lookup Options

OK Cancel

General

Vocabulary: 1 lexicon: Invoice Field Labels

- Case Sensitive: False
- Type: Lookup
- Local Entries: 0 entries
- Included Lexicons: (1 Lexicon)

Exclusions: (empty)

Clean Key: True

Match Case: False

Porter Stemming: False

Fuzzy Lookup Options

Fuzzy Match Similarity: 100%

Enable Translation

Type: Boolean Default: False

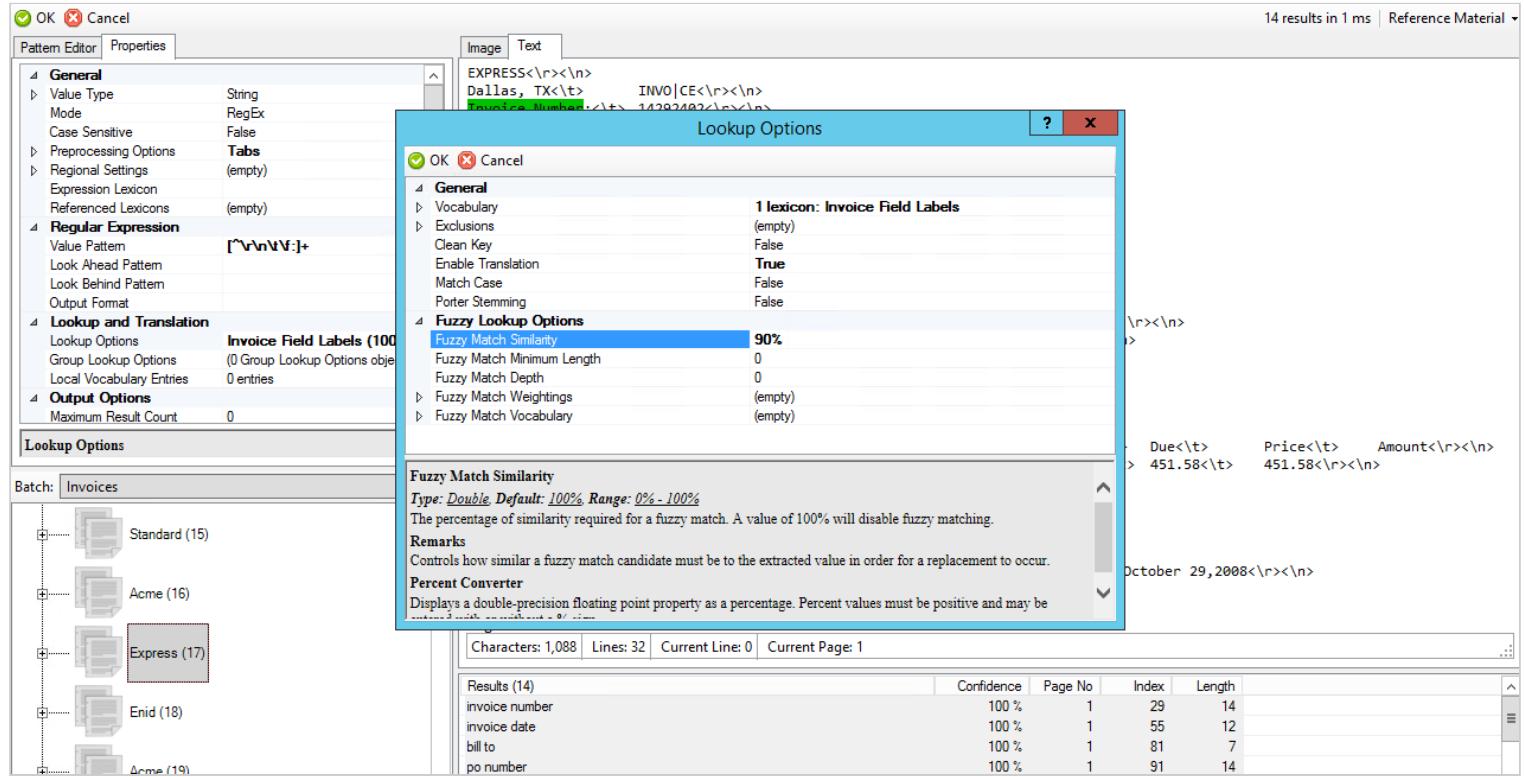
If enabled, values will be translated to the replacement values specified in the vocabulary.

Remarks

Vocabulary entries may consist of key-value pairs, using the = symbol as a delimiter. For example, the vocabulary entry OK=Oklahoma indicates that if the value "OK" is found, it should be translated to "Oklahoma". If the vocabulary entry does not specify a replacement value, then no translation will be performed.

Results (91)

	Confidence	Page No	Index	Length
Checks to	100 %	1	0	9
ACME	100 %	1	12	4
INTERNATIONAL	100 %	1	17	13
Acme International, Inc	100 %	1	31	23



> Content Models / Invoices / (local resources) / _Global / **Invoice Field Labels**

1. In the **Output Options** section, click to edit **Result Filter**.
2. In the **Result Filter** window, set the **Output Case** property to **Lower**.
3. Press **OK** to close the Result Filter window.
4. Press **OK** to close the pattern editor window.

OK Cancel

Pattern Editor Properties

Image Text

Regular Expression Value Pattern: `[^\n\nV:]+`

Lookup and Translation Invoice Field Labels (90%) (0 Group Lookup Options objects) 0 entries

Output Options Maximum Result Count: 0 Remove Control Characters: False Trim: False Result Filter: (empty)

nGram Options nGram Size: 1

Result Filter

Batch: Invoices

- Standard (15)
- Acme (16)
- Express (17)
- Enid (18)
- Acme (19)

Image Text

EXPRESS
Dallas, TX

INVOICE

Invoice Number: 14292402
Invoice Date: 10/29/2008
Purchase Order: 010013661

Bill To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Shipped To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Vendor Number: M00000032

Scale: 35% | 2503px x 3279px | 8.34" x 10.93" | 300 DPI | Black & White

Results (16)	Confidence	Page No	Index	Length
po number	100 %	1	91	14
invoice amount	100 %	1	153	13
due date	100 %	1	194	8
Remit To	93 %	1	230	15

OK Cancel

Pattern Editor Properties

Image Text

Regular Expression Value Pattern: `[^\n\nV:]+`

Lookup and Translation Invoice Field Labels (90%) (0 Group Lookup Options objects) 0 entries

Output Options Maximum Result Count: 0 Remove Control Characters: False Trim: False Result Filter: (empty)

nGram Options nGram Size: 1

Result Filter

Batch: Invoices

- Standard (15)
- Acme (16)
- Express (17)
- Enid (18)
- Acme (19)

Image Text

EXPRESS

Result Filter

Character Casing Case Filter: None Output Case: Lower

Page and Location Page Filter: (0.0):(0.0)

Length Filtering Minimum Length: 0 Maximum Length: 0

Horizontal Alignment Alignment: Any

Font Size Minimum Font Size: 0 Maximum Font Size: 0

Output Case

Type: CharacterCasing Default: None

If set to a value other than None, will change the case of output instances to match the selected case. A combination of the following flags:

- None: No case filtering will be performed.
- Upper: Indicates that UPPER CASE results should be included.
- Lower: Indicates that lower case results should be included.
- Title: Indicates that Title Case results should be included.

INVOICE

Number: 14292402
Date: 10/29/2008
Order: 010013661

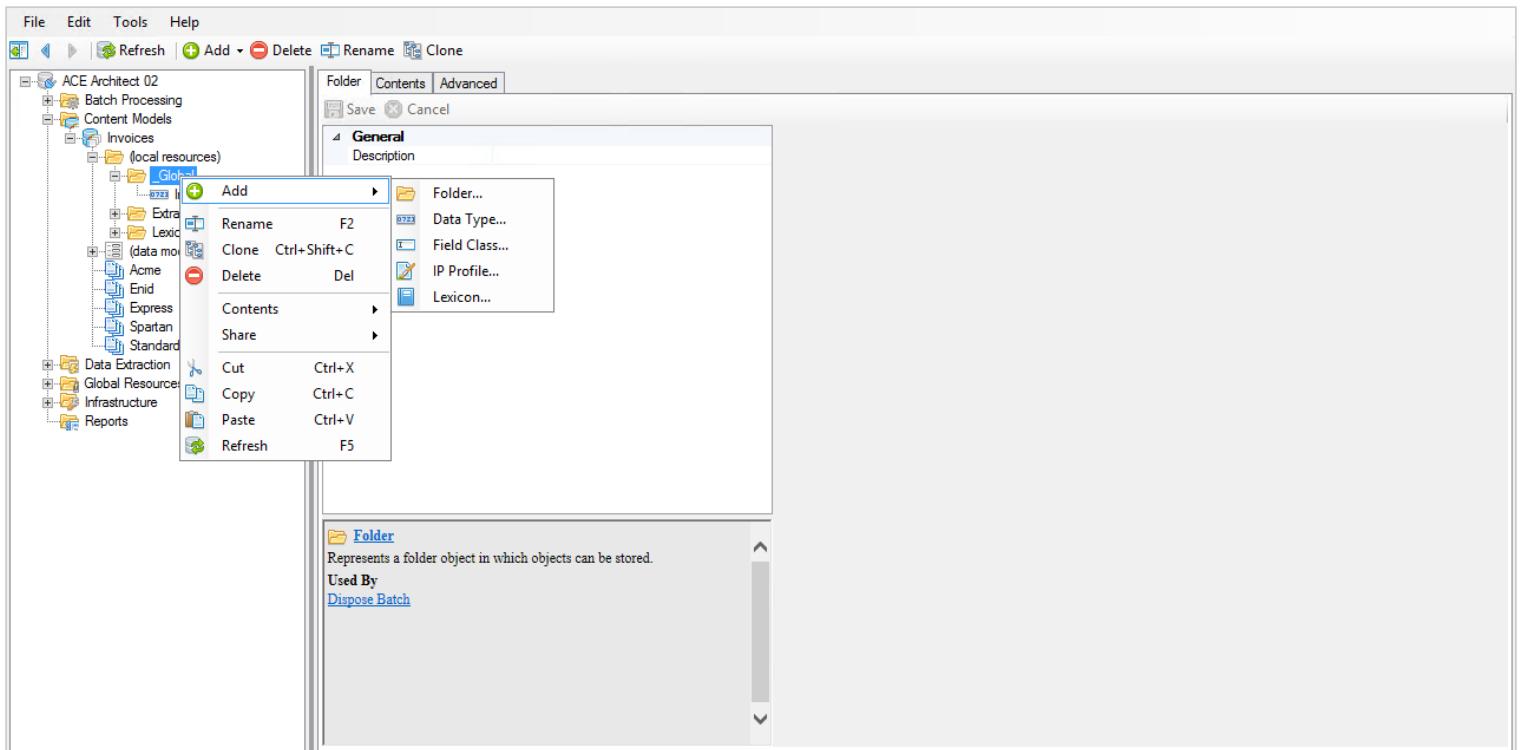
Total: \$458.97
Date Due: 11/28/2008

Mail Payment To: Express Manufacturing
12333 N Dallas Tollway
Dallas, TX 75032

You may deduct \$9.03 if paid on or before 11/09/08.
Terms: 2% 10 Days, Net 30 Days, on Merchandise Only.

Results (16)	Confidence	Page No	Index	Length
po number	100 %	1	91	14
invoice amount	100 %	1	153	13
due date	100 %	1	194	8
Remit To	93 %	1	230	15

1. Right click and select **Add > Data Type...**.
2. Name it **[Array] PO Number**.
3. Add two child Data Formats to the **[Array] PO Number** Data Type:
 - a. Purchase
 - b. Order Number



File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - [Array] PO Number
 - Purchase
 - Order Number
 - Invoice Field Labels
 - Extractors
 - Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation Individual
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Duplicate Locations False
- Duplicate Values False

Data Type

Batch: Invoices

- Express (3)
- Spartan (4)
- Enid (5)

Image View Text View

Enid Parts

INVOICE

INVOICE DATE	INVOICE #	PAGE
12-05-08	CSI/10076138	1

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30

ITEM NUMBER ITEM DESCRIPTION

QUANTITY ORDERED QUANTITY SHIPPED STK UNIT PRICE UNIT DISCOUNT EXTENDED PRICE

Scale: 25 % 2548px x 3287px 8.49" x 10.96" 300 DPI Black & White

Value Confidence Page No Index Length Extractor

> Content Models / Invoices / (local resources) / _Global / [Array] PO Number / Purchase

1. Select Enid (5)
2. Edit the pattern(s):

Value Pattern

purchase

Output Format

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - [Array] PO Number
 - Purchase
 - Order Number
 - Extractors
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Format **Contents** **Advanced**

Pattern Editor **Properties**

Image **Text**

Value Pattern

Look Ahead Pattern

Look Behind Pattern

Output Format

-Empty Expression-

Batch: Invoices

- Standard (2)
- Express (3)
- Spartan (4)
- Enid (5)**

Enid Parts

INVOICE

INVOICE DATE: 12-05-08 INVOICE #: CSI/10076138 PAGE: 1

PH: (405) 555-1212 FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD: Grooper Industries
TO: Grooper Industries
13900 N Harvey
Edmond, OK 73013
SHIP: 13900 N Harvey
TO: Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30

ITEM NUMBER QUANTITY ORDERED QUANTITY SHIPPED STK UNIT PRICE UNIT DISCOUNT EXTENDED PRICE

Scale: 27 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (0) Confidence Page No Index Length

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - [Array] PO Number
 - Purchase
 - Extractors
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Format **Contents** **Advanced**

Pattern Editor **Properties**

Image **Text**

Value Pattern

purchase

Look Behind Pattern

Output Format

po|
OK.purchase

Batch: Invoices

- Standard (2)
- Express (3)
- Spartan (4)
- Enid (5)**

1 results in 4 ms | Reference Material

INVOICE

INVOICE DATE: 12-05-08 INVOICE #: CSI/10076138 PAGE: 1

PH: (405) 555-1212 FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD: Grooper Industries
TO: Grooper Industries
13900 N Harvey
Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30

ITEM NUMBER QUANTITY ORDERED QUANTITY SHIPPED STK UNIT PRICE UNIT DISCOUNT EXTENDED PRICE

7706.1052.
500.0000

Packing Slip No.: 100093121
F ea
Wheel - Carrier
3.2600 Gross

Scale: 27 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (1) Confidence Page No Index Length

po 100 % 1 322 8

1. Select Enid (5)

2. Edit the pattern(s):

Value Pattern

```
order number
```

Output Format

File Edit Tools Help

Refresh Add Delete Rename Clone

Data Format Contents Advanced

Save Cancel Generate...

1 results in 5 ms Reference Material

Pattern Editor

Value Pattern

```
1 order -number
```

Look Ahead Pattern

```
1
```

Look Behind Pattern

```
1
```

Output Format

```
number
```

OK: order number

Batch: Invoices

Standard (2)
Express (3)
Spartan (4)
Enid (5)

Image **Text**

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73013

SOLD Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30

ITEM NUMBER QUANTITY ORDERED QUANTITY SHIPPED STK UNIT PRICE UNIT ITEM DESCRIPTION DISCOUNT EXTENDED PRICE

7706.1052. 500.0000 Packing Slip No. : 100093121 F Wheel - Carrier 3.2600 Gross 1630.000

Scale: 27 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (1)

number	Confidence	Page No	Index	Length
	100 %	1	379	12

> Content Models / Invoices / (local resources) / _Global / [Array] PO Number

Change the following property value(s):

Property	Default Value	New Value
Output		
Collation	Individual	Ordered Array
Vertical Layout	Disabled	Enabled
Maximum Distance	0.25	0.25
Alignment	Center	Center
Alignment Tolerance	0.1	0.1
Row Separator	(a single space)	(a single space)

File Edit Tools Help

Refresh Add Delete Rename Clone

Data Type Scripting Contents Advanced Save Cancel Run Extraction 2 results in 1 ms

General Value Type String Culture Filter Description

Data Extraction Pattern (empty) Referenced Extractors (empty) Input Filter (empty) Exclusion Extractor (empty)

Output Collation Individual Order By Position Direction Ascending (empty)

Deduplication Deduplicate Locations False Deduplicate Values False

Image View Text View

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30
ITEM NUMBER	ITEM DESCRIPTION						
QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE		
7706.1052. 500.0000	500.0000	F ea	Packing Slip No.: 100093121 Wheel - Carrier 3.2600 Gross		1630.000		

Scale: 25 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (2)

po	Confidence	Page No.	Index	Length	Extractor
number	100 %	1	322	8	Purchase
number	100 %	1	379	12	Order Number

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - [Array] PO Number
 - Purchase
 - Order Number
 - Invoice Field Labels
 - Extractors
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

1 results in 1 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation
 - Horizontal Layout Disabled
 - Vertical Layout Enabled
 - Maximum Distance 0.25
 - Alignment Center
 - Alignment Tolerance 0.1
 - Flow Layout Disabled
 - Combine Method Individual
- Result Separator |

Result Separator

Batch: Invoices

- Express (3)
- Spartan (4)
- Enid (5)

Image View Text View

12-05-08 CSI/10076138 1

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30

ITEM NUMBER ITEM DESCRIPTION

QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE
7706.1052. 500.0000	500.0000	F ea	Packing Slip No. : 100093121 Wheel - Carrier 3.2600 Gross		1630.000

Scale: 25 % 2548px x 3287px 8.49" x 10.96" 300 DPI Black & White

Results (1)

ponumber	Confidence	Page No	Index	Length	Extractor
ponumber	100 %	1	322	69	[Array] PO Number

> Content Models / Invoices / (local resources) / _Global

1. Drag the [Array] PO Number Data Type on top of the Invoice Field Labels Data Type.
2. Select the Invoice Field Labels Data Type to ensure the array is now being included in the results.

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - [Array] PO Number
 - [Array] Invoice Field Labels
 - Extractors
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

1 results in 1 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation
 - Horizontal Layout Disabled
 - Vertical Layout Enabled
 - Maximum Distance 0.25
 - Alignment Center
 - Alignment Tolerance 0.1
 - Flow Layout Disabled
 - Combine Method Individual
- Result Separator |

Result Separator

Batch: Invoices

- Express (3)
- Spartan (4)
- Enid (5)

Image View Text View

12-05-08 CSI/10076138 1

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30

ITEM NUMBER ITEM DESCRIPTION

QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE
7706.1052. 500.0000	500.0000	F ea	Packing Slip No. : 100093121 Wheel - Carrier 3.2600 Gross		1630.000

Scale: 25 % 2548px x 3287px 8.49" x 10.96" 300 DPI Black & White

Results (1)

po number	Confidence	Page No	Index	Length	Extractor
po number	100 %	1	322	69	[Array] PO Number

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - [Array] PO Number
 - Invoice Field Labels
 - Extractors
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction 1 results in 1 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation
 - Horizontal Layout Disabled
 - Vertical Layout Enabled Maximum Distance 0.25 Alignment Center Alignment Tolerance 0.1
- Ordered Array
- Flow Layout
- Combine Method
- Result Separator

Confirmation

Move '[Array] PO Number' to 'Invoice Field Labels'?

Yes No

Image View

PH: (405) 555-1212 FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
13900 N Harvey

SHIP Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

R	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
10	099325	010013704	FXG	12-03-08	Net 30

ITEM DESCRIPTION

SHIPPED STK UNIT PRICE UNIT DISCOUNT EXTENDED PRICE

Packing Slip No.: 100093121 Wheel - Carrier 3.2600 Gross 1630.000

ea

Scale: 25% 2548px x 3287px 8.49" x 10.96" 300 DPI Black & White

Result Separator

Batch: Invoices

- Express (3)
- Spartan (4)
- Enid (5)

Results (1)

po number Confidence Page No Index Length Extractor

100 % 1 322 69 [Array] PO Number

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - [Array] PO Number
 - Invoice Field Labels
 - Extractors
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction 1 results in 1 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation
 - Horizontal Layout Disabled
 - Vertical Layout Enabled Maximum Distance 0.25 Alignment Center Alignment Tolerance 0.1
- Ordered Array
- Flow Layout
- Combine Method
- Result Separator

Confirmation

Move '[Array] PO Number' to 'Invoice Field Labels'?

Yes No

Image View

PH: (405) 555-1212 FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
13900 N Harvey

SHIP Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CUS001410	099325	010013704	FXG	12-03-08	Net 30

ITEM NUMBER ITEM DESCRIPTION

QUANTITY ORDERED QUANTITY SHIPPED STK UNIT PRICE UNIT DISCOUNT EXTENDED PRICE

Packing Slip No.: 100093121 Wheel - Carrier 3.2600 Gross 1630.000

7706,1052, 500.0000 F ea 3.2600 Gross

Scale: 25% 2548px x 3287px 8.49" x 10.96" 300 DPI Black & White

Result Separator

Batch: Invoices

- Express (3)
- Spartan (4)
- Enid (5)

Results (1)

po number Confidence Page No Index Length Extractor

100 % 1 322 69 [Array] PO Number

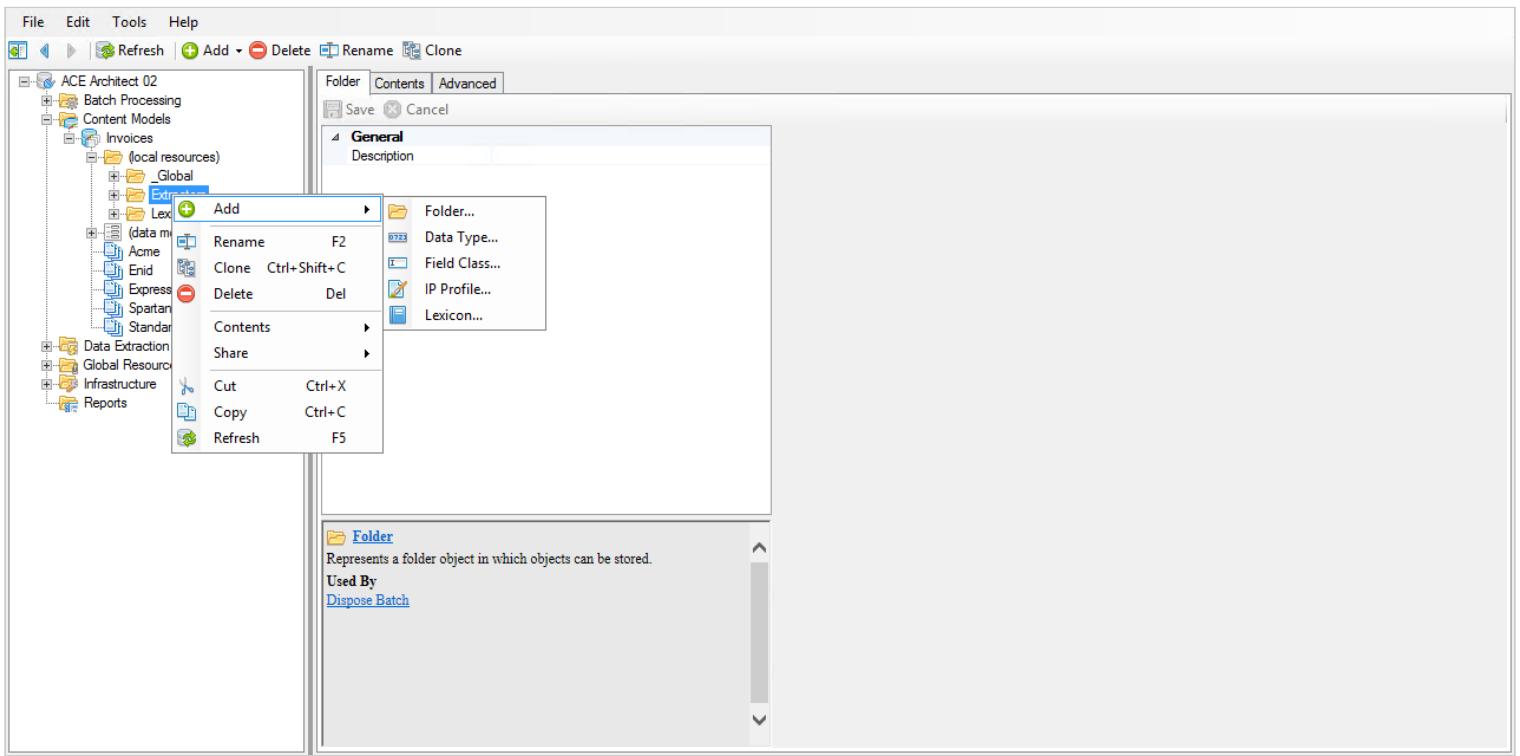
The screenshot shows the ACE Architect 02 software interface. On the left, there's a tree view of project components under 'ACE Architect 02'. In the center, a configuration window for an 'Extractor' is open, specifically for the 'Invoices / (local resources) / Global / Invoice Field Labels' model. The 'Data Extraction' tab is selected, showing settings like 'Pattern' (RegEx: `[^\\n\\r\\f]+`), 'Output' (Individual), and 'Deduplication' (Duplicate Locations: False). Below this, a 'Data Type' section lists 'Batch: Invoices' with three items: 'Express (3)', 'Spartan (4)', and 'Enid (5)'.

On the right, the results of the extraction are displayed. At the top, it says '16 results in 2 ms'. Below this is a preview of the extracted data in 'Text View' format, showing fields like 'INVOICE DATE', 'INVOICE #', and 'PAGE'. The main area shows the extracted data from an 'INVOICE' document for 'Enid Parts'. It includes sections for 'REMIT TO:', 'SOLD TO:', and 'SHIP TO:', along with a detailed table of items ordered.

Invoice Number

Content Models / Invoices / (local resources) / Extractors

1. Right click and select **Add > Field Class...**.
2. Name it **Invoice Number**.



File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - Remit To
 - Ship To
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

- Value Type String
- Value Extractor (empty)
- Feature Extractor (empty)
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0%
- Use Class Frequency False
- Sublinear TF Scaling False
- Smooth IDF True

Field Class

Batch: Invoices

ACME | INTERNATIONAL

Checks to:

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Page 1 / 01

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729

Scale: 26 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

Feature	Count	CWF	CTC	CF	TF	IDF	Weight

1. Create a child Data Type under the **Invoice Number** Field Class.
2. Name it **[Values] Invoice Number**.
3. Create three child Data Formats under the **[Values] Invoice Number** Data Type:
 - a. **Acme/Standard/Express**
 - b. **Enid**
 - c. **Spartan**

The screenshot shows the ACE Architect 02 application interface. On the left, the project tree displays the structure: ACE Architect 02 > Batch Processing > Content Models > Invoices > (local resources) > Global > Extractors > Invoice Date > Invoice Number > [Values] Invoice Number > Acme/Standard/Express, Enid, Spartan. The main workspace shows the configuration of the [Values] Invoice Number Data Type. The 'General' tab is selected, showing Value Type as String, Culture Filter, and Description. The 'Data Extraction' tab shows Pattern, Referenced Extractors, Input Filter, and Exclusion Extractor all as (empty). The 'Output' tab shows Collation as Individual, Order By as Position, Direction as Ascending, and Result Filter as (empty). The 'Deduplication' tab shows Deduplicate Locations and Deduplicate Values both set to False. To the right, the 'Image View' tab displays a scanned document of an invoice from 'ACME | INTERNATIONAL' to 'Grocer Industries'. The 'Text View' tab shows the extracted data in a table:

Your Reference	Our Reference
P.O. number : 201017081	Date : 11/14/2008
Customer number : 18003405	Invoice number : 74451405
Customer contact :	Ship-to Number : 18103943
Currency : USD	Sales order no : 33241729
Invoice amount : 1,727.13	Delivery number : 5515616
Payment terms : Net 30 days	Freight carrier :
	Tracking number : 122565E90301034108

At the bottom, the 'Value' table lists the extracted data with columns: Value, Confidence, Page No, Index, Length, and Extractor. The table shows two rows: 'Acme (1)' and 'Standard (2)'. A status bar at the bottom indicates Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White.

Edit the patterns for each of the Data Formats:

- Acme/Standard/Express

Value Pattern

[0-9]{6,16}

- Enid

Value Pattern

([A-Z]{3})/(@Number){8})

Output Format

- Spartan

Value Pattern

([A-Z]{2})(@Number){2})-(@Number){6})

Output Format

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

Batch Processing
Content Models
Invoices
 (local resources)
 Global
 Extractors
 Invoice Date
 Invoice Number
 [Values] Invoice Number
 Acme/Standard/Express
 Enid
 Spartan
 Remit To
 Ship To
 Lexicons
 (data model)
 Acme
 Enid
 Express
 Spartan
 Standard
Data Extraction
Global Resources
Infrastructure
Reports

Data Format Contents Advanced

Save Cancel Generate...

Pattern Editor Properties

Value Pattern 1 [0-9]{6,16}

Look Ahead Pattern 1

Look Behind Pattern 1

Output Format OK: [0-9]{6,16}

Batch: Invoices

Image Text

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice
Ship To:
Gropper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 8515616
Freight carrier :

Scale: 25 % 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

Results (10)

	Confidence	Page No	Index	Length
201017081	100 %	1	406	
18003405	100 %	1	449	
74451405	100 %	1	473	
18103943	100 %	1	515	

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Format **Contents** **Advanced**

Pattern Editor **Properties**

Value Pattern
1 ([A-Z]{3})/([@Number]{8})

Look Ahead Pattern
1

Look Behind Pattern
1

Output Format
{1}:{2:Number}
OK: ([A-Z]{3})/([0-9]{8})

Batch: Invoices

- Express (3)
- Spartan (4)
- Enid (5) **Selected**
- Express (6)

Image **Text**

Enid Parts

INVOICE

INVOICE DATE	INVOICE #	PAGE
12-05-08	CSI/10076138	1

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73073

SOLD Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049765	11-11-08	CUS001410	099325	010013704	FAX	12-03-08	Net 30

ITEM NUMBER
QUANTITY ORDERED
QUANTITY SHIPPED
STK UNIT
PRICE UNIT
DISCOUNT
EXTENDED PRICE

Scale: 25 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (1)
CSI10076138

Confidence Page No Index Length
100 % 1 49 12

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Format **Contents** **Advanced**

Pattern Editor **Properties**

Value Pattern
1 [A-Z]{2}([@Number]{2})-([@Number]{6})

Look Ahead Pattern (click to expand)

Look Behind Pattern (click to expand)

Output Format
{1}:{2:Number}-{3}
OK: ([A-Z]{2})/([0-9]{2})/([0-9]{6})

Batch: Invoices

- Acme (1)
- Standard (2)
- Express (3)
- Spartan (4) **Selected**

Image **Text**

Spartan

Manufacturing

INVOICE

INVOICE DATE	11/10/08 ORIGINAL
INVOICE NUMBER	MA20-552100

SHIP TO (SAME AS "SOLD TO" UNLESS SHOWN)
Grooper Industries
13900 N Harvey
Edmond, OK 73013

Phone: (800) 111-2222
Fax: (308) 333-1182

PO / RELEASE NUMBER
201011309

SOLD TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013

REMIT TO:
Spartan Manufacturing
12 West Laguna Dr
Irvine, Ca, 92612

ENT BY: MA203338 TAKEN BY: DN
11/10/08 1% 10&25thNET 30 11/10/08 SHIP VIA
10/24/08 OCN: 409171 COMMENTS DIRCT SHIP RAL CARRIERS 194306-01 FOB PPA
VAS FREIGHT MA20 ONLY

Scale: 25 % | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Results (2)
MA20-552100
MA20-201011

Confidence Page No Index Length
100 % 1 215 11
100 % 1 852 11

1. Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	[Values] Invoice Number
Feature Extractor		
Type	None	Reference
Referenced Extractor	-	Invoice Field Labels

2. Select Acme (1).

3. Press Run Extraction.

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class **Weightings** **Contents** **Advanced**

Save **Cancel** **Run Extraction**

Image View **Text View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

Feature **Count** **CWF** **CTC** **CF** **TF** **IDF** **Weight**

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class **Weightings** **Contents** **Advanced**

Save **Cancel** **Run Extraction**

Image View **Text View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

Feature **Count** **CWF** **CTC** **CF** **TF** **IDF** **Weight**

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 10 results in 11 ms

General

 - Value Type String
 - Value Extractor [Values] Invoice Number
 - Type Reference
 - Referenced Extract [Values] Invoice Number
 - Feature Extractor Invoice Field Labels
 - Type Reference
 - Referenced Extract Invoice Field Labels
 - Description

Context Scope Options

 - Context Scope Zonal
 - Context Zones (2 Rectangle objects)
 - Exclusion Extractor (empty)
 - GeoTag Features False

Classifier Tuning

 - Minimum Feature Count 0
 - Training Threshold n/a

Referenced Extractor

Batch: Invoices

Value Page Confidence

Value	Page	Confidence
000020	1	0.0000 %
103003	1	0.0000 %
000021	1	0.0000 %
18003405	1	0.0000 %

Image View Text View

Customer number : 18003405
 Invoice number : 74451405
 Ship-to Number : 18103943
 Sales order no : 33241729
 Delivery number : 5515616
 Payment terms : Net 30 days
 Freight carrier :
 Tracking number : 122565E90301034108

Invoice details

Item	Material Description	Quantity	Unit Price	Value
0000020	GB.C103003-00001 BRACKET	2 EA	984.53	1,969.06
0000021	WS.FREIGHT0231 Freight (Parts)	1 AU	861.47	1,722.93
	Gross Value		0.00	4.20

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0.000000

Feature Count CWF TF IDF Weight

Feature	Count	CWF	TF	IDF	Weight
invoice number	1	0	1.000000	1.000000	1.000000

> Content Models / Invoices / (local resources) / Extractors / **Invoice Number**

1. In the candidate list, find the value that has the appropriate feature(s) to train
2. Right click and select Train As Positive

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 10 results in 11 ms

General

 - Value Type String
 - Value Extractor [Values] Invoice Number
 - Type Reference
 - Referenced Extract [Values] Invoice Number
 - Feature Extractor Invoice Field Labels
 - Type Reference
 - Referenced Extract Invoice Field Labels
 - Description

Context Scope Options

 - Context Scope Zonal
 - Context Zones (2 Rectangle objects)
 - Exclusion Extractor (empty)
 - GeoTag Features False

Classifier Tuning

 - Minimum Feature Count 0
 - Training Threshold n/a

Referenced Extractor

Batch: Invoices

Value Page Confidence

Value	Page	Confidence
18103943	F3	00 %
74451405	F3	00 %
33241729	F3	00 %
5515616	F3	00 %
Train As Negative		
Inspect Instance...		

Image View Text View

405-507-7000

Our Reference

Date : 11/14/2008

Invoice number : 74451405

Ship-to Number : 18103943

Sales order no : 33241729

Delivery number : 5515616

Freight carrier :

Scale: 58 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 1.000000

Feature Count CWF TF IDF Weight

Feature	Count	CWF	TF	IDF	Weight
invoice number	1	0	1.000000	1.000000	1.000000

1. Select Spartan (4).
2. Click to edit the Context Zones.
3. In the Context Zones window, edit the dimensions as follows:

Property	Zone 1	Zone 2
Left	-4	-1
Top	-0.02	-0.35
Right	0.35	0.375
Bottom	0.1	0.05

4. Press OK.

The screenshot shows the ACE Architect software interface with the following details:

- File Bar:** File, Edit, Tools, Help.
- Toolbar:** Refresh, Add, Delete, Rename, Clone.
- Project Explorer:** ACE Architect 02, Batch Processing, Content Models, Invoices, (local resources), Global, Extractors, Invoice Date, Invoice Number, [Values] Invoice Number, Acme/Standard/Express, Enid, Spartan, Remit To, Ship To, Lexicons (data model), Acme, Enid, Express, Spartan, Standard, Data Extraction, Global Resources, Infrastructure, Reports.
- Field Class Tab:** General, Weightings, Contents, Advanced. The General tab is selected, showing the Value Type as String, Value Extractor as [Values] Invoice Number (Reference, Referenced Extract: [Values] Invoice Number), Feature Extractor as Invoice Field Labels (Reference, Referenced Extract: Invoice Field Labels), and Context Scope Options (Context Scope: Zonal, Context Zones: (2 Rectangle objects)).
- Image View:** Shows a sample image of an invoice with the text "INVOICE DATE 11/10/08 ORIGINAL INVOICE NUMBER MA20-552100".
- Text View:** Shows the extracted text "PO / RELEASE NUMBER 201011309".
- Scale:** 72 %, 2552px x 3276px, 8.51" x 10.92", 300 DPI, Black & White.
- Feature Occurrences:** 2 | Total Classes: 7 | Class Trained Items: 0 | Total Weight: 0.951545.
- Table:** Feature Occurrences table showing three rows: invoice date (Count: 1, CWF: 0, TF: 0.500000, IDF: 1.000000, Weight: 0.500000), invoice number (Count: 1, CWF: 1, TF: 0.500000, IDF: 0.903090, Weight: 0.451545), and 201011309 (Count: 1, CWF: 0, TF: 0.000000, IDF: 0.000000, Weight: 0.000000).

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Explain
 - Enid
 - Spartan
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

7 results in 4 ms

General

- Value Type String
- Value Extractor [Values] Invoice Number Reference

Image View Text View

Context Zones

Zone No	Region
Zone 1	(-4.02)(0.35,0.1)
Zone 2	(-1.05)(1.0)

Left -4
 Top -0.02
 Right 0.35
 Bottom 0.1
 Width 4.35
 Height 0.12000000000000001

Left
 Type: Double Default: 0
 The left edge of the rectangle.

Feature Occurrences: 2 | Total Classes: 7 | Class Trained Items: 0 | Total Weight: 0.951545

Feature	Count	CWF	TF	IDF	Weight
invoice date	1	0	0.500000	1.000000	0.500000
invoice number	1	1	0.500000	0.903090	0.451545

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Explain
 - Enid
 - Spartan
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

7 results in 4 ms

General

- Value Type String
- Value Extractor [Values] Invoice Number Reference

Image View Text View

Context Zones

Zone No	Region
Zone 1	(-4.02)(0.35,0.1)
Zone 2	(-1.25)(0.375,0.05)

Left -1
 Top -0.25
 Right 0.375
 Bottom 0.05
 Width 1.375
 Height 0.3

Left
 Type: Double Default: 0
 The left edge of the rectangle.

Feature Occurrences: 2 | Total Classes: 7 | Class Trained Items: 0 | Total Weight: 0.951545

Feature	Count	CWF	TF	IDF	Weight
invoice date	1	0	0.500000	1.000000	0.500000
invoice number	1	1	0.500000	0.903090	0.451545

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

Batch Processing

Content Models

Invoices

- (local resources)
 - _Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

7 results in 5 ms

INVOICE DATE
11/10/08 ORIGINAL

INVOICE NUMBER
MA20-552100

PO / RELEASE NUMBER
201011309

Image View Text View

General

- Value Type String
- Value Extractor [Values] Invoice Number Reference Type Referenced Extract: [Values] Invoice Number
- Feature Extractor Invoice Field Labels Reference Type Referenced Extract: Invoice Field Labels
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects) ...
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold ...

Context Zones

Batch: Invoices

- Express (3)
- Spartan (4)

Value Page Confidence

MA20-552100	1	100.0000 %
552100	1	100.0000 %
MA20-201011	1	0.0000 %
201011309	1	0.0000 %

Scale: 72 % | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 7 | Class Trained Items: 0 | Total Weight: 0.903090

Feature	Count	CWF	TF	IDF	Weight
invoice number	1	1	1.000000	0.903090	0.903090

> Content Models / Invoices / (local resources) / Extractors / Invoice Number / **[Values] Invoice Number**

Change the following property value(s):

Property	Default Value	New Value
Deduplication		
Deduplicate Locations	False	True

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

Data Type Scripting Contents Advanced

Save Cancel Run Extraction 7 results in 2 ms

Invoices

- (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard

Data Extraction Global Resources Infrastructure Reports

General

Value Type String Culture Filter

Description

Data Extraction

Pattern (empty)
Referenced Extractors (empty)
Input Filter (empty)
Exclusion Extractor (empty)

Output

Collation Individual
Order By Position
Direction Ascending
Result Filter (empty)

Deduplication

Deduplicate Locations **True**
Deduplicate Values False

Image View **Text View**

INVOICE DATE
11/10/08 ORIGINAL
INVOICE NUMBER
MA20-552100

PO / RELEASE NUMBER
201011309

Batch: Invoices

Scale: 72 % | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Deduplicate Locations

Standard (2)

Express (3)

Spartan (4)

Results (7)

	Confidence	Page No	Index	Length	Extractor
MA20-552100	100 %	1	215	11	Spartan
552100	100 %	1	220	6	Acme/Standard/Express
201011309	100 %	1	288	9	Acme/Standard/Express
203338	100 %	1	441	6	Acme/Standard/Express
194306	100 %	1	577	6	Acme/Standard/Express
MA20-201011	100 %	1	952	11	Standard

> Content Models / Invoices / (local resources) / Extractors / **Invoice Number**

Change the following property value(s):

Property	Default Value	New Value
Output		
Minimum Confidence	0%	70%

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

Batch Processing

Content Models

- Invoices
 - (local resources)
 - Global
 - Extractors
 - Extractors
 - Invoice Date
 - Invoice Number
 - [Values] Invoice Number
 - Acme/Standard/Express
 - Enid
 - Spartan
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard

Data Extraction

Global Resources

Infrastructure

Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 1 results in 5 ms

Context Scope Options

- Context Scope: Zonal
- Context Zones: (2 Rectangle objects)
- Exclusion Extractor: (empty)
- GeoTag Features: False

Classifier Tuning

- Minimum Feature Count: 0
- Training Threshold: 0%
- Use Class Frequency: False
- Sublinear TF Scaling: False
- Smooth IDF: True

Output

- Minimum Confidence: 70%
- Collation Method: Individual
- Order By: Confidence
- Direction: Descending

Minimum Confidence

Batch: Invoices

Express (3)

Spartan (4)

Value	Page	Confidence
MA20-552100	1	100.0000 %

Image View Text View

INVOICE DATE
11/10/08 ORIGINAL
INVOICE NUMBER
MA20-552100

PO / RELEASE NUMBER
201011200

Scale: 72% | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 7 | Class Trained Items: 0 | Total Weight: 0.903090

Feature	Count	CWF	TF	IDF	Weight
invoice number	1	1	1.000000	0.903090	0.903090

> Content Models / Invoices / (data model) / **Invoice Number**

Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	Invoice Number
Behavior		
Required	False	True

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

- Value Type: String
- Value Extractor: (empty)
- Minimum Confidence: 20%
- Sub-Element Name:
- Description:

Appearance

- Alignment: Left
- Display Width: 100
- Error Color: 255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True
- Label Position: Left

Data Field

Represents a field.

Remarks

Fields can be children of [Data Model](#) or [Data Section](#) objects. Field objects define characteristics such as:

- The appearance of the item in the [Index Panel](#).
- The default ESP™ Extraction settings. These settings can be overridden on

Batch: Invoices

Invoices

- + Acme (1)
- + Standard (2)

Invoice Number

Document View **Text View** **Instance View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number: 201017001
Customer number: 180004005
Customer contact: 18103943
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/14/2008
Invoice number: 744814005
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier:
Tracking number: 12356890301034108

Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

- Value Type: String
- Type: **Referenced Extractor**
- Value Extractor: **Invoice Number**
- Minimum Confidence:
- Sub-Element Name:
- Description:

Appearance

- Alignment:
- Display Width:
- Error Color:
- Background Color:
- Foreground Color:

Referenced Extractor

Type: **Grooper Node**

When Type is set to 'Reference', the value of the node is used as the reference value for the field.

Property Type: **Grooper Node**

Grooper Nodes are objects which are at every level of the tree structure. All Grooper Node objects support a base set of properties and behaviors common to

Batch: Invoices

Invoices

- + Acme (1)
- + Standard (2)

Invoice Number

Document View **Text View** **Instance View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

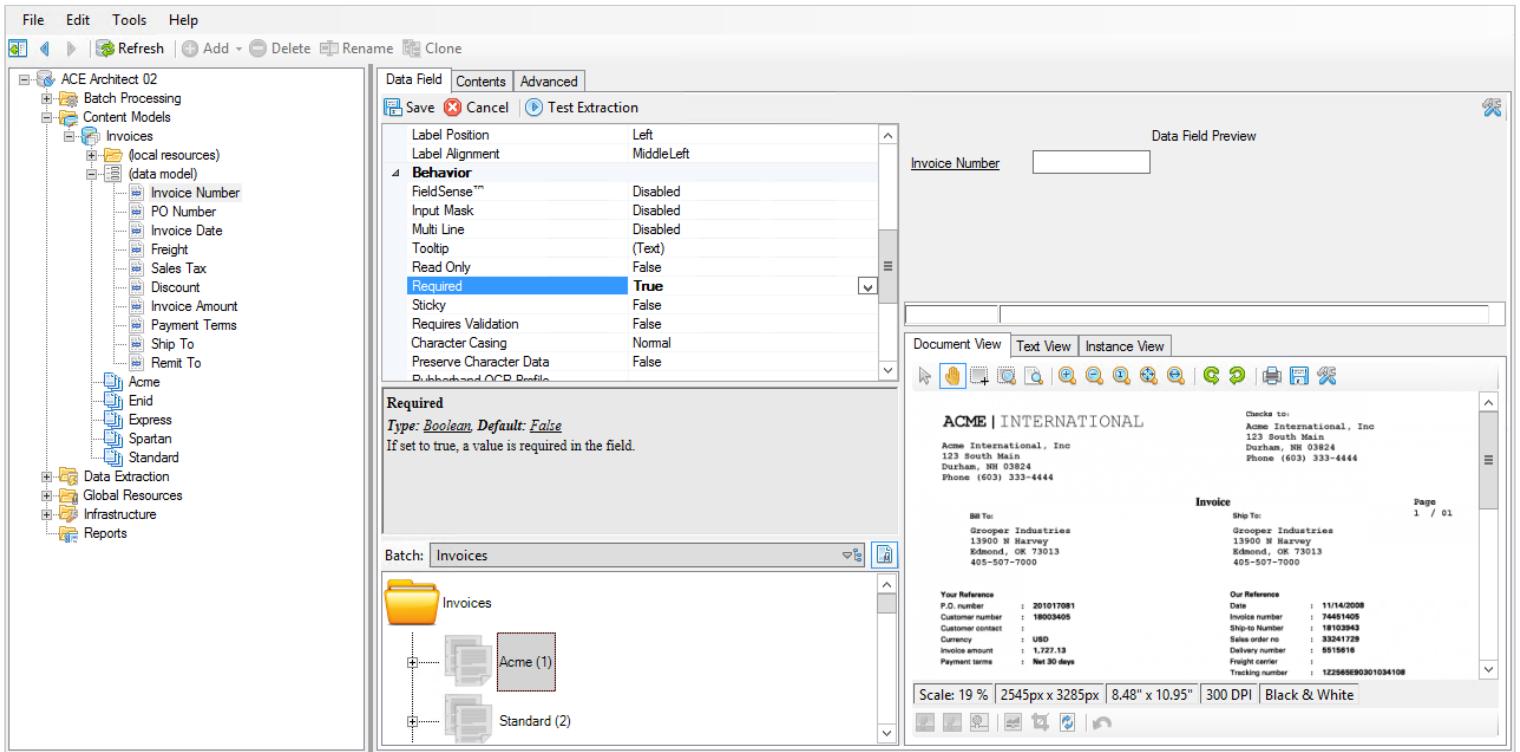
Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number: 201017001
Customer number: 180004005
Customer contact: 18103943
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/14/2008
Invoice number: 744814005
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier:
Tracking number: 12356890301034108

Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White



PO Number/Exclusion Extractor

Content Models / Invoices / (local resources) / **_Global**

1. Right click and select **Add > Data Type...**.
2. Name it **Addresses, Phone Numbers**.
3. In the Data Extraction section, click to edit **Referenced Extractors**.

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Folder Contents Advanced

Save Cancel

General

Description

Folder

Represents a folder object in which objects can be stored.

Used By

Dispose Batch

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Addresses, Phone Numbers
 - Invoice Field Labels
 - Extractors
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

Value Type: String

Culture Filter

Description

Data Extraction

Pattern: (empty)

Referenced Extractors: (empty)

Input Filter: (empty)

Exclusion Extractor: (empty)

Output

Collation: Individual

Order By: Position

Direction: Ascending

Result Filter: (empty)

Deduplication

Deduplicate Locations: False

Deduplicate Values: False

Image View **Text View**

ACME | INTERNATIONAL

Checks to:

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Page 1 / 01

Bill To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number :	201017081
Customer number :	18003405
Customer contact :	
Currency :	USD
Invoice amount :	1,727.13
Payment terms :	Net 30 days

Our Reference

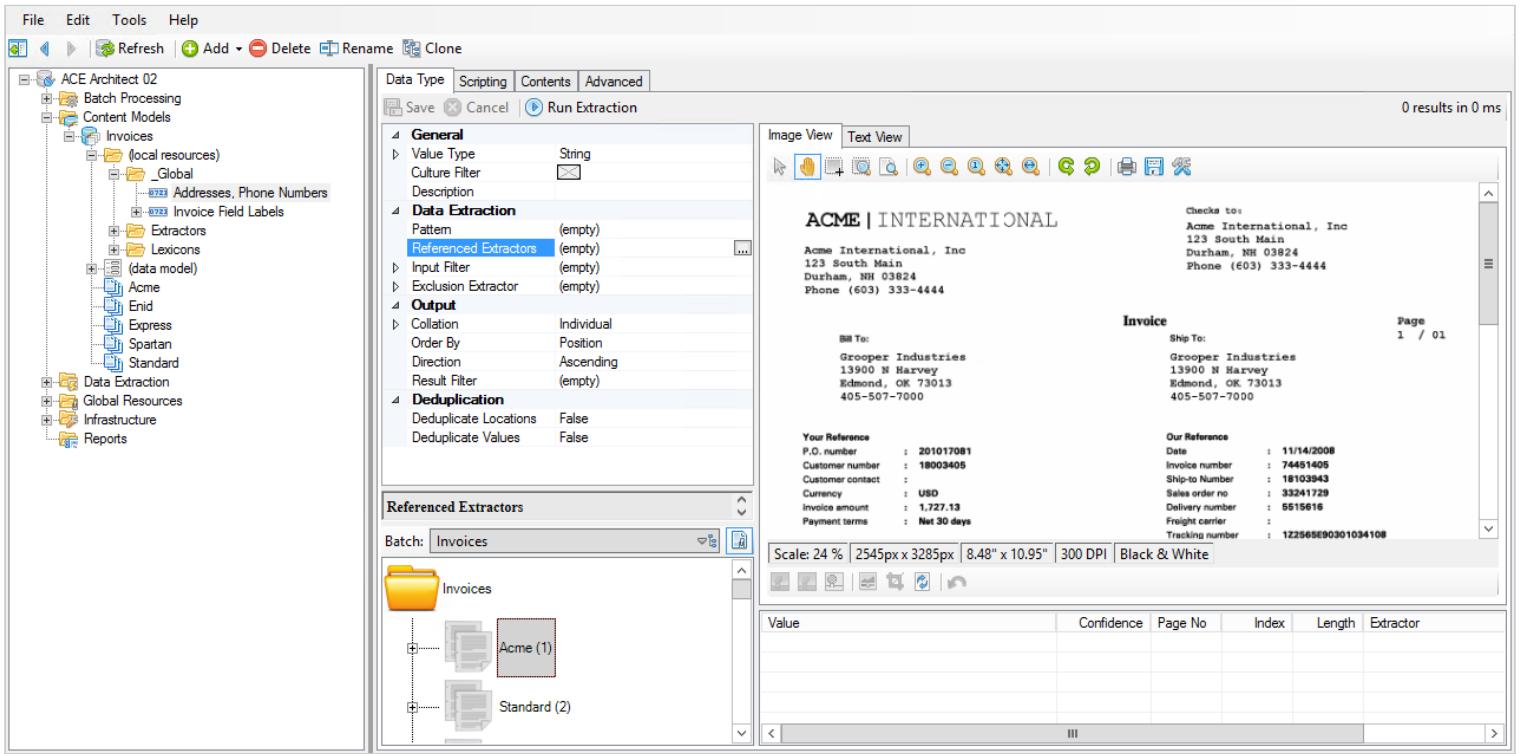
Date :	11/14/2008
Invoice number :	74451405
Ship-to Number :	18103943
Sales order no :	33241729
Delivery number :	551516
Freight carrier :	
Tracking number :	122565690301034108

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Batch: Invoices

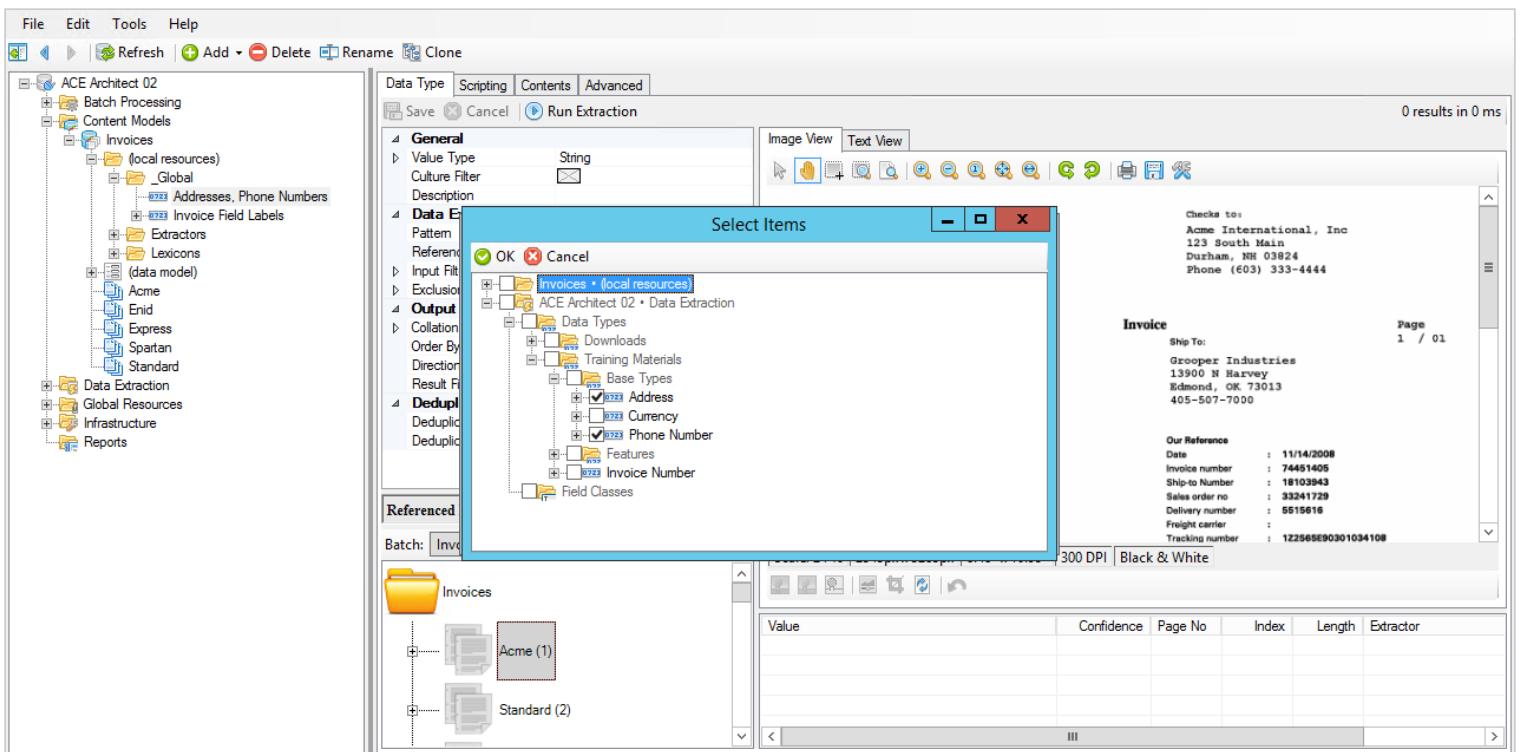
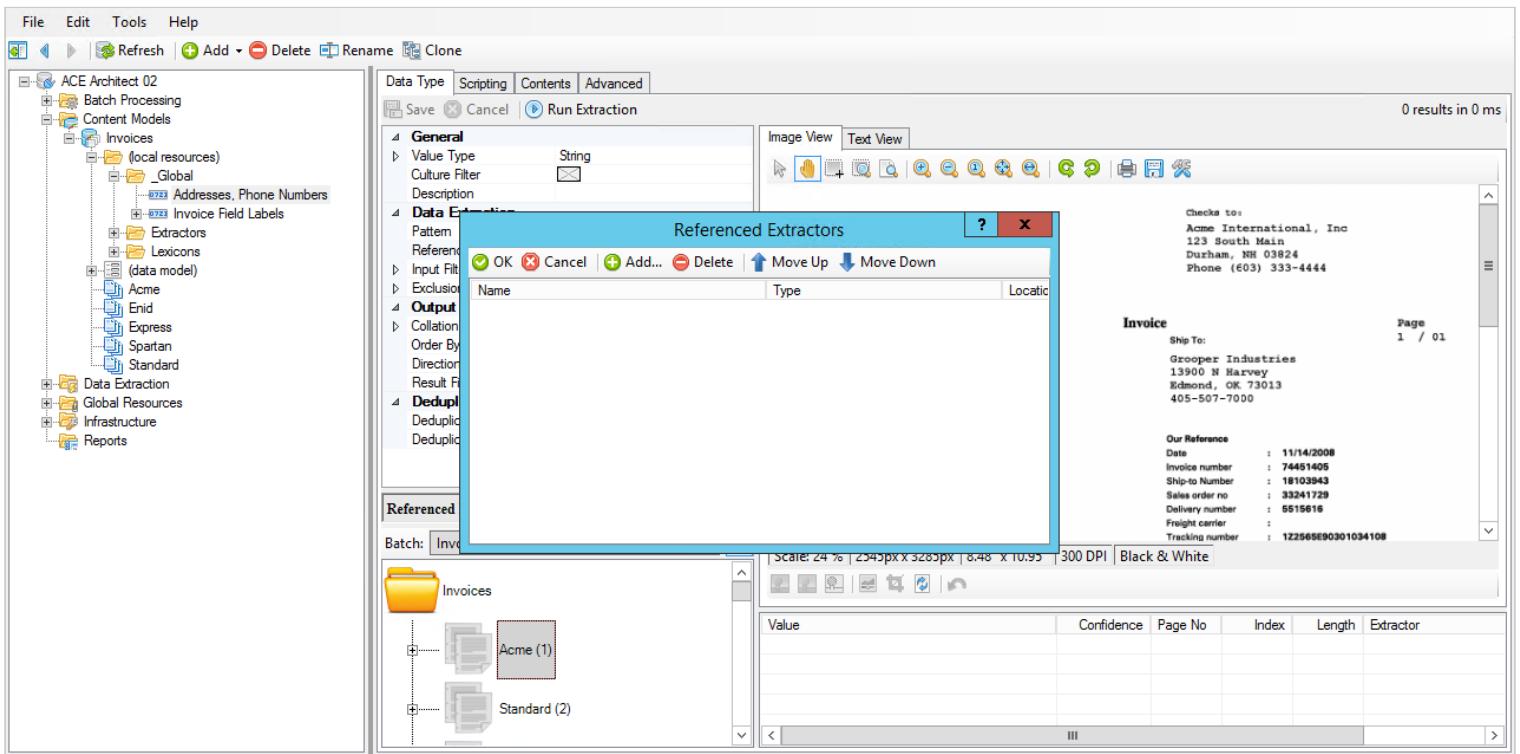
Value Confidence Page No Index Length Extractor

III



> Content Models / Invoices / (local resources) / _Global / Addresses, Phone Numbers

1. In the **Referenced Extractors** window, press **Add...**.
2. In the **Select Items** window, expand **(root) • Data Extraction > Data Types > Training Materials > Base Types** and check the following:
 - a. **Address**
 - b. **Phone Number**
3. Press **OK** to close the **Select Items** window.
4. Press **OK** to close the **Referenced Extractors** window.



ACE Architect 02

Invoices

- (local resources)
 - Global
 - Address, Phone Numbers
 - Invoice Field Labels
 - Extractors
 - Lexicons
- (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

Value Type String

Culture Filter

Description

Data Extraction

Pattern (empty)

Input Filter (empty)

Exclusion Extractor (empty)

Output

Collation Individual

Order By Position

Direction Ascending

Result Filter (empty)

Deduplication

Deduplicate Locations False

Deduplicate Values False

Referenced Extractors

OK Cancel Add... Delete Move Up Move Down

Name	Type	Location
Address	Data Type	Data Extraction • Data Types • Training Materials • Base Types
Phone Number	Data Type	Data Extraction • Data Types • Training Materials • Base Types

Batch: Invoices

Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Image View **Text View**

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565690301034108

Value Confidence Page No Index Length Extractor

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565690301034108

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Address, Phone Numbers
 - Invoice Field Labels
 - Extractors
 - Lexicons
- (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

Value Type String

Culture Filter

Description

Data Extraction

Pattern Address, Phone Number

Input Filter (empty)

Exclusion Extractor (empty)

Output

Collation Individual

Order By Position

Direction Ascending

Result Filter (empty)

Deduplication

Deduplicate Locations False

Deduplicate Values False

Referenced Extractors

Batch: Invoices

Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Image View **Text View**

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

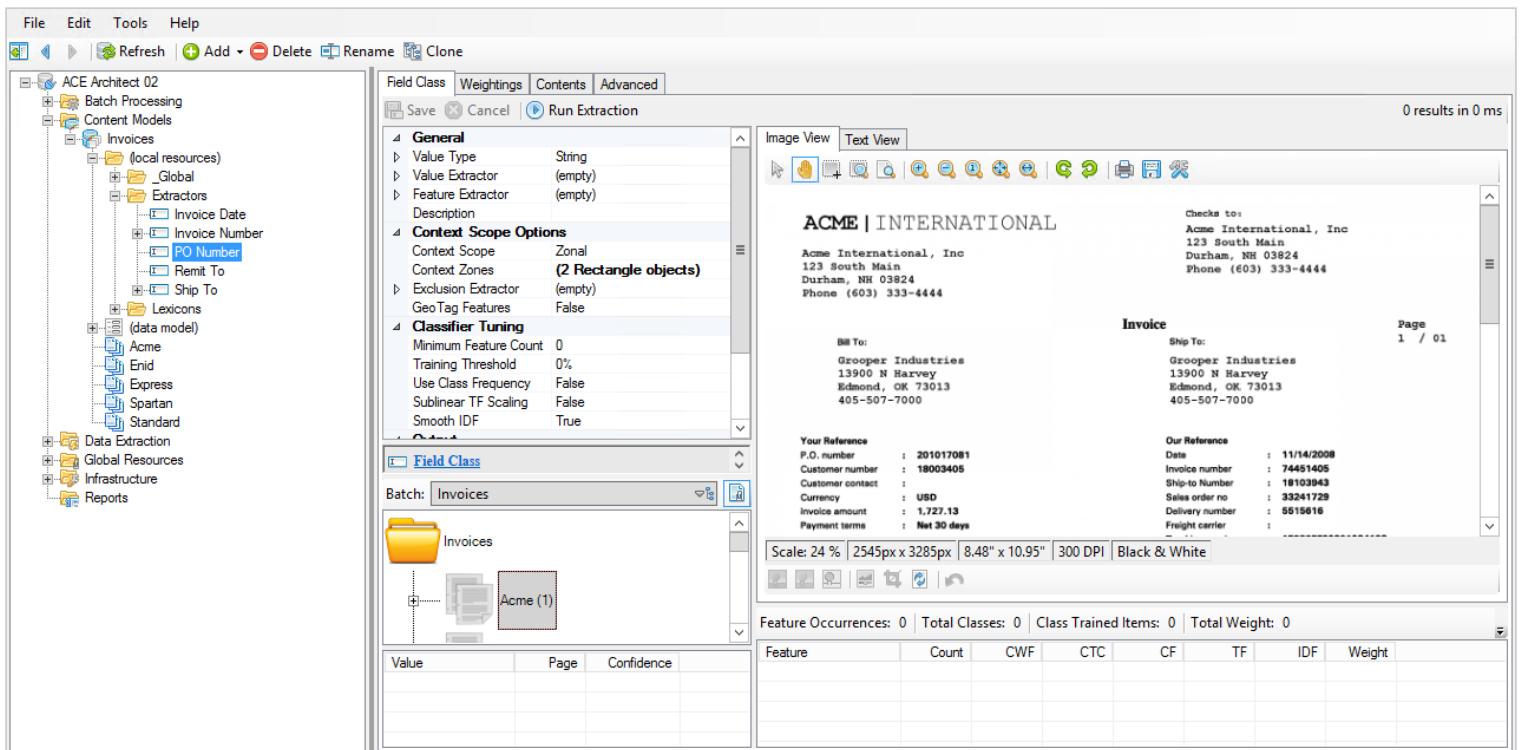
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565690301034108

Value Confidence Page No Index Length Extractor

1. Right click and select Add > Field Class... .
2. Name it PO Number .
3. Create a child Data Type of PO Number and name it [Values] PO Number .
4. On the [Values] PO Number Data Type, click to edit the Pattern .



ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation Individual
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Deduplicate Locations False
- Deduplicate Values False

Data Type

Batch: Invoices

Value

Confidence Page No Index Length Extractor

Image View Text View

ACME | INTERNATIONAL

Checks to:

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Bill To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	
Tracking number	:	122565690301034108

Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Invoice Page 1 / 01

Ship To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	
Tracking number	:	122565690301034108

Value Confidence Page No Index Length Extractor

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation Individual
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Deduplicate Locations False
- Deduplicate Values False

Pattern

Batch: Invoices

Value

Confidence Page No Index Length Extractor

Image View Text View

ACME | INTERNATIONAL

Checks to:

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Bill To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	
Tracking number	:	122565690301034108

Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Invoice Page 1 / 01

Ship To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	
Tracking number	:	122565690301034108

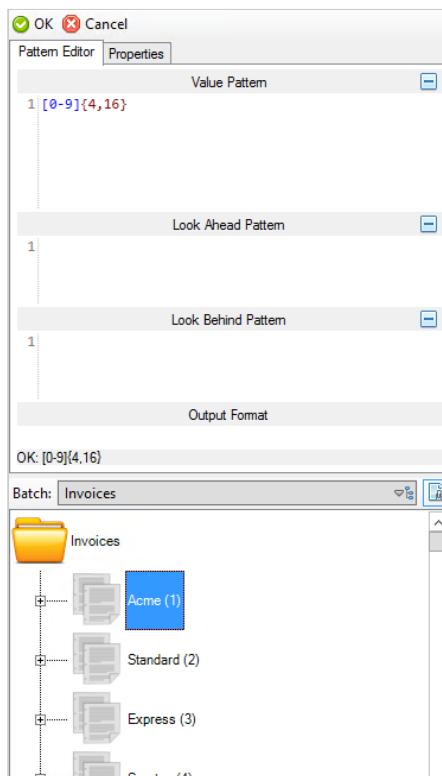
Value Confidence Page No Index Length Extractor

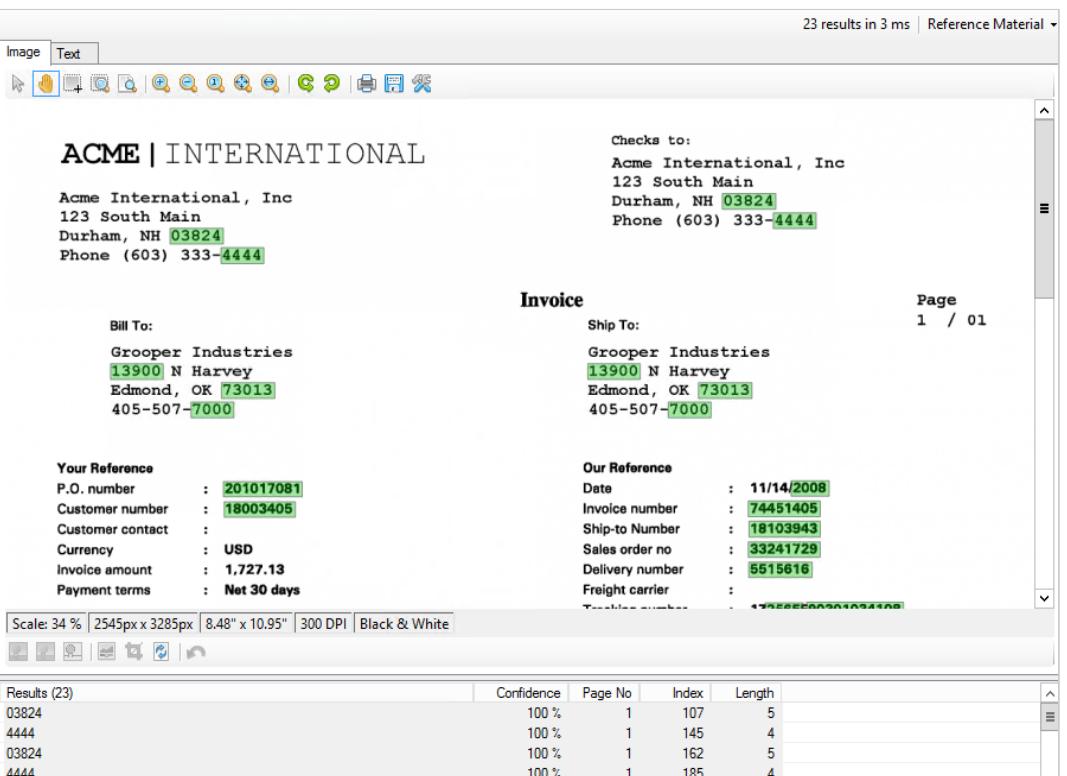
1. Edit the pattern(s):

Value Pattern

[0-9]{4,16}

2. Press OK.

OK Cancel
Pattern Editor Properties Value Pattern
1 [0-9]{4,16}

ACME | INTERNATIONAL
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444
Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000
Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days
Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :

Scale: 34 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White
Results (23)
03824 100 % 1 107 5
4444 100 % 1 145 4
03824 100 % 1 162 5
4444 100 % 1 185 4

Change the following property value(s):

Property	Default Value	New Value
Data Extraction		
Type	None	Reference
Referenced Extractor	-	Addresses, Phone Numbers

File Edit Tools Help

Refresh Add Rename Clone

Save Cancel Run Extraction 23 results in 1 ms

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

General Value Type String

Description

Data Extraction Pattern RegEx: [0-9]{4,16}

Referenced Extractors (empty)

Input Filter (empty)

Exclusion Extractor Addresses, Phone Numbers

Type Reference

Referenced Extractor Addresses, Phone Numbers

Output (none)

Collation Invoices • (local resources)

Order By Global

Direction

Result Filter

Deduplicate Extractors

Deduplicate Lexicons

Referenced Extractor Data Extraction • Data Types

Batch: Invoices

Image View Text View

ACME | INTERNATIONAL

Checks to:

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number : 201017081

Customer number : 18003405

Customer contact :

Currency : USD

Invoice amount : 1,727.13

Payment terms : Net 30 days

Our Reference

Date : 11/14/2008

Invoice number : 74451405

Ship-to Number : 10103943

Sales order no : 33241729

Delivery number : 5519616

Freight carrier :

Tracking number : 12256560301034108

Results (23)

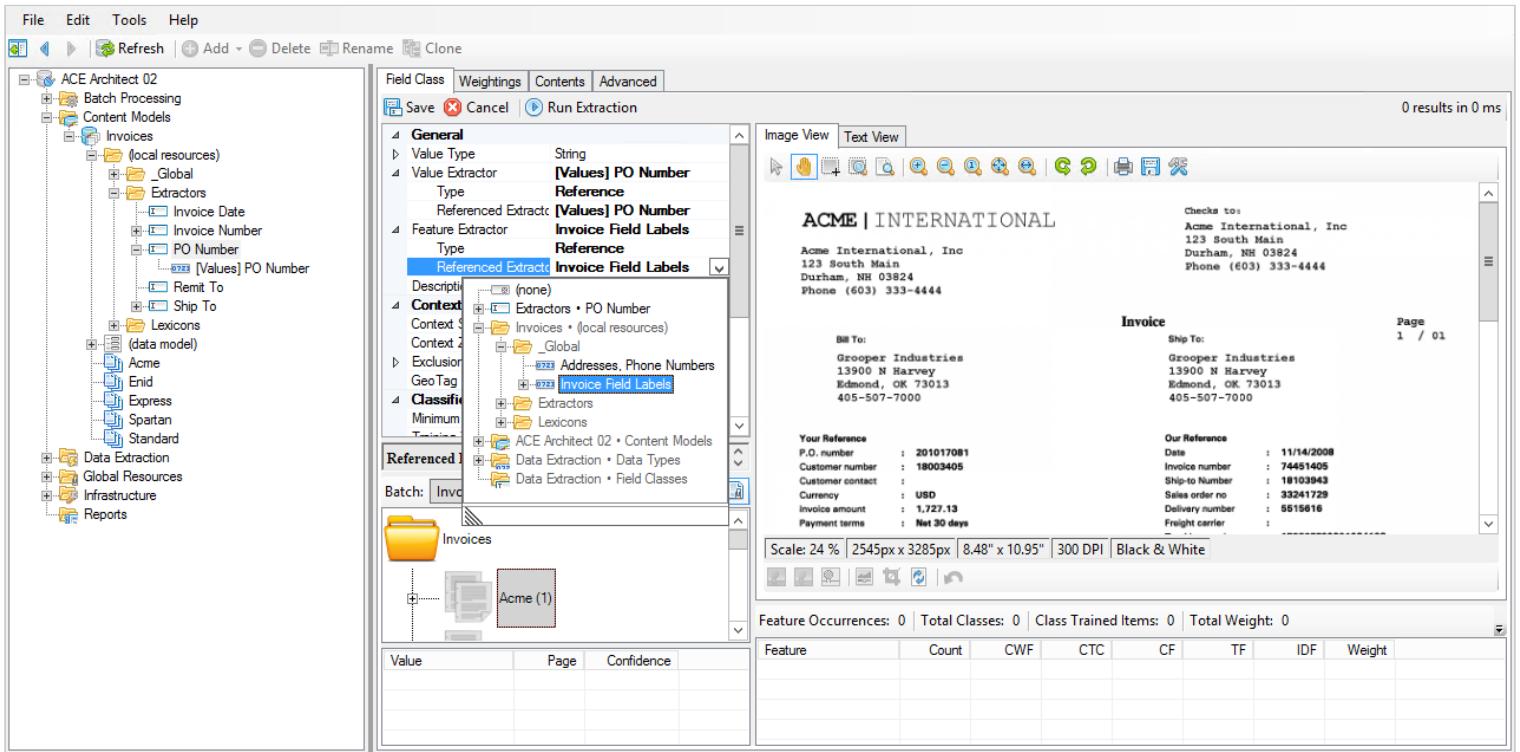
	Confidence	Page No	Index	Length	Extractor
03824	100 %	1	107	5	[Values] PO Number
4444	100 %	1	145	4	[Values] PO Number
03824	100 %	1	162	5	[Values] PO Number
4444	100 %	1	185	4	[Values] PO Number
12300	100 %	1	271	5	[Values] PO Number

> Content Models / Invoices / (local resources) / Extractors / **PO Number**

Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	[Values] PO Number
Feature Extractor		
Type	None	Reference
Referenced Extractor	-	Invoice Field Labels

The screenshot shows the ACE Architect 02 application interface. On the left, a tree view displays project structure under 'ACE Architect 02' including 'Batch Processing', 'Content Models', 'Invoices' (selected), 'Lexicons', 'Data model', 'Acme', 'Enid', 'Express', 'Spartan', 'Standard', 'Data Extraction', 'Global Resources', 'Infrastructure', and 'Reports'. The 'Invoices' node has sub-folders like 'local resources', '_Global', 'Extractors', and specific extractors for 'Invoice Date', 'Invoice Number', 'PO Number', 'Remit To', and 'Ship To'. The main workspace shows a 'Field Class' configuration window for extracting 'PO Number' from 'Value Type' and 'Value Extractor'. It includes sections for 'General', 'Value Type', 'Value Extractor', 'Context', 'Exclusion', 'Classification', and 'Referenced Extractors'. A preview of the extracted data is shown in 'Text View' and 'Image View' tabs. Below this, a generated PDF document titled 'ACME | INTERNATIONAL' is displayed, showing an invoice for 'Grooper Industries' with details like 'Bill To', 'Your Reference', and 'Our Reference'. The PDF also includes a scale bar (2545px x 3285px) and a feature occurrence summary at the bottom.



Content Models / Invoices / (local resources) / Extractors / **PO Number**

1. Select **Acme (1)**.
2. Press **Run Extraction**.
3. In the candidate list, find the value that has the appropriate feature(s) to train.
4. Right click and select **Train As Positive**.

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

General

- Value Type String
- Value Extractor [Values] PO Number
 - Type Reference
 - Referenced Extract [Values] PO Number
- Feature Extractor Invoice Field Labels
 - Type Reference
 - Referenced Extract Invoice Field Labels
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0.0

Referenced Extractor

Batch: Invoices

Batch: Invoices

Value	Page	Confidence
74451405	1	0.0000 %
33241729	1	0.0000 %
201017081	1	0.0000 %
000020	1	0.0000 %

Image View Text View

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

13 results in 54 ms

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
PO number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565E90301034108

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
po number	1	0	1.000000	1.000000	1.000000

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

General

- Value Type String
- Value Extractor [Values] PO Number
 - Type Reference
 - Referenced Extract [Values] PO Number
- Feature Extractor Invoice Field Labels
 - Type Reference
 - Referenced Extract Invoice Field Labels
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0.0

Referenced Extractor

Batch: Invoices

Batch: Invoices

Value	Page	Confidence
201017081	1	100.0000 %
000020	1	0.0000 %
103003	1	0.0000 %
000021	1	0.0000 %

Image View Text View

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

13 results in 40 ms

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
PO number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565E90301034108

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
po number	1	1	1.000000	1.000000	1.000000

1. Click to edit the **Context Zones**.
2. In the **Context Zones** window, edit the dimensions as follows:

Property	Zone 1	Zone 2
Left	-3.278	-0.67
Top	-0.054	-0.37
Right	0.312	0.5
Bottom	0.054	0.04

3. Press **OK**.
4. Change the following property value(s):

Property	Default Value	New Value
Output		
Minimum Confidence	0%	70%

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 16 results in 33 ms

General

- Value Type String
- Value Extractor [Values] PO Number
 - Type Reference
 - Referenced Extract [Values] PO Number
- Feature Extractor Invoice Field Labels
 - Type Reference
 - Referenced Extract Invoice Field Labels
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects) ...
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0.0

Context Zones

Batch: Invoices

Acme (1)

Standard (2)

Value Page Confidence

Value	Page	Confidence
209001161	1	57.7350 %
2008	1	0.0000 %
3018	1	0.0000 %
70328242140	1	0.0000 %

Image View Text View

ACCOUNT NUMBER
INVOICE NUMBER
INVOICE DATE
DUE DATE
AMOUNT DUE

PO NUMBER: 209001161

Scale: 73 % | 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

Feature Occurrences: 3 | Total Classes: 9 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
po number	1	1	0.333333	1.000000	0.333333
invoice amount	1	0	0.333333	1.000000	0.333333
due date	1	0	0.333333	1.000000	0.333333

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 16 results in 33 ms

General

- Value Type String
- Value Extractor [Values] PO Number
 - Type Reference
 - Referenced Extract [Values] PO Number

Context Zones

OK Cancel Add... Edit... Delete

Zone No	Region
Zone 1	(-3.278, -0.054):(0.312, 0.054)
Zone 2	(-1.05)(1.0)

Left Top Right Bottom Width Height

-3.278 -0.054 0.312 0.054 3.59 0.108

Left Type: Double Default: 0
The left edge of the rectangle.

Value Page Confidence

Value	Page	Confidence
209001161	1	57.7350 %
2008	1	0.0000 %
3018	1	0.0000 %
70328242140	1	0.0000 %

Image View Text View

ACCOUNT NUMBER

Context Zones

PO NUMBER: 209001161

Scale: 73 % | 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

Feature Occurrences: 3 | Total Classes: 9 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
po number	1	1	0.333333	1.000000	0.333333
invoice amount	1	0	0.333333	1.000000	0.333333
due date	1	0	0.333333	1.000000	0.333333

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 16 results in 33 ms

General

 - Value Type String
 - Value Extractor [Values] PO Number
 - Type Reference

Image View Text View

Context Zones

OK Cancel Add... Edit... Delete

Zone No	Region
Zone 1	(-3.278,-0.054):(0.312,0.054)
Zone 2	(-0.67,-0.37):(0.5,0.04)

Left -0.67
Top -0.37
Right 0.5
Bottom 0.04
Width 1.17
Height 0.41

Left
Type: Double Default: 0
The left edge of the rectangle.

Standard (2)

Value	Page	Confidence
209001161	1	57.7350 %
2008	1	0.0000 %
3018	1	0.0000 %
70328242140	1	0.0000 %

Feature Occurrences: 3 | Total Classes: 9 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
po number	1	1	0.333333	1.000000	0.333333
invoice amount	1	0	0.333333	1.000000	0.333333
due date	1	0	0.333333	1.000000	0.333333

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Invoice Date
 - Invoice Number
 - PO Number
 - [Values] PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 1 results in 32 ms

Context Scope Options

 - Context Scope Zonal
 - Context Zones (2 Rectangle objects)
 - Exclusion Extractor (empty)
 - GeoTag Features False

Classifier Tuning

 - Minimum Feature Count 0
 - Training Threshold 0%
 - Use Class Frequency False
 - Sublinear TF Scaling False
 - Smooth IDF True

Output

 - Minimum Confidence 70%
 - Collation Method Individual
 - Order By Confidence
 - Direction Descending

Minimum Confidence

Batch: Invoices

Acme (1)

Standard (2)

Value	Page	Confidence
209001161	1	100.0000 %

Image View Text View

ACCOUNT NUMBER
INVOICE NUMBER
INVOICE DATE
DUE DATE
AMOUNT DUE

PO NUMBER: 209001161

Scale: 73 % | 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 9 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
po number	1	1	1.000000	1.000000	1.000000

Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	PO Number
Behavior		
Required	False	True

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

Content Models

- Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard

Data Extraction

Global Resources

Infrastructure

Reports

PO Number

General

- Value Type: String
- Value Extractor: (empty)
- Minimum Confidence: 20%
- Sub-Element Name:
- Description:

Appearance

- Alignment: Left
- Display Width: 100
- Error Color: 255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True
- Label Position:

Data Field

Represents a field.

Remarks

Fields can be children of [Data Model](#) or [Data Section](#) objects. Field objects define characteristics such as:

- The appearance of the item in the [Index Panel](#).
- The default ESPTM Extraction settings. These settings can be overridden on

Batch: Invoices

PO Number

Data Field Preview

Document View Text View Instance View

ACME | INTERNATIONAL

Check To: ACME International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Page 1 / 01

Bill To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number :	201017081	Date :	11/14/2008
Customer number :	190004095	Invoice number :	74481405
Customer contact :		Ship-to Number :	18103343
Currency :	USD	Sales order no. :	33241729
Invoice amount :	1,727.13	Delivery number :	5515616
Payment terms :	Net 30 days	Freight carrier :	
		Tracking number :	122565E90301034108

Scale: 19 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

- Value Type: String
- Type: PO Number
- Reference: PO Number

Referenced Extractor

- Minimum Confidence: (none)
- Sub-Element Name: PO Number
- Description: Invoices * (local resources)

Appearance

- Alignment: MiddleLeft
- Display Width: 100
- Error Color: Red
- Background Color: Light Blue
- Foreground Color: Black

Referenced Extractor

Type: Grooper Node

When Type is set to 'Reference', specify the type of object to extract.

Property Type: Grooper Node

Grooper Nodes are objects which are at every level of the tree structure. All Grooper Node objects support

Batch: Invoices

Invoices

- Acme (1)
- Standard (2)

Data Field Preview

PO Number

Document View **Text View** **Instance View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	201017001
Customer number	180004005
Customer contact	18103943
Currency	USD
Invoice amount	1,727.13
Payment terms	Net 30 days

Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

ACE Architect 02

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

Label Position: Left **Label Alignment**: MiddleLeft

Behavior

- FieldSense™: Disabled
- Input Mask: Disabled
- Multi Line: Disabled
- Tooltip: (Text)
- Read Only: False
- Required**: True
- Sticky: False
- Requires Validation: False
- Character Casing: Normal
- Preserve Character Data: Dashed and DND Enabled

Required

Type: Boolean Default: False

If set to true, a value is required in the field.

Batch: Invoices

Invoices

- Acme (1)
- Standard (2)

Data Field Preview

PO Number

Document View **Text View** **Instance View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	201017001
Customer number	180004005
Customer contact	18103943
Currency	USD
Invoice amount	1,727.13
Payment terms	Net 30 days

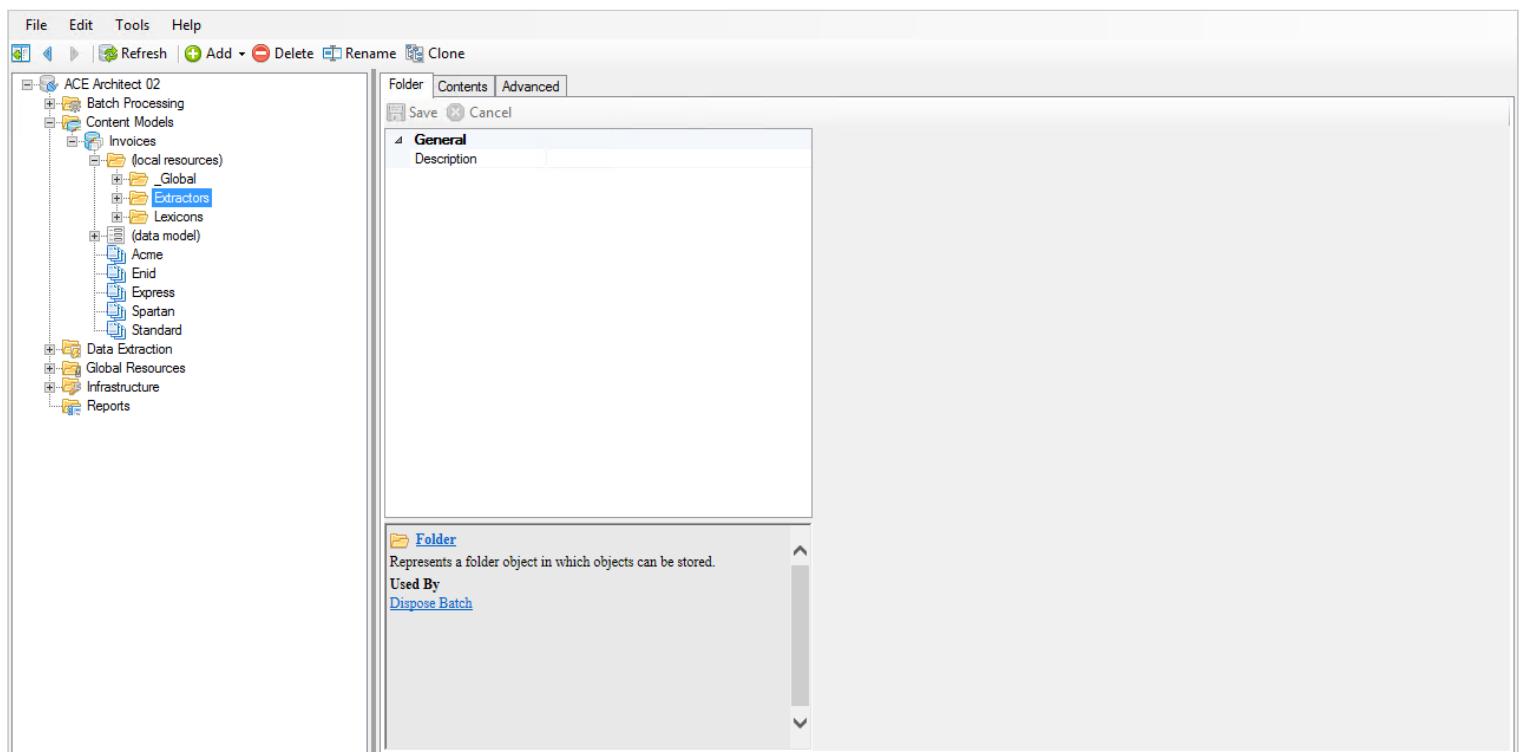
Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

Invoice Amount

> Content Models / Invoices / (local resources) / Extractors

1. Right click and select Add > Field Class... .

2. Name it Invoice Amount .



File Edit Tools Help

ACE Architect 02

Field Class **Weightings** **Contents** **Advanced**

Save **Cancel** **Run Extraction**

0 results in 0 ms

General

- Value Type: String
- Value Extractor: (empty)
- Feature Extractor: (empty)
- Description:

Context Scope Options

- Context Scope: Zonal
- Context Zones: (2 Rectangle objects)
- Exclusion Extractor: (empty)
- GeoTag Features: False

Classifier Tuning

- Minimum Feature Count: 0
- Training Threshold: 0%
- Use Class Frequency: False
- Sublinear TF Scaling: False
- Smooth IDF: True

Field Class

Batch: Invoices

Value Page Confidence

Image View **Text View**

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103843
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

Feature	Count	CWF	CTC	CF	TF	IDF	Weight

> Content Models / Invoices / (local resources) / Extractors / **Invoice Amount**

Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	Currency
Feature Extractor		
Type	None	Reference
Referenced Extractor	-	Invoice Field Labels

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class **Weightings** **Contents** **Advanced**

Save **Cancel** **Run Extraction**

Image View **Text View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice **Page**
1 / 01

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

Feature	Count	CWF	CTC	CF	TF	IDF	Weight

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class **Weightings** **Contents** **Advanced**

Save **Cancel** **Run Extraction**

Image View **Text View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice **Page**
1 / 01

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

Feature	Count	CWF	CTC	CF	TF	IDF	Weight

> Content Models / Invoices / (local resources) / Extractors / **Invoice Amount**

1. Select Acme (1).
2. Press Run Extraction .
3. In the candidate list, find the value that has the appropriate feature(s) to train.
4. Right click and select Train As Positive .

The screenshot shows the ACE Architect 02 interface with the following details:

- Left Panel (File Tree):** Shows the project structure under "ACE Architect 02". The "Invoices" folder contains "local resources" which include "Extractors" (with "Invoice Amount" selected), "Invoice Date", "Invoice Number", "PO Number", "Remit To", and "Ship To". Other sections like "Lexicons", "Data Extraction", and "Reports" are also listed.
- Central Panel (Extractor Configuration):**
 - General:** Value Type is String. Value Extractor is set to **Currency** with Type **Reference** and Referenced Extract **Invoice Field Labels**.
 - Feature Extractor:** Invoice Field Labels with Type Reference and Referenced Extract Invoice Field Labels.
 - Context Scope Options:** Context Scope is Zonal, Context Zones are (2 Rectangle objects).
 - Classifier Tuning:** Minimum Feature Count is 0.
- Right Panel (Extraction Results):**
 - Image View:** Shows a scanned invoice document with highlighted text fields.
 - Text View:** Displays extracted data in two sections: "Your Reference" and "Our Reference".

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD
Invoice amount	:	1,727.13
Payment terms	:	Net 30 days

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729
Delivery number	:	5515616
Freight carrier	:	
Tracking number	:	122565E90301034108
 - Invoice:** Shows the full scanned invoice with extracted fields.
 - Invoice details:** Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White
 - Feature Occurrences:** 1 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 1.000000
 - Feature Table:**

Feature	Count	CWF	TF	IDF	Weight
invoice amount	1	0	1.000000	1.000000	1.000000

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

Batch Processing

Content Models

Invoices

- (local resources)
 - _Global
 - Extractors
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard

Data Extraction

Global Resources

Infrastructure

Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 11 results in 8 ms

General

- Value Type String
- Value Extractor Currency
- Type Reference
- Referenced Extractor Currency
- Feature Extractor Invoice Field Labels
- Type Reference
- Referenced Extractor Invoice Field Labels
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0.0

Referenced Extractor

Batch: Invoices

Invoices

Acme (1)

Value	Page	Confidence
1,727.13	1	100.0000 %
984.53	1	0.0000 %
1,969.06	1	0.0000 %
12.50	1	0.0000 %

Image View [Text View] 1 / 01

Phone (603) 333-4444

Invoice

Bill To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565E90301034108

Invoice details
Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 1 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
invoice amount	1	1	1.000000	1.000000	1.000000

1. Click to edit the **Context Zones**.
2. In the **Context Zones** window, edit the dimensions as follows:

Property	Zone 1	Zone 2
Left	-4	-0.58
Top	-0.05	-0.36
Right	0.2	0.3
Bottom	0.1	0.05

3. Press **OK**.
4. Change the following property value(s):

Property	Default Value	New Value
Output		
Minimum Confidence	0%	70%

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard

Data Extraction Global Resources Infrastructure Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

11 results in 4 ms

General

 - Value Type String
 - Value Extractor Currency Reference
 - Type Reference
 - Referenced Extractor Currency
 - Feature Extractor Invoice Field Labels Reference
 - Type Reference
 - Referenced Extractor Invoice Field Labels
 - Description

Context Scope Options

 - Context Scope Zonal
 - Context Zones (2 Rectangle objects) ...
 - Inclusion Extractor (empty)
 - GeoTag Features False

Classifier Tuning

 - Minimum Feature Count 0
 - Training Threshold 0.0

Context Zones

Batch: Invoices

Invoices

Acme (1)

Value	Page	Confidence
1,727.13	1	100.0000 %
984.53	1	0.0000 %
1,969.06	1	0.0000 %
12.50	1	0.0000 %

Image View

Phone (603) 333-4444

Invoice

Bill To: Grooper Industries 13900 N Harvey Diamond, OK 73013 405-507-7000

Your Reference P.O. number : 201017081 Customer number : 18003405 Customer contact : Currency : USD Invoice amount : 1,727.13 Payment terms : Net 30 days

Ship To: Grooper Industries 13900 N Harvey Diamond, OK 73013 405-507-7000

Our Reference Date : 11/14/2008 Invoice number : 74451405 Ship-to Number : 18103943 Sales order no. : 33241729 Delivery number : 5515616 Freight carrier : Tracking number : 122565E90301034108

Invoice details

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | **Total Classes:** 1 | **Class Trained Items:** 0 | **Total Weight:** 1.000000

Feature	Count	CWF	TF	IDF	Weight
invoice amount	1	1	1.000000	1.000000	1.000000

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard

Data Extraction Global Resources Infrastructure Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

11 results in 4 ms

General

 - Value Type String
 - Value Extractor Currency Reference
 - Type Reference
 - Referenced Extractor Currency

Context Zones

OK **Cancel** **Add...** **Edit...** **Delete**

Zone No	Region
Zone 1	(-4.05):(0.2,0.1)
Zone 2	(-1.05):(1.0)

Left -4
Top -0.05
Right 0.2
Bottom 0.1
Width 4.2
Height 0.15000000000000002

Reference

Bill To: Grooper Industries 13900 N Harvey Diamond, OK 73013 405-507-7000

Your Reference P.O. number : 201017081 Customer number : 18003405 Customer contact : Currency : USD Invoice amount : 1,727.13 Payment terms : Net 30 days

Ship To: Grooper Industries 13900 N Harvey Diamond, OK 73013 405-507-7000

Our Reference Date : 11/14/2008 Invoice number : 74451405 Ship-to Number : 18103943 Sales order no. : 33241729 Delivery number : 5515616 Freight carrier : Tracking number : 122565E90301034108

Image View

Phone (603) 333-4444

Invoice

Bill To: Grooper Industries 13900 N Harvey Diamond, OK 73013 405-507-7000

Your Reference P.O. number : 201017081 Customer number : 18003405 Customer contact : Currency : USD Invoice amount : 1,727.13 Payment terms : Net 30 days

Ship To: Grooper Industries 13900 N Harvey Diamond, OK 73013 405-507-7000

Our Reference Date : 11/14/2008 Invoice number : 74451405 Ship-to Number : 18103943 Sales order no. : 33241729 Delivery number : 5515616 Freight carrier : Tracking number : 122565E90301034108

Invoice details

Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | **Total Classes:** 1 | **Class Trained Items:** 0 | **Total Weight:** 1.000000

Feature	Count	CWF	TF	IDF	Weight
invoice amount	1	1	1.000000	1.000000	1.000000

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Extractors
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

Context Zones

OK Cancel Add... Edit... Delete

Zone No	Region
Zone 1	(-4.05):(0.2,0.1)
Zone 2	(-0.58,-0.36)(0.3,0.05)

Left -0.58
Top -0.36
Right 0.3
Bottom 0.05
Width 0.8799999999999999
Height 0.41

To: Grooper Industries
900 N Harvey
Edmond, OK 73013
5-507-7000

Reference

 - Date : 11/14/2008
 - P.O. number : 74451405
 - Customer number : 18103943
 - Sales order no : 33241729
 - Delivery number : 5515616
 - Freight carrier :
 - Tracking number : 122565E90301034108

Left
Type: Double Default: 0
The left edge of the rectangle.

Feature Occurrences: 1 | Total Classes: 1 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
invoice amount	1	1	1.000000	1.000000	1.000000

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Extractors
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - End
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

Image View Text View

Context Scope Options

Context Scope: Zonal
Context Zones: (2 Rectangle objects)
Exclusion Extractor: (empty)
GeoTag Features: False

Classifier Tuning

 - Minimum Feature Count: 0
 - Training Threshold: 0%
 - Use Class Frequency: False
 - Sublinear TF Scaling: False
 - Smooth IDF: True

Output

Minimum Confidence: 50%

Collation Method: Individual
Order By: Confidence
Direction: Descending

Minimum Confidence

Batch: Invoices

Value	Page	Confidence
1,727.13	1	100.000 %
984.53	1	0.000 %
1,969.06	1	0.000 %
12.50	1	0.000 %

Invoice

Bill To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 122565E90301034108

Invoice details
Scale: 24 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Feature Occurrences: 1 | Total Classes: 1 | Class Trained Items: 0 | Total Weight: 1.000000

Feature	Count	CWF	TF	IDF	Weight
invoice amount	1	1	1.000000	1.000000	1.000000

Change the following property value(s):

Property	Default Value	New Value
General		
Value Type	String	Decimal
Format Specifier	-	c2

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

Data Field Contents Advanced

Save Cancel Test Extraction

General

- Value Type: String (empty)
- Value Extractor: Minimum Confidence: 20%
- Sub-Element Name: Description

Appearance

- Alignment: Left
- Display Width: 100
- Error Color: 255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True

Data Field
Represents a field.

Remarks
Fields can be children of Data Model or Data Section objects. Field objects define characteristics such as:

- The appearance of the item in the Index Panel.
- The default ESP™ Extraction settings. These settings can be overridden on

Batch: Invoices

Invoice Amount

Invoice Field Preview

Document View Text View Instance View

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	: 201017001	Date	: 11/14/2008
Customer number	: 180004009	Invoice number	: 74451409
Customer contact	:	Ship-to Number	: 18103943
Currency	: USD	Sales order no	: 33241729
Invoice amount	: 1,727.13	Delivery number	: 5515616
Payment terms	: Net 30 days	Freight carrier	:
		Tracking number	: 12356880301034108

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

Value Type **Decimal**

Value Extractor (empty)
Minimum Confidence 20%

Appearance

Alignment Left
Display Width 100
Error Color 255, 192, 192
Background Color Window
Foreground ColorWindowText
Visible True

Label Position

Value Type

Type: Storage Type. Default: String

Defines what type of information this field will contain. Can be one of the following values:

- Boolean - Represents a Boolean (true or false) value.
- Date/Time - Represents an instant in time, typically expressed as a date and/or time of day.
- Decimal - Represents a decimal value.

Batch: Invoices

Document View **Text View** **Instance View**

Invoice Amount

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number: 201017001
Customer number: 180004005
Customer contact: 18103943
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/14/2008
Invoice number: 744814005
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier: 123566890301034108

Page 1 / 01

Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

Value Type **Decimal**

Input Styles Any

Format Specifier c2

Input Cultures
Output Culture
Minimum Value
Maximum Value
Value Range -79228162514264337593543950335 to 792

Value Extractor (empty)
Minimum Confidence 20%

Appearance

Format Specifier

Type: String

Defines the numeric display format.

Remarks

Custom format specifiers can be created. Please see the following links for complete documentation:

- Standard Numeric Formats

Batch: Invoices

Document View **Text View** **Instance View**

Invoice Amount

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice
Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number: 201017001
Customer number: 180004005
Customer contact: 18103943
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/14/2008
Invoice number: 744814005
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier: 123566890301034108

Page 1 / 01

Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

> Content Models / Invoices / (data model) / **Invoice Amount**

Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Reference
Referenced Extractor	-	Invoice Amount
Behavior		
Required	False	True

File Edit Tools Help

Refresh Add Delete Rename Clone

Data Field Contents Advanced

Save Cancel Test Extraction

General

- Value Type: Decimal (empty)
- Value Extractor: Minimum Confidence: 20%
- Sub-Element Name: Description:
- Appearance**

 - Alignment: Left
 - Display Width: 100
 - Error Color: 255, 192, 192
 - Background Color: Window
 - Foreground Color:WindowText
 - Visible: True
 - Label Position: Left

Value Extractor

Type: Embedded Extractor

The default extractor to use for this field.

Remarks

The default extractor can be overridden on individual Content Types using a Field Profile.

Property Type: Embedded Extractor

Batch: Invoices

Document View Text View Instance View

Invoice Amount

Invoice Field Preview

Invoice Amount

ACME | INTERNATIONAL

Check To: ACME International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference

P.O. number:	201017081	Date:	11/14/2008
Customer number:	18003405	Invoice number:	74481405
Customer contact:		Ship-to Number:	18103343
Currency:	USD	Sales order no.:	33241729
Invoice amount:	1,727.13	Delivery number:	5515616
Payment terms:	Net 30 days	Freight carrier:	
		Tracking number:	122565E90301034108

Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White

The screenshot displays the ACE Architect 02 application interface. On the left, a navigation tree shows categories like Content Models, Invoices, and Reports. The main workspace is divided into several panes:

- Data Field Editor:** Shows a 'General' tab with 'Value Type' set to 'Decimal'. A dropdown menu lists 'Invoice Amount' as a 'Referenced Extractor'. Other options include 'Value Extractor' and 'Type'.
- Document View:** Displays a sample invoice for 'ACME | INTERNATIONAL' to 'Grocery Industries' with details like address, phone number, and payment terms.
- Properties:** A detailed view of the 'Grocery Node' properties, including its type as 'Grooper Node' and its support across various extractor types.
- Batch View:** Shows a list of batches: 'Invoices' (selected), 'Acme (1)', and 'Standard (2)'.

At the bottom, a status bar indicates the scale (19%), dimensions (2545px x 3285px), resolution (8.48" x 10.95"), and color mode (Black & White).

The screenshot shows the ACE Architect 02 application interface. On the left is a navigation tree with sections like Batch Processing, Content Models, Invoices, and Reports. The 'Invoices' section is expanded, showing sub-items like (local resources), (data model), PO Number, Invoice Date, Freight, Sales Tax, Discount, Invoice Amount, Payment Terms, Ship To, Remit To, and several company logos (Acme, Enid, Express, Spartan, Standard). The main workspace is titled 'Data Field' and contains configuration tabs for 'Contents' and 'Advanced'. A 'Save' button is highlighted. Below the tabs is a table with columns 'Label Position' (Left) and 'Label Alignment' (MiddleLeft). A 'Behavior' section includes fields for 'FieldSense™' (Disabled), 'Input Mask' (Disabled), 'Tooltip' (Text), 'Read Only' (False), and 'Required' (True, which is selected). A 'Database Lookup' section is also present. To the right is a 'Data Field Preview' window showing an invoice amount field. At the bottom are tabs for 'Document View', 'Text View', and 'Instance View', followed by a toolbar with various icons. The preview area shows an invoice from 'ACME | INTERNATIONAL' to 'Groggers Industries' with details like address, phone number, and payment terms. The footer displays scale information: Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White.

Payment Terms

> Content Models / Invoices / (data model) / **Payment Terms**

Change the following property value(s):

Property	Default Value	New Value
General		
Value Extractor		
Type	None	Internal
Pattern	(Click to edit)	(Click to edit)

File Edit Tools Help

Refresh Add Delete Rename Clone

Data Field Contents Advanced

Save Cancel Test Extraction

General

- Value Type String (empty)
- Value Extractor Minimum Confidence 20%
- Sub-Element Name
- Description
- Appearance
- Behavior
- FieldSense™
- Input Mask
- Multi Line
- Tooltip (Text)
- Read Only
- Required
- Sticky
- Requires Validation
- Character Casing Normal
- Preserve Character Data
- Rubberband OCR Profile

Database Lookup

Batch: Invoices

Invoices

Acme (1)

Standard (2)

Payment Terms

Document View Text View Instance View

ACME | INTERNATIONAL

Ship To: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

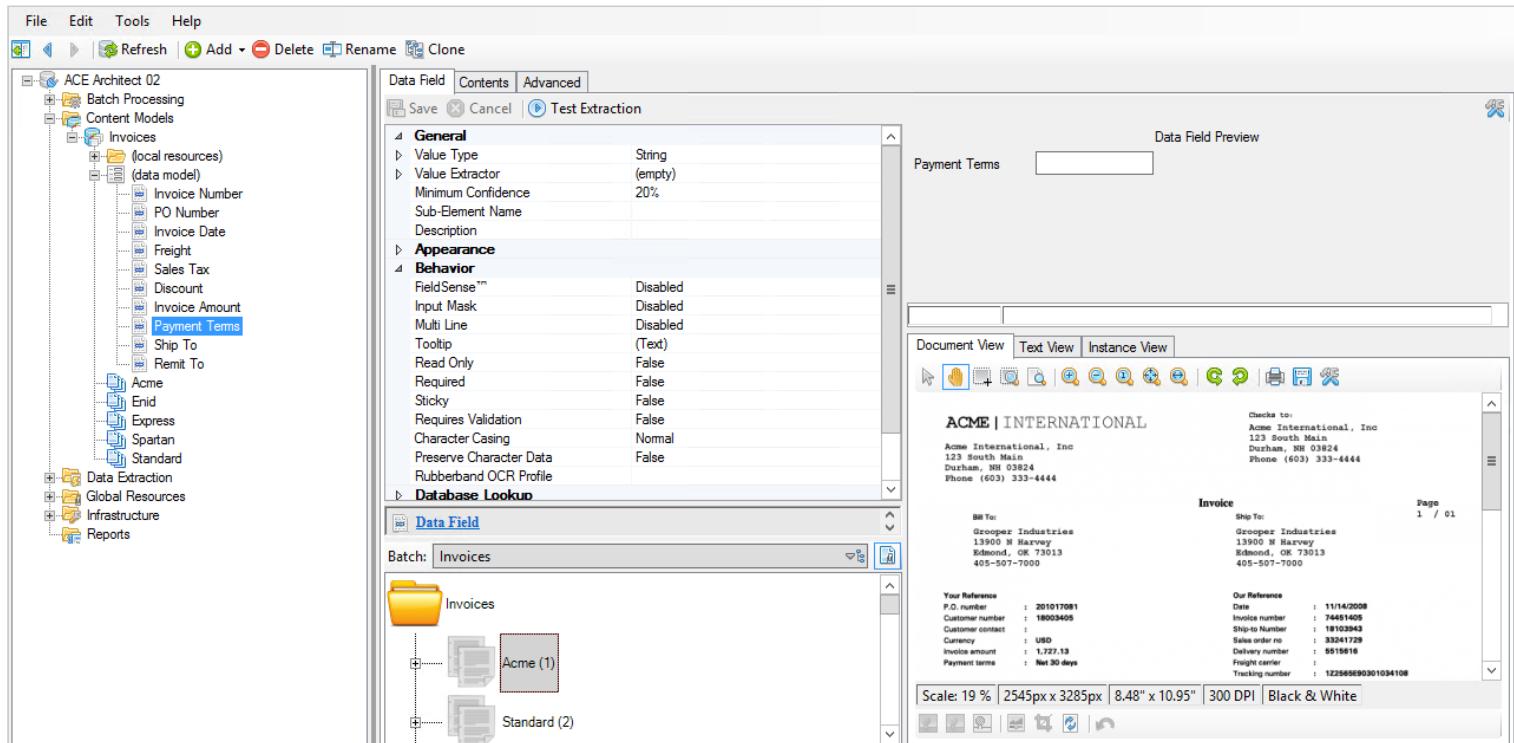
Invoice

Ship To: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	201017001	Date	11/14/2008
Customer number	189003405	Invoice number	74481405
Customer contact		Ship-to Number	18123043
Currency	USD	Sales order no.	33241729
Invoice amount	1,727.13	Delivery number	5515616
Payment terms	Net 30 days	Freight carrier	
		Tracking number	12356890301034108

Scale: 19% 2545px x 3285px 8.48" x 10.95" 300 DPI Black & White



File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

> Content Models / Invoices / (data model) / **Payment Terms**

1. Select **Acme (16)**.
2. Edit the pattern(s):

Value Pattern

n[eo]t ([@Number]{2})

Output Format

3. Press **OK**.

OK Cancel

Pattern Editor Properties

Value Pattern

```
1 n[eo]t-([@Number]{2})
```

Look Ahead Pattern

1

Look Behind Pattern

1

Output Format

```
Net {1:Number}  
OK:n[eo]t-([0-9]{2}){2}
```

Batch: Invoices

- Standard (15)
- Acme (16)**
- Express (17)
- Enid (18)
- Acme (19)

Image Text

Bill To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:

Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	010013809
Customer number	:	
Customer contact	:	Ken Storti
Currency	:	USD
Invoice amount	:	2,432.98
Payment terms	:	Net 30 days

Our Reference

Date	:	12/05/2008
Invoice number	:	74454835
Ship-to Number	:	18103443
Sales order no	:	33247493
Delivery number	:	5519238
Freight carrier	:	

Invoice details

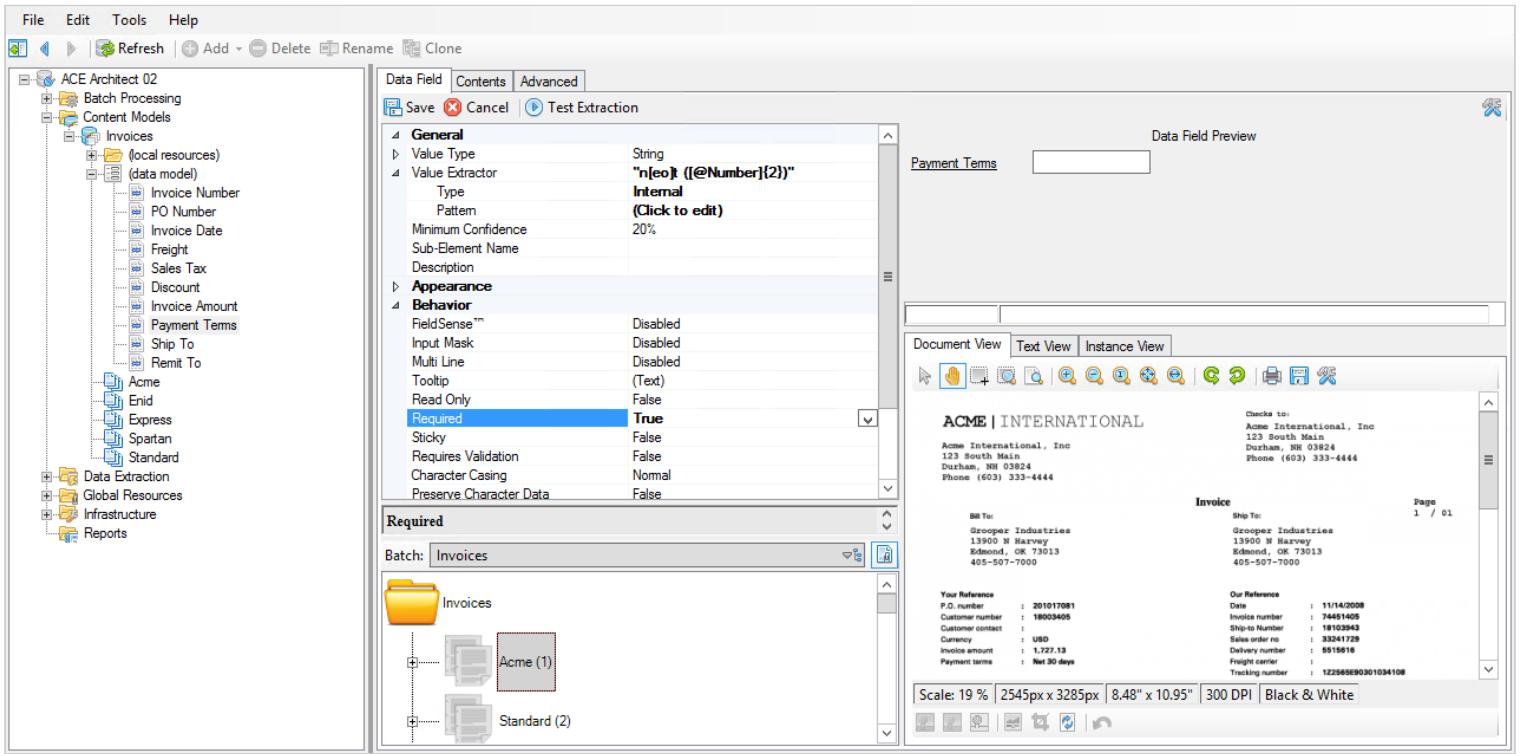
Item	Material
Scale: 34 % 2533px x 3276px 8.44" x 10.92" 300 DPI Black & White	

Results (1)	Confidence	Page No	Index	Length
Net 30	100 %	1	628	6

Content Models / Invoices / (data model) / **Payment Terms**

Change the following property value(s):

Property	Default Value	New Value
Behavior		
Required	False	True



Freight

Content Models / Invoices / (local resources) / **Extractors**

1. Right click and select Add > Data Type... .
2. Name it **Freight** .

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Folder
Represents a folder object in which objects can be stored.
Used By
[Dispose Batch](#)

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

General
Value Type: String
Culture Filter:
Description:
Data Extraction
Pattern: (empty)
Referenced Extractors: (empty)
Input Filter: (empty)
Exclusion Extractor: (empty)
Output
Collation: Individual
Order By: Position
Direction: Ascending
Result Filter: (empty)
Deduplication
Deduplicate Locations: False
Deduplicate Values: False

Image View **Text View**

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice **Page 1 / 01**

Bill To:	Grooper Industries 13900 N Harvey Edmond, OK 73013 405-507-7000
Ship To:	Grooper Industries 13900 N Harvey Edmond, OK 73013 405-507-7000
Your Reference	Date: 11/14/2008 Invoice number: 74451405 Customer contact: 18103943 Currency: USD Invoice amount: 1,727.13 Payment terms: Net 30 days
Our Reference	Date: 11/14/2008 Invoice number: 33241729 Ship-to Number: 551516 Sales order no: 122565690301034108 Delivery number: 122565690301034108 Freight carrier: Tracking number:

Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Batch: Invoices

Value **Confidence** **Page No.** **Index** **Length** **Extractor**

Acme (1)
Standard (2)

1. As child extractors under the Freight Data Type, create:

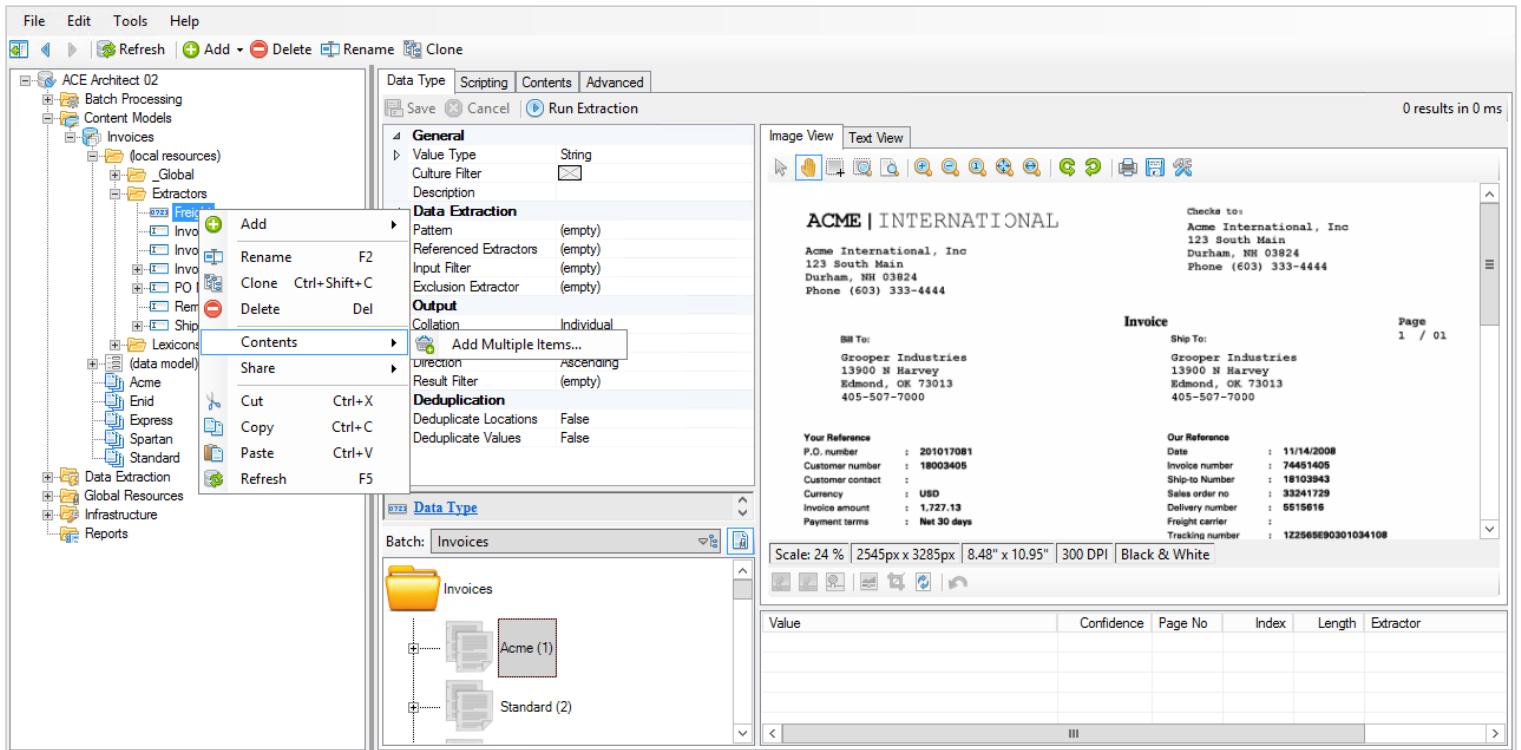
a. Data Format: Acme

b. Data Format: Enid

c. Data Format: Express

d. Data Format: Standard

e. Data Type: Spartan



ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Contents • Add Multiple Items

General

Item Type: Item Names

Data Format: 0 entries

Item Names

Type: String

The names of the child items to create.

Remarks

For each name provided in the list, a child item of the specified Item Type will be created.

Execute Cancel

0 results in 0 ms

Checks to: Acme International, Inc 123 South Main Durham, NH 03824 Phone (603) 333-4444

Invoice

Ship To: Grooper Industries 13900 N Harvey Edmond, OK 73013 405-507-7000

Our Reference

Date	: 11/14/2008
Invoice number	: 74451405
Ship-to Number	: 18103943
Sales order no	: 33241729
Delivery number	: 5515616
Freight carrier	:
Tracking number	: 122565690301034108

Black & White

Value Page No Index Length Extractor

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Extractors
 - Freight
 - Add
 - Rename F2
 - Clone Ctrl+Shift+C
 - Delete Del
 - Contents
 - Share
 - Cut Ctrl+X
 - Copy Ctrl+C
 - Paste Ctrl+V
 - Refresh F5

Contents • Add Multiple Items

General

Value Type: String

Culture Filter

Description

Add

 - A Data Format...
 - B Data Type...
 - Input Filter (empty)
 - Exclusion Extractor (empty)

Output

Collation: Individual

Order By: Position

Direction: Ascending

Result Filter (empty)

Deduplication

Deduplicate Locations: False

Deduplicate Values: False

Image View

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Checks to: Acme International, Inc 123 South Main Durham, NH 03824 Phone (603) 333-4444

Invoice

Ship To: Grooper Industries 13900 N Harvey Edmond, OK 73013 405-507-7000

Your Reference

P.O. number	: 201017081
Customer number	: 18003405
Customer contact	:
Currency	: USD
Invoice amount	: 1,727.13
Payment terms	: Net 30 days

Scale: 24% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Value Confidence Page No Index Length Extractor

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

Data Format Contents Advanced

Save Cancel Generate...

0 results in 0 ms | Reference Material

Pattern Editor Properties

Value Pattern

Look Ahead Pattern

Look Behind Pattern

Output Format

-Empty Expression-

Batch: Invoices

Image Text

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

P.O. number	:	201017081
Customer number	:	18003405
Customer contact	:	
Currency	:	USD

Our Reference

Date	:	11/14/2008
Invoice number	:	74451405
Ship-to Number	:	18103943
Sales order no	:	33241729

Scale: 27 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Results (0)

Confidence Page No Index Length

Invoices

Acme (1)

Standard (2)

Edit the patterns for each of the Data Formats:

- Acme

Make sure to enable Tab Marking

Value Pattern

([@Number.] {3,12})

Look Ahead Pattern

Look Behind Pattern

Output Format

- Enid

Value Pattern

([@Number.] {3,12})

Look Ahead Pattern

Look Behind Pattern

Output Format

- Express

Value Pattern

([@Number.] {3,12})

Look Ahead Pattern

Output Format

- Standard

Value Pattern

([@Number.] {3,12})

Look Ahead Pattern

Output Format

The screenshot shows the ACE Architect 02 software interface. The left sidebar displays a project structure with nodes like 'Batch Processing', 'Content Models', 'Invoices' (selected), 'Lexicons', 'Data model', 'Data Extraction', 'Global Resources', 'Infrastructure', and 'Reports'. The main area has tabs for 'Data Format', 'Contents', and 'Advanced'. Under 'Data Format', there are sections for 'Pattern Editor' (Value Pattern: `1 ([@Number.]{3,12})`, Look Ahead Pattern: `1 WS.FREIGHT[0o]231[^n]+n`, Look Behind Pattern: `1 \n\n`) and 'Output Format' (`{1:Number}`, OK: `(?<=WS.FREIGHT[0o]231[^n]+n[^n]+n[^t]+t[^v]+`). A 'Batch' dropdown is set to 'Invoices'. The right side shows a results pane with 1 result found in 13 ms, a reference material section, and an image viewer displaying 'Invoice details' with a table of items and their values.

The screenshot shows the ACE Architect 02 interface. On the left, the project tree includes 'Batch Processing', 'Content Models', 'Invoices' (selected), 'Lexicons (data model)', 'Data Extraction', 'Global Resources', 'Infrastructure', and 'Reports'. The 'Invoices' node has sub-folders like 'Global', 'Extractors', 'Freight' (with 'Acme', 'Enid', 'Express', 'Standard', 'Spartan'), 'Invoice Amount', 'Invoice Date', 'Invoice Number', 'PO Number', 'Remit To', 'Ship To', and 'Lexicons (data model)' with entries for 'Acme', 'Enid', 'Express', 'Spartan', and 'Standard'. The 'Data Format' tab is active, showing 'Value Pattern' (1 (@Number.{3,12})), 'Look Ahead Pattern' (1 020-0027[^n]*?n[^r]*?), 'Look Behind Pattern' (1 \n\n), and 'Output Format' (Batch: Invoices). Below this is a 'Pattern Editor' with three server icons labeled 'Acme (9)', 'Enid (10)' (highlighted in blue), and 'Acme (11)'. The main workspace displays a generated PDF report. The header of the PDF includes 'Image Text' buttons, 'TO: Edmond, OK 73013', and 'TO: Edmond, OK 73013'. The PDF content is a purchase order with the following details:

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100050168	12-02-08	CUS001605	099321	201017532	FX1	12-02-08	Net 30
ITEM NUMBER				ITEM DESCRIPTION			
QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE		
7710.1262.3 1.0000	Packing Slip No. : 100093070 1.0000	D ea	Block, Mtg., Hot Head 238.6800 Gross		238.680		
020-0027 1.0000			Shipping and Handling 60.0000 Gross		60.000		
Order	Discount	Amount			-52.510		

At the bottom, the status bar shows 'Scale: 27 % | 2548px x 3288px | 8.49" x 10.96" | 300 DPI | Black & White'. The results panel at the bottom right shows 'Results (1) | Confidence 100 % | Page No 1 | Index 743 | Length 6'.

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
- Invoices
 - (local resources)
 - Global
 - Extractors
 - Freight
 - Acme
 - Enid
 - Express
 - Standard
 - Spartan
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Format **Contents** **Advanced**

Save Cancel Generate...

Pattern Editor Properties

Value Pattern
1 (@Number.){3,12}

Look Ahead Pattern
1 shipping_charge?:?[^d]{0,4}

Look Behind Pattern
1 \r\n

Output Format
{1:Number}
OK: (?<shipping charge?:?[^d]{0,4})|([0-9][0GgSsBuuD.]{3,12})

Batch: Invoices

 - Enid (5)
 - Express (6)

Image Text

Klamona, OR 73013
405-507-7000

Vendor Number: M00000032
Customer Account Number: 138463500

Line	McMaster Part Number	Description/Customer ID #	You Ordered	We Shipped	Balance Due	Unit Price	Extended Amount
1	4192A54	CARBIDE-TIPPED HOLE SAW, 6" DIAMETER, 1-1/2"	1	1	0	78.34	78.34

Merchandise Amount: 78.34
Shipping Charge: 4.37
Invoice Total: \$82.71

The material billed on this invoice was shipped as follows:
McMaster Packing List Number: 1133638-01 Shipped Via: FEDEX GRND PPD on December 2, 2008
Total Packages: 1 Total Weight: 3 lbs

Scale: 28 % | 2498px x 3287px | 8.33" x 10.96" | 300 DPI | Black & White

Results (1)

Confidence	Page No	Index	Length
100 %	1	807	4

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
- Invoices
 - (local resources)
 - Global
 - Extractors
 - Freight
 - Acme
 - Enid
 - Express
 - Standard
 - Spartan
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Format **Contents** **Advanced**

Save Cancel Generate...

Pattern Editor Properties

Value Pattern
1 (@Number.){3,12}

Look Ahead Pattern
1 shipping_charge\s

Look Behind Pattern
1

Output Format
{1:Number}
OK: (?<shipping charge\s)|([0-9][0GgSsBuuD.]{3,12})

Batch: Invoices

 - Acme (1)
 - Standard (2)

Image Text

NUMBER OF PKGS: 0 WEIGHT: 3.20
DATE SHIPPED: 11/1/2008
CARRIER: UPS GROUND REGIONAL
TRACKING NO: 123018W7032842140

These items are sold for domestic consumption in the United States. If exported, purchaser assumes full responsibility for compliance with US export controls.

PAYMENT TERMS NET 30 DAYS. PAY THIS INVOICE NO STATEMENT SENT PAYABLE IN U.S. DOLLARS.

AMOUNT DUE 51.17

PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT.

Scale: 27 % | 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

Results (1)

Confidence	Page No	Index	Length
100 %	1	688	4

1. Create two Data Formats as children of the `Spartan` Data Type:

a. `Freight`

b. `Value 1`

2. Edit the pattern(s):

- Freight

Value Pattern

`freight`

- Value 1

Value Pattern

`[\d.]+`

3. Right click on the `Value 1` Data Format and select `Clone`.

4. Name the clone `Value 2`.

ACE Architect 02

Invoices

- (local resources)
 - Extractors
 - Freight
 - Acme
 - Enid
 - Express
 - Standard
 - Spartan
 - Freight
 - Value 1
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
- Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation Individual
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Deduplicate Locations False
- Deduplicate Values False

Image View **Text View**

Spartan

INVOICE

SHIP TO (SAME AS "SOLD TO" UNLESS SHOWN)

Grooper Industries
13900 N Harvey
Edmond, OK 73013

INVOICE DATE
11/10/08 ORIGINAL

INVOICE NUMBER
MA20-552100

PO / RELEASE NUMBER
201011309

SOLD TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013

REMIT TO:
Spartan Manufacturing
12 West Laguna Dr
Irvine, Ca, 92612

TAKEN BY: DN

ORDER DATE	TERMS	SHIP DATE	SHIP VIA	ACCT NUMBER	FOB
11/10/08	1t 10&25thNET 30	11/10/08	DIRECT SHIP R&L CARRIERS	194306-01	FOB ORG,FRT PPA
10/24/08	OCN: 409171	Comments: FREIGHT MA20 ONLY			

PAGE 1 OF 1

Scale: 26 % | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Value **Confidence** **Page No** **Index** **Length** **Extractor**

III

ACE Architect 02

Invoices

- (local resources)
 - Extractors
 - Freight
 - Acme
 - Enid
 - Express
 - Standard
 - Spartan
 - Freight
 - Value 1
 - Value 1
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Format

Pattern Editor

Value Pattern

1 freight

Look Ahead Pattern (click to expand)

Look Behind Pattern (click to expand)

Output Format

OK: freight

Image **Text**

Spartan

INVOICE

SHIP TO (SAME AS "SOLD TO" UNLESS SHOWN)

Grooper Industries
13900 N Harvey
Edmond, OK 73013

INVOICE DATE
11/10/08 ORIGINAL

INVOICE NUMBER
MA20-552100

PO / RELEASE NUMBER
201011309

SOLD TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013

REMIT TO:
Spartan Manufacturing
12 West Laguna Dr
Irvine, Ca, 92612

TAKEN BY: DN

ORDER DATE	TERMS	SHIP DATE	SHIP VIA	ACCT NUMBER	FOB
11/10/08	1t 10&25thNET 30	11/10/08	DIRECT SHIP R&L CARRIERS	194306-01	FOB ORG,FRT PPA
10/24/08	OCN: 409171	Comments: FREIGHT MA20 ONLY			

PAGE 1 OF 1

Scale: 27 % | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Results (3) **Confidence** **Page No** **Index** **Length**

FREIGHT	100 %	1	641	7
FREIGHT	100 %	1	818	7
FREIGHT	100 %	1	1006	7

Spartan

INVOICE

Manufacturing

SHIP TO (SAME AS "SOLD TO" UNLESS SHOWN)

**12 West Laguna Dr
Irvine, CA 92612**

**Phone: (800) 111-22222
Fax: (308) 333-1182**

INVOICE DATE
11/10/08 ORIGINAL

INVOICE NUMBER
MA20-552100

P/O RELEASE NUMBER
201011309

SOLD TO

**Grooper Industries
13900 N Harvey
Edmond, OK 73013**

REMIT TO:
**Spartan Manufacturing
12 West Laguna Dr
Irvine, Ca, 92612**

ENT BY: MA203338 TAKEN BY: DN PAGE 1 OF 1

ORDER DATE 11/10/08	TERMS 10 ²⁵ E/NET 30	SHIP DATE 11/10/08	SHIP VIA DIRECT SHIP & CARRIERS	ACCT NUMBER 194306-01	FOB ORG, FRT PPA ONLY
SHIPPING DATE 10/24/08	OCN: 000171	COMMENTS FREIGHT MA20 ONLY			

Scale: 27 % | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Results (74)

	Confidence	Page No	Index	Length
0	100 %	1	26	1
12	100 %	1	32	2
92612	100 %	1	62	5
11	100 %	1	123	2
10	100 %	1	126	2

Value Pattern

1 (@Number.){3,12}

Look Ahead Pattern

1 shipping_charge\s

Look Behind Pattern

1

Output Format

{1:Number}

OK: (?<shipping_charge\s)((0-9|OoGgSeBUuD){3,12})

ENT BY: MA203338 TAKEN BY: DN PAGE 1 OF 1

NUMBER OF PKGS: 0 WEIGHT: 3.20	INVOICE SUB TOTAL 40.56
DATE SHIPPED: 11/1/2008	SHIPPING CHARGE 7.71
CARRIER: UPS GROUND REGIONAL	TAX 2.90
TRACKING NO: 123018W7032842140	

These items are sold for domestic consumption in the United States. If exported, purchaser assumes full responsibility for compliance with US export controls.

PAYMENT TERMS NET 30 DAYS. PAY THIS INVOICE NO STATEMENT SENT PAYABLE IN U.S. DOLLARS.

AMOUNT DUE 51.17

PLEASE DETACH THIS PORTION AND RETURN WITH YOUR PAYMENT.

Scale: 27 % | 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

Results (1)

	Confidence	Page No	Index	Length
7.71	100 %	1	688	4

1. Select the Spartan Data Type.

2. Change the following property value(s):

Property	Default Value	New Value
Output		
Collation	Individual	Ordered Array
Vertical Layout	Disabled	Enabled
Maximum Distance	0.25	0.25
Combine Method	Sum	Sum

File Edit Tools Help

Refresh Add Delete Rename Clone

Data Type Scripting Contents Advanced

Save Cancel Run Extraction 151 results in 2 ms

General

- Value Type: String
- Culture Filter:
- Description:

Data Extraction

- Pattern: (empty)
- Referenced Extractors: (empty)
- Input Filter: (empty)
- Exclusion Extractor: (empty)

Output

- Collation: Individual
- Order By: Position
- Direction: Ascending
- Result Filter: (empty)

Deduplication

- Deduplicate Locations: False
- Deduplicate Values: False

Spartan

INVOICE

Manufacturing
12 West Laguna Dr
Irvine, CA 92612

SHIP TO (SAME AS "SOLD TO" UNLESS SHOWN)
Grooper Industries
13900 N Harvey
Edmond, OK 73013

Phone: (800) 111-22222
Fax: (800) 553-1182

INVOICE DATE
12/10/08 ORIGINAL

INVOICE NUMBER
MA20-552100

PO / RELEASE NUMBER
201011309

SOLD TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013

REMIT TO:
Spartan Manufacturing
12 West Laguna Dr
Irvine, Ca, 92612

ENT BY: MA203318

ORDER DATE	TERMS	SHIP DATE	SHIP VIA	TAKEN BY: DN	PAGE 1 OF 1
11/10/08	10-25thNET 10	11/10/08	DIRECT SHIP R&L CARRIERS	184306-04	FOB ORG, FRT PPA
10/24/08	OCN: 109171	COMMENTS: VAS FREIGHT	M20 ONLY		

Scale: 26% | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Results (151)

	Confidence	Page No.	Index	Length	Extractor
0	100%	1	26	1	Value 1
0	100%	1	26	1	Value 2
12	100%	1	32	2	Value 1
12	100%	1	32	2	Value 1
12	100%	1	32	2	Value 2

Batch: Invoices

Spartan (4)
Enid (5)

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Freight
 - Acme
 - Enid
 - Express
 - Standard
 - Spartan
 - Freight
 - Value 1
 - Value 2
- Invoice Amount
- Invoice Date
- Invoice Number
- PO Number
- Remit To
- Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation** Ordered Array
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Deduplicate Locations False
- Deduplicate Values False

Collation

Batch: Invoices

- Spartan (4)
- Enid (5)

Image View Text View

Spartan

INVOICE

SHIP TO (SAME AS "SOLD TO" UNLESS SHOWN)
Grooper Industries
13900 N Harvey
Edmond, OK 73013

INVOICE DATE 02/03/08 ORIGINAL
INVOICE NUMBER MA20 5522109
PO / RELEASE NUMBER 201011309

SOLD TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013

REMIT TO:
Spartan Manufacturing
12 West Laguna Dr
Irvine, Ca, 92612

TAKEN BY: DN
ENT BY: MA203338
TERMS: 10-25thNET 10
SHIP DATE: 11/10/08
SHIP VIA: DIRECT SHIP & L CARRIERS
ACCT NUMBER: 134306-04
FOB ORG, FRT PPA

Scale: 26% | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Results (151)

	Confidence	Page No	Index	Length	Extractor
0	100 %	1	26	1	Value 1
0	100 %	1	26	1	Value 2
12	100 %	1	32	2	Value 2
12	100 %	1	32	2	Value 1
02c12	100 %	1	62	5	Value 2

PAGE 1 OF 1

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Freight
 - Acme
 - Enid
 - Express
 - Standard
 - Spartan
 - Freight
 - Value 1
 - Value 2
- Invoice Amount
- Invoice Date
- Invoice Number
- PO Number
- Remit To
- Ship To
- Lexicons (data model)
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation** Vertical Layout
- Horizontal Layout Disabled
- Vertical Layout Enabled
- Flow Layout Disabled
- Combine Method Individual
- Result Separator
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Deduplicate Locations False
- Deduplicate Values False

Vertical Layout

Batch: Invoices

- Spartan (4)
- Enid (5)

Image View Text View

Spartan

INVOICE

SHIP TO (SAME AS "SOLD TO" UNLESS SHOWN)
Grooper Industries
13900 N Harvey
Edmond, OK 73013

INVOICE DATE 02/03/08 ORIGINAL
INVOICE NUMBER MA20 5522109
PO / RELEASE NUMBER 201011309

SOLD TO
Grooper Industries
13900 N Harvey
Edmond, OK 73013

REMIT TO:
Spartan Manufacturing
12 West Laguna Dr
Irvine, Ca, 92612

TAKEN BY: DN
ENT BY: MA203338
TERMS: 10-25thNET 10
SHIP DATE: 11/10/08
SHIP VIA: DIRECT SHIP & L CARRIERS
ACCT NUMBER: 134306-04
FOB ORG, FRT PPA

Scale: 26% | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Results (151)

	Confidence	Page No	Index	Length	Extractor
0	100 %	1	26	1	Value 1
0	100 %	1	26	1	Value 2
12	100 %	1	32	2	Value 2
12	100 %	1	32	2	Value 1
02c12	100 %	1	62	5	Value 2

PAGE 1 OF 1

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

1 results in 118 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern (empty)
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation Ordered Array
- Horizontal Layout Disabled
- Vertical Layout Enabled
- Maximum Distance 0.25
- Alignment Any
- Alignment Tolerance
- Flow Layout Disabled
- Combine Method Sum

Order By Position

Direction Ascending

Result Filter (empty)

Deduplication

Combine Method

Batch: Invoices

Spartan (4)

Enid (5)

Image View Text View

MOSE TOTAL .00 IN .00 OUT 85.94

FREIGHT OTHER CHARGES RESTOCKING PCT SALES TAX AMOUNT CASH DISCOUNT TOTAL DUE

NO MERCHANDISE MAY BE RETURNED WITHOUT OUR PERMISSION, AND NO TRADES ARE SUBJECT TO RESTOCKING CHARGES.

TERMINATED EMPLOYEES ARE SUBJECT TO RESTOCKING CHARGES OF 10% OF THE PURCHASE, EQUIVALENT TO AN 18% RESTOCKING RATE FOR ANNUAL IN 18%.

THE MERCHANTS LISTED IN THIS INVOICE HAS BEEN PRODUCED, WITH RESPECT TO OUR OWN OPERATION, IN ACCORDANCE WITH THE FAIR LABOR STANDARDS ACT OF 1938, AS AMENDED.

INVOICE

Scale: 26 % | 2552px x 3276px | 8.51" x 10.92" | 300 DPI | Black & White

Results (1) Confidence Page No Index Length Extractor

85.94 100 % 1 0 0 Spartan

> Content Models / Invoices / (data model) / Freight

Change the following property value(s):

Property	Default Value	New Value
General		
Value Type	String	Decimal
Format Specifier	-	c2
Expressions		
Default Value Expression	-	0

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight**
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

General

Value Type	String (empty)
Value Extractor	Minimum Confidence
	Sub-Element Name
Description	20%

Appearance

Behavior

Database Lookup

Expressions

Default Value Expression
Generated Default Value
Calculate Expression
Validate Expression

List Settings

Data Field Preview

Freight

Document View **Text View** **Instance View**

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 8815616

Scale: 20% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight**
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

General

Value Type	Decimal (empty)
Value Extractor	Minimum Confidence
	Sub-Element Name
Description	20%

Appearance

Behavior

Database Lookup

Expressions

Default Value Expression
Generated Default Value
Calculate Expression
Validate Expression

List Settings

Data Field Preview

Freight

Document View **Text View** **Instance View**

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 8815616

Scale: 20% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

The screenshot shows the ACE Architect interface with the following details:

- File Bar:** File, Edit, Tools, Help.
- Toolbar:** Refresh, Add, Delete, Rename, Clone.
- Left Navigation:** ACE Architect 02, Batch Processing, Content Models, Invoices (local resources) (data model), Acme, Enid, Express, Spartan, Standard, Data Extraction, Global Resources, Infrastructure, Reports.
- Data Field Configuration:**
 - General:** Value Type: Decimal, Any, Format Specifier: c2.
 - Expressions:** Default Value Expression: 0.
- Document View:** Shows a preview of an invoice document titled "ACME | INTERNATIONAL". The document includes sections for "Check to:", "Invoice", "Bill To:", "Ship To:", "Your Reference", and "Our Reference".
- Text View:** Shows the XML structure of the invoice document.
- Instance View:** Shows the specific instance of the "Freight" field in the "Invoices" data model.
- Buttons:** Save, Cancel, Test Extraction.

This screenshot is nearly identical to the one above, but the "Default Value Expression" is set to 0.00 instead of 0.

> Content Models / Invoices / (data model) / Freight

1. In the General section, set the Value Extractor > Type property to Reference
2. Set the Referenced Extractor property to the Invoices • (local resources) > Extractors > Freight Data Type.

ACE Architect 02

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

- Value Type **Decimal**
- Input Styles
- Format Specifier
- Input Cultures
- Output Culture
- Minimum Value
- Maximum Value
- Value Range -79228162514264337593543950335 to 792281

Value Extractor **(empty)** **20%**

Appearance

Behavior

Database Lookup

Expressions

- Default Value Expression **0**
- Generated Default Value **\$0.00**
- Calculate Expression

Value Extractor

Batch: **Invoices**

Invoices

- Acme (1)**
- Standard (2)**

Freight **\$0.00**

Data Field Test Results

No Issues **Field is OK**

Document View Text View Instance View

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice

Page 1 / 01

Scale: 20% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

- Value Type **Decimal**
- Input Styles
- Format Specifier
- Input Cultures
- Output Culture
- Minimum Value
- Maximum Value
- Value Range -79228162514264337593543950335 to 792281

Value Extractor

Type **Referenced Extractor**

Minimum Confidence

Sub-Element Name

Description

Appearance

Behavior

Database Lookup

Expressions

Default Value Expression

Referenced Extractor

Batch: **Invoices**

Invoices

- Acme (1)**
- Standard (2)**

Freight **\$0.00**

Data Field Preview

Data Field Test Results

No Issues **Field is OK**

Document View Text View Instance View

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice

Page 1 / 01

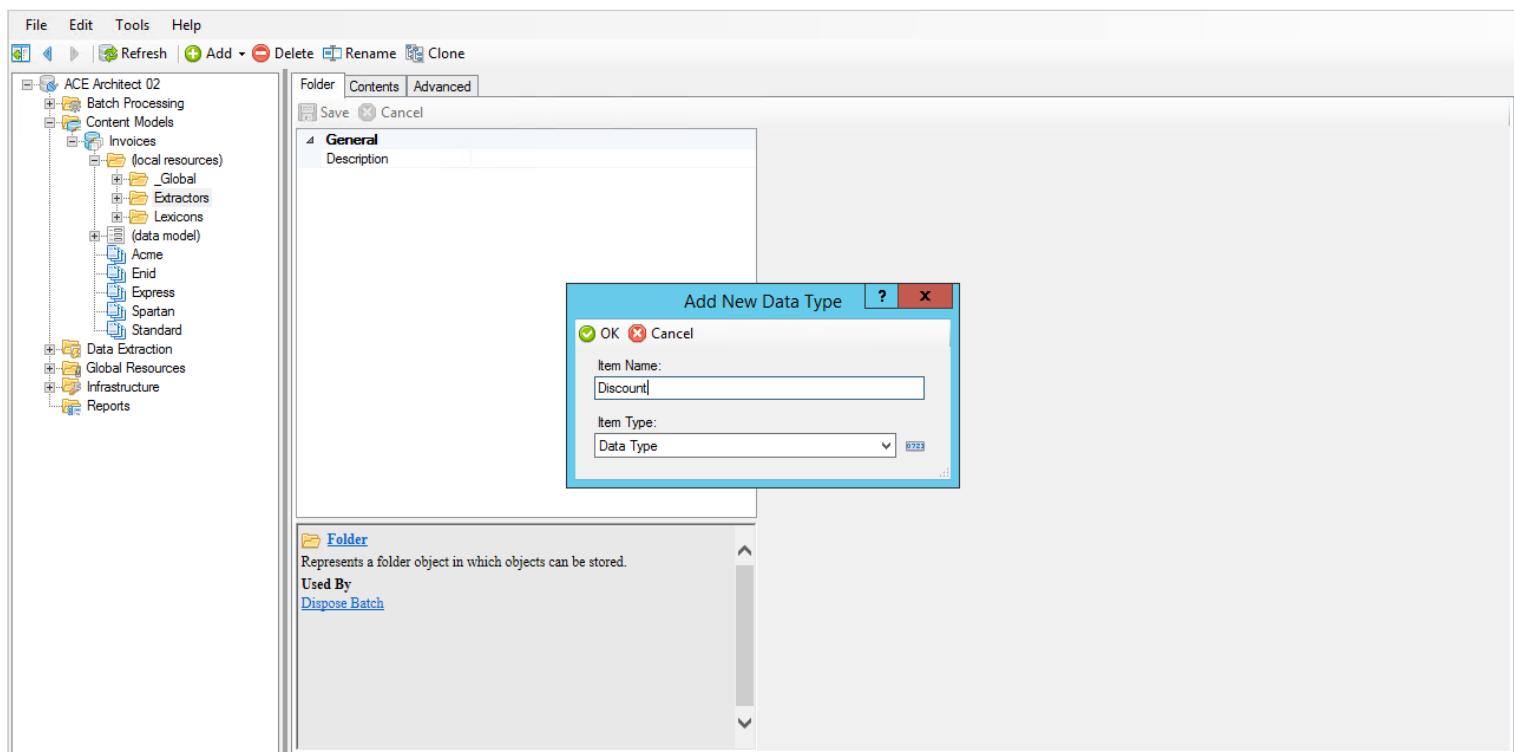
Scale: 20% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Discount

> Content Models / Invoices / (local resources) / Extractors

1. Right click and select Add > Data Type... .

2. Name it Discount



Content Models / Invoices / (local resources) / Extractors / **Discount**

1. Create two Data Types as children of the Discount Data Type:

- Acme
- Enid

2. Select the Acme Data Type and click to edit its Pattern

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Discount
 - Acme
 - Enid
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616

Scale: 26% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Data Type

Batch: Invoices

Invoices

 - Acme (1)
 - Standard (2)

Value Confidence Page No Index Length Extractor

III

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Discount
 - Acme
 - Enid
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

Image View Text View

ACME | INTERNATIONAL

Checks to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Page 1 / 01

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616

Scale: 26% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Data Type

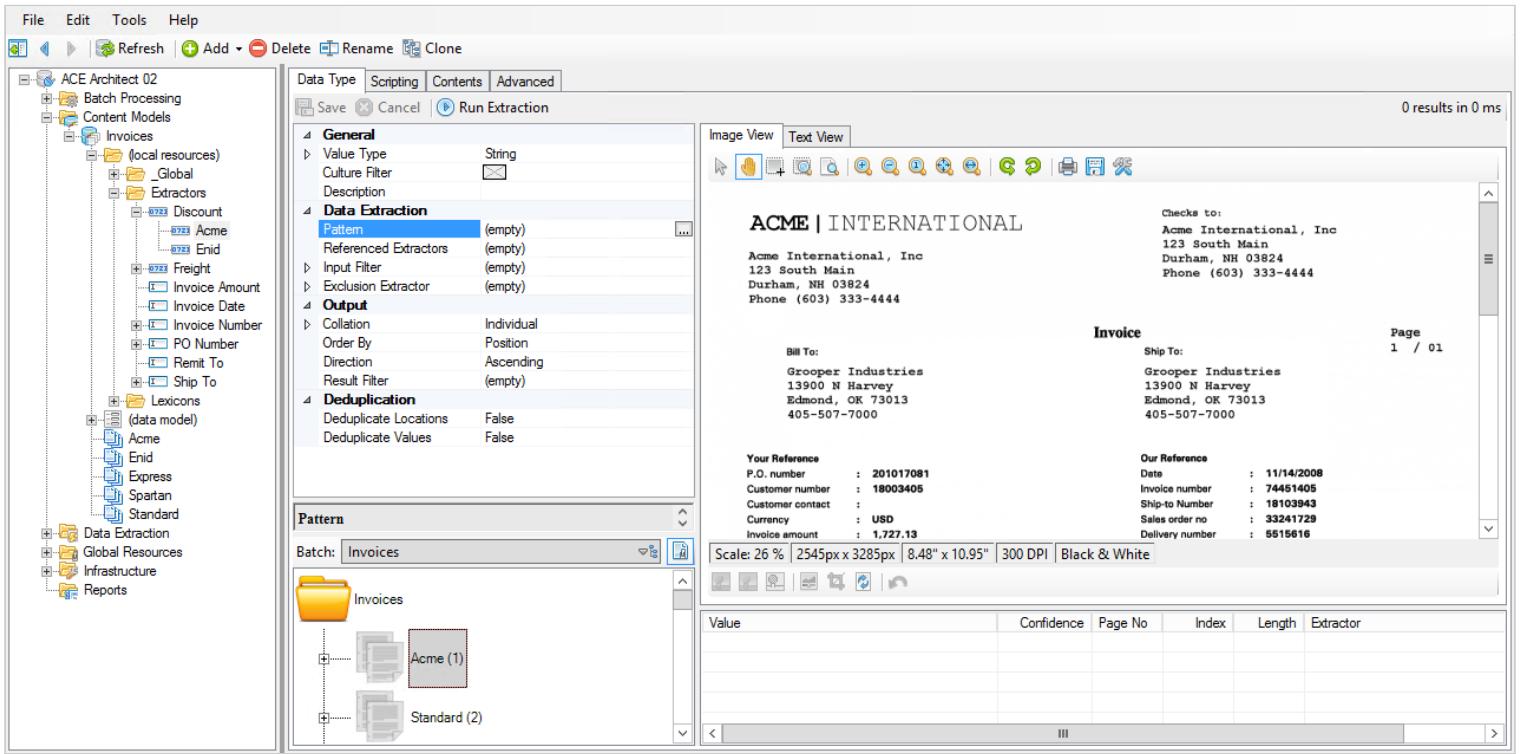
Batch: Invoices

Invoices

 - Acme (1)
 - Standard (2)

Value Confidence Page No Index Length Extractor

III



> Content Models / Invoices / (local resources) / Extractors / Discount / **Acme**

1. Click on the Properties tab and set the Preprocessing Options > Tab Marking property to **True**
2. Click back to the Pattern Editor tab
3. In the Value Pattern editor, type:

```
[@Number., ]{3,12}
```

4. In the Look Ahead Pattern editor, type:

```
cust\.\sdiscount\s%(\t|\r\n)[^\t]+\t
```

5. In the Output Format editor, type:

```
{0:Number}
```

6. Press **OK** to close the pattern editor window

ACME | INTERNATIONAL

Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice Page 1 / 01

Bill To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Ship To:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number : 201017081
Customer number : 18003405
Customer contact :
Currency : USD
Invoice amount : 1,727.13
Payment terms : Net 30 days

Our Reference
Date : 11/14/2008
Invoice number : 74451405
Ship-to Number : 18103943
Sales order no : 33241729
Delivery number : 5515616
Freight carrier :
Tracking number : 1Z2565E90301034108

Scale: 34% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Results (0) Confidence Page No Index Length

Tracking number : 1Z2565E90301034108

Invoice details

Item	Material Description	Quantity	Unit Price	Value
000020	GB.C103003-00001 BRACKET	2 EA	984.53	1,969.06
	Gross Value		12.50- %	246.13
000021	Cust. Discount %		Net Value for item	1,722.93
	WS.FREIGHT0231	1 AU	Freight (Parts)	
	Gross Value		0.00	4.20

Item total 1,727.13

Invoice amount 1,727.13

Scale: 34% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Results (1) Confidence Page No Index Length

1. Select Acme (14).
2. In the Output section, set the Collation property to **Combine**
3. Expand Collation and set the Combine Method property to **Sum**

The screenshot shows the ACE Architect 02 interface with the following details:

- File Bar:** File, Edit, Tools, Help.
- Toolbar:** Refresh, Add, Delete, Rename, Clone.
- Left Sidebar:** Shows a tree view of the project structure under "ACE Architect 02". Nodes include "Batch Processing", "Content Models", "Invoices" (selected), "Extractors" (under Invoices), and various "Enid" and "Lexicons" nodes.
- Central Panel:**
 - Data Type:** Scripting, Contents, Advanced.
 - General:** Value Type: String, Culture Filter: (empty), Description: (empty).
 - Data Extraction:** Pattern: RegEx: [@Number..]{3,12}, Referenced Extractors: (empty), Input Filter: (empty), Exclusion Extractor: (empty).
 - Output:** Collation: Individual, Order By: Position, Direction: Ascending, Result Filter: (empty).
 - Deduplication:** Deduplicate Locations: False, Deduplicate Values: False.
- Image View:** Shows a screenshot of an invoice document with tracking number 122565E90301033538. The invoice details table is visible, showing items like VALVE-AIR with unit price 27.18 and quantity 24 EA.
- Text View:** Shows the results of the extraction, listing two matches: 81.54 and 42.24.
- Pattern:** Shows a batch named "Invoices" containing three nodes: "Spartan (13)", "Acme (14)" (which is highlighted in blue), and "Standard (15)".
- Results:** A table showing the extracted values and their properties.

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

2 results in 1 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern RegEx: {@Number..}{3,12}
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation** Combine
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Deduplicate Locations False
- Deduplicate Values False

Collation

Batch: Invoices

- Spartan (13)
- Acme (14) **Selected**
- Standard (15)

Image View Text View

Tracking number : 122565E90301033538

invoice details

Item	Material Description	Quantity	Unit Price	Value
000010	GB.C136177-00001 VALVE-AIR	24 EA		
	Gross Value		27.18	652.32
	Cust. Discount %		12.50- %	81.54
	Net Value for Item		23.78	570.78
000020	GB.C136177-00002 VALVE-AIR	12 EA		
	Gross Value		28.18	337.92
	Cust. Discount %		12.50- %	42.24
	Net Value for Item		24.64	295.68
000021	WS.FREIGHT0231	1 AU		

Scale: 26 % | 2539px x 3280px | 8.46" x 10.93" | 300 DPI | Black & White

Results (2)

	Confidence	Page No	Index	Length	Extractor
81.54	100 %	1	852	5	Acme
42.24	100 %	1	987	5	Acme

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

2 results in 1 ms

General

- Value Type String
- Culture Filter
- Description

Data Extraction

- Pattern RegEx: {@Number..}{3,12}
- Referenced Extractors (empty)
- Input Filter (empty)
- Exclusion Extractor (empty)

Output

- Collation** Combine
- Group By None
- Enforce Page Boundary False
- Combine Method** Sum
- Order By Position
- Direction Ascending
- Result Filter (empty)

Deduplication

- Deduplicate Locations False
- Deduplicate Values False

Combine Method

Batch: Invoices

- Spartan (13)
- Acme (14) **Selected**
- Standard (15)

Image View Text View

Tracking number : 122565E90301033538

invoice details

Item	Material Description	Quantity	Unit Price	Value
000010	GB.C136177-00001 VALVE-AIR	24 EA		
	Gross Value		27.18	652.32
	Cust. Discount %		12.50- %	81.54
	Net Value for Item		23.78	570.78
000020	GB.C136177-00002 VALVE-AIR	12 EA		
	Gross Value		28.18	337.92
	Cust. Discount %		12.50- %	42.24
	Net Value for Item		24.64	295.68
000021	WS.FREIGHT0231	1 AU		

Scale: 26 % | 2539px x 3280px | 8.46" x 10.93" | 300 DPI | Black & White

Results (2)

	Confidence	Page No	Index	Length	Extractor
81.54	100 %	1	852	5	Acme
42.24	100 %	1	987	5	Acme

> Content Models / Invoices / (local resources) / Extractors / Discount / **Enid**

Create two Data Formats as children of the Enid Data Type:

- [Key] Enid - Discount
- [Value] Enid - Discount

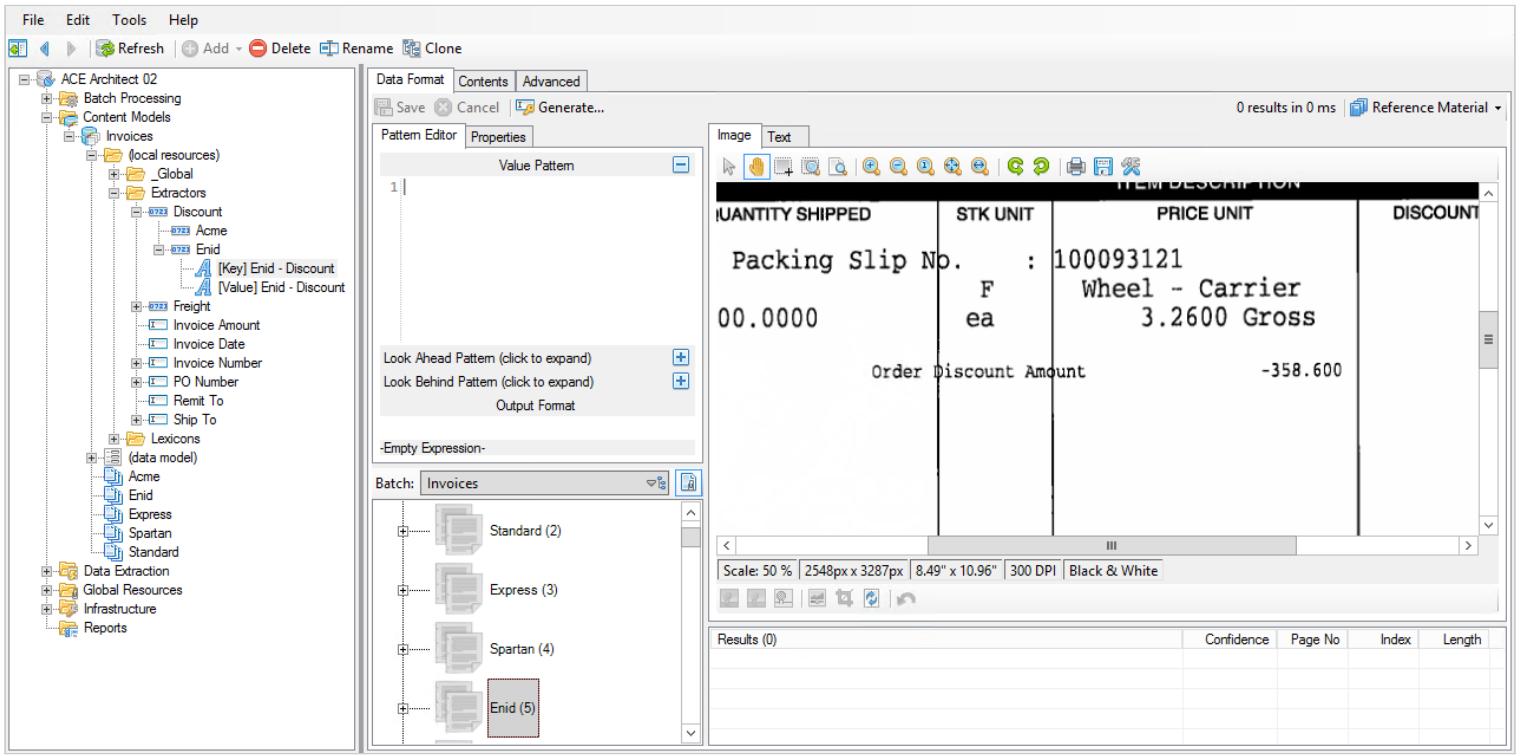
The screenshot shows the ACE Architect 02 interface. On the left, the project tree displays 'ACE Architect 02' with various modules like Batch Processing, Content Models, and Reports. Under Content Models, there's an 'Invoices' folder containing 'local resources' (Global, Extractors), 'Discount' (with 'Acme' and 'Enid' sub-folders), and other fields like Freight, Invoice Amount, Invoice Date, Invoice Number, PO Number, Remit To, and Ship To. There are also Lexicons and standard components.

The main workspace shows the 'Data Type' configuration for the 'Enid' extractor under the 'Discount' folder. The 'General' tab shows a value type of 'String'. The 'Data Extraction' tab includes a pattern '(empty)', no referenced extractors, an input filter '(empty)', and an exclusion extractor '(empty)'. The 'Output' tab specifies an individual collation and ascending direction. The 'Deduplication' tab has 'Deduplicate Locations' and 'Deduplicate Values' set to 'False'. Below this is a preview of an invoice document from 'Enid Parts' to 'Grooper Industries' with details like order number 100049766, order date 11-11-08, and shipped via FXG on 12-03-08.

> Content Models / Invoices / (local resources) / Extractors / Discount / Enid / [Key] Enid -
Discount

1. Select Enid (5).
2. In the Value Pattern editor, type:

```
order discount amount
```



> Content Models / Invoices / (local resources) / Extractors / Discount / Enid / [Key] Enid - Discount

1. Click on the Properties tab
2. In the General section, set the Mode property to FuzzyRegEx
3. In the Fuzzy Matching Options section, set the Minimum Similarity property to 85%
4. Expand Fuzzy Match Weightings and click to edit Local Entries
5. In the List Editor window, type:

)D=0.1

6. Press OK to close the List Editor window

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Discount
 - Acme
 - Enid
 - [Key] Enid - Discount
 - [Value] Enid - Discount
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Format [Contents Advanced]

Save Cancel Generate...

Pattern Editor Properties

General

 - Value Type String
 - Mode **FuzzyRegEx**
 - Case Sensitive False
 - Preprocessing Option None
 - Regional Settings (empty)
 - Expression Lexicon
 - Referenced Lexicons (empty)

Fuzzy Matching Options

 - Minimum Similarity 90%
 - Match Mode LeastCost
 - Fuzzy Match Weight (empty)
 - Regular Expression
 - Lookup and Translation

Mode

Batch: Invoices

 - Standard (2)
 - Express (3)
 - Spartan (4)
 - Enid (5)**

Image Text Fuzzy Extraction Visualizer

11-08 CUSUU141U 099325 010015704

ITEM DESCRIPTION		
QUANTITY SHIPPED	STK UNIT	PRICE UNIT
Packing Slip No. : 100093121		Wheel - Carrier
500.0000	F ea	3.2600 Gross
	Order Discount Amount	-358.600

Scale: 50 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (1)

Order Discount Amount	Confidence	Page No	Index	Length
90 %	1	676	22	

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Discount
 - Acme
 - Enid
 - [Key] Enid - Discount
 - [Value] Enid - Discount
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Format [Contents Advanced]

Save Cancel Generate...

Pattern Editor Properties

General

 - Value Type String
 - Mode **FuzzyRegEx**
 - Case Sensitive False
 - Preprocessing Option None
 - Regional Settings (empty)
 - Expression Lexicon
 - Referenced Lexicons (empty)

Fuzzy Matching Options

 - Minimum Similarity **85%**
 - Match Mode LeastCost
 - Fuzzy Match Weight (empty)
 - Regular Expression
 - Lookup and Translation

Minimum Similarity

Batch: Invoices

 - Standard (2)
 - Express (3)
 - Spartan (4)
 - Enid (5)**

Image Text Fuzzy Extraction Visualizer

11-08 CUSUU141U 099325 010015704

ITEM DESCRIPTION		
QUANTITY SHIPPED	STK UNIT	PRICE UNIT
Packing Slip No. : 100093121		Wheel - Carrier
500.0000	F ea	3.2600 Gross
	Order Discount Amount	-358.600

Scale: 50 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (1)

Order Discount Amount	Confidence	Page No	Index	Length
90 %	1	676	22	

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

Batch Processing Content Models Invoices (local resources) Global Extractors Discount Acme Enid Freight Invoice Amount Invoice Date Invoice Number PO Number Remit To Ship To Lexicons (data model) Acme Enid Express Spartan Standard Data Extraction Global Resources Infrastructure Reports

Data Format Contents Advanced Save Cancel Generate...

Pattern Editor Properties

General Value Type: String Mode: FuzzyRegEx Case Sensitive: False Preprocessing Option: None Regional Settings: (empty) Expression Lexicon: Referenced Lexicons: (empty)

Fuzzy Matching Options Minimum Similarity: 85% Match Mode: LeastCost Fuzzy Match Weight: 0 entries Local Entries: 0 entries Included Lexicon: (0 Lexicon objects)

Local Entries Batch: Invoices

- Standard (2)
- Express (3)
- Spartan (4)
- Enid (5)

Image Text Fuzzy Extraction Visualizer

11-08 CUSUU141U 099325 V10015704

ITEM DESCRIPTION		
QUANTITY SHIPPED	STK UNIT	PRICE UNIT
Packing Slip No. : 100093121		Wheel - Carrier
500.0000	F ea	3.2600 Gross
		-358.600
	Order Discount Amount	

Scale: 50% 2548px x 3287px 8.49" x 10.96" 300 DPI Black & White

Results (1) Order Discount Amount Confidence Page No Index Length 90 % 1 676 22

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

Batch Processing Content Models Invoices (local resources) Global Extractors Discount Acme Enid Freight Invoice Amount Invoice Date Invoice Number PO Number Remit To Ship To Lexicons (data model) Acme Enid Express Spartan Standard Data Extraction Global Resources Infrastructure Reports

Data Format Contents Advanced Save Cancel Generate...

Pattern Editor

List Editor OK Cancel

(D=0..1]

General Value Type: String Mode: FuzzyRegEx Case Sensitive: False Preprocessing Option: None Regional Settings: (empty) Expression Lexicon: Referenced Lexicons: (empty)

Fuzzy Matching Options Minimum Similarity: 85% Match Mode: LeastCost Fuzzy Match Weight: 0 entries Local Entries: 0 entries Included Lexicon: (0 Lexicon objects)

Local Entries Batch: Invoices

- Standard (2)
- Express (3)
- Spartan (4)
- Enid (5)

Image Text Fuzzy Extraction Visualizer

25 V10015704

ITEM DESCRIPTION		
STK UNIT	PRICE UNIT	
No. : 100093121	Wheel - Carrier	
F ea	3.2600 Gross	
Discount Amount	-358.600	

Black & White

Results (1) Order Discount Amount Confidence Page No Index Length 90 % 1 676 22

> Content Models / Invoices / (local resources) / Extractors / Discount / Enid / **[Value] Enid - Discount**

- In the Value Pattern editor, type:

```
\d{1,6}\.\d{2,3}
```

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Discount
 - Acme
 - Enid
 - [Key] Enid - Discount**
 - [Value] Enid - Discount**
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Format Contents Advanced

Save Cancel Generate...

Pattern Editor Properties

Value Pattern

1

Look Ahead Pattern (click to expand) +

Look Behind Pattern (click to expand) +

Output Format

Empty Expression:

Batch: Invoices

Standard (2)

Express (3)

Spartan (4)

Enid (5)

Image Text

Enid Parts

INVOICE

INVOICE DATE	INVOICE #	PAGE
12-05-08	CSI/10076138	1

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73013

SOLD Groper Industries
13900 N Harvey
TO: Edmond, OK 73013

SHIP Groper Industries
13900 N Harvey
TO: Edmond, OK 73013

ORDER NUMBER	ORDER DATE	CUSTOMER NUMBER	SALES PERSON	PURCHASE ORDER NUMBER	SHIP VIA	SHIP DATE	TERMS
100049766	11-11-08	CU6001410	099325	010013704	FAX	12-03-08	Net 30

Scale: 25 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (0)

Confidence Page No Index Length

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - Discount
 - Acme
 - Enid
 - [Key] Enid - Discount**
 - [Value] Enid - Discount**
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Format Contents Advanced

Save Cancel Generate...

Pattern Editor Properties

Value Pattern

1 \d{1,6}\.\d{2,3}

Look Ahead Pattern (click to expand)

Look Behind Pattern (click to expand)

Output Format

OK:\d{1,6}\.\d{2,3}

Batch: Invoices

Standard (2)

Express (3)

Spartan (4)

Enid (5)

Image Text

g Slip No. : 100093121

F ea Wheel - Carrier

3.2600 Gross

Order Discount Amount -358.600

III

Scale: 62 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (10)

7706.105	100 %	1	602	8
500.000	100 %	1	632	7
500.000	100 %	1	641	7
3.260	100 %	1	653	5

Confidence Page No Index Length

> Content Models / Invoices / (local resources) / Extractors / Discount / **Enid**

1. In the Output section, set the Collation property to **Key-Value Pair**
2. Expand Collation and set the Horizontal Layout property to **Enabled**

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - [Key] End - Discount
 - Acme
 - Enid
 - [Key] End - Discount
 - [Value] End - Discount
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

Image View Text View

11 results in 1 ms

General

 - Value Type String
 - Culture Filter
 - Description

Data Extraction

 - Pattern (empty)
 - Referenced Extractors (empty)
 - Input Filter (empty)
 - Exclusion Extractor (empty)

Output

 - Collation Individual
 - Order By Position
 - Direction Ascending
 - Result Filter (empty)

Deduplication

 - Deduplicate Locations False
 - Deduplicate Values False

Results (11)

ITEM NUMBER	QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE
7706.1052	500.0000	500.0000	F	Packing Slip No. : 100093121 Wheel - Carrier ea 3.2600 Gross	-358.000	1630.000

Scale: 24 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Collation

Batch: Invoices

Results (11) Confidence Page No Index Length Extractor

ITEM NUMBER	QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE
7706.105	100 % 1	602	8 [Value] End - Discou			
500.000	100 % 1	632	7 [Value] End - Discou			
500.000	100 % 1	641	7 [Value] End - Discou			
3.260	100 % 1	653	5 [Value] End - Discou			
1630.000	100 % 1	ccc	o N/a=1 End - Discou			

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - Global
 - Extractors
 - [Key] End - Discount
 - Acme
 - Enid
 - [Key] End - Discount
 - [Value] End - Discount
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Ship To
 - Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Data Type Scripting Contents Advanced

Save Cancel Run Extraction

Image View Text View

11 results in 1 ms

General

 - Value Type String
 - Culture Filter
 - Description

Data Extraction

 - Pattern (empty)
 - Referenced Extractors (empty)
 - Input Filter (empty)
 - Exclusion Extractor (empty)

Output

 - Collation Key-Value Pair
 - Order By Position
 - Direction Ascending
 - Result Filter (empty)

Deduplication

 - Deduplicate Locations False
 - Deduplicate Values False

Collation

Batch: Invoices

Results (11) Confidence Page No Index Length Extractor

ITEM NUMBER	QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE
7706.1052	500.0000	500.0000	F	Packing Slip No. : 100093121 Wheel - Carrier ea 3.2600 Gross	-358.000	1630.000

Scale: 24 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (11)

ITEM NUMBER	QUANTITY ORDERED	QUANTITY SHIPPED	STK UNIT	PRICE UNIT	DISCOUNT	EXTENDED PRICE
7706.105	100 % 1	602	8 [Value] End - Discou			
500.000	100 % 1	632	7 [Value] End - Discou			
500.000	100 % 1	641	7 [Value] End - Discou			
3.260	100 % 1	653	5 [Value] End - Discou			
1630.000	100 % 1	ccc	o N/a=1 End - Discou			

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

Data Type

Value Type: String
Culture Filter:
Description:

Data Extraction

- Pattern: (empty)
- Referenced Extractors: (empty)
- Input Filter: (empty)
- Exclusion Extractor: (empty)

Output

- Collation: Key-Value Pair
- Horizontal Direction: Forward
- Horizontal Layout: Enabled
- Vertical Layout: Disabled
- Row Layout: Disabled
- Order By: Position
- Direction: Ascending
- Result Filter: (empty)

Deduplication

- Deduplicate Locations: False
- Deduplicate Values: False

Horizontal Layout

Batch: Invoices

Results (11)

	Confidence	Page No.	Index	Length	Extractor
7706.1052	100 %	1	602	8	[Value] Enid - Discount
500.000	100 %	1	632	7	[Value] Enid - Discount
500.000	100 %	1	641	7	[Value] Enid - Discount
3.260	100 %	1	653	5	[Value] Enid - Discount
1<20.000	100 %	1	ccc	0	[Value] Enid - Discount

> Content Models / Invoices / (data model) / **Discount**

1. In the Data Model, select the Discount Data Field
2. In the General section, set the Value Type to **Decimal**
3. Expand Value Type and set the Format Specifier property to **c2**
4. In the Expressions section, set the Default Value Expression property to **0**

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount**
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field | **Contents** | **Advanced** | **Save** | **Cancel** | **Test Extraction**

General

- Value Type: String
- Value Extractor: (empty)
- Minimum Confidence: 20%
- Sub-Element Name:
- Description:

Appearance

Behavior

Database Lookup

Expressions

- Default Value Expression
- Generated Default Value
- Calculate Expression
- Validate Expression

List Settings

Data Field Preview

Discount

Document View | **Text View** | **Instance View**

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship to: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number: 201017081
Customer number: 18003405
Current contact:
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/14/2008
Invoice number: 74462909
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier:
Tracking number: 122568E90301034108

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount**
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field | **Contents** | **Advanced** | **Save** | **Cancel** | **Test Extraction**

General

- Value Type: Decimal
- Input Styles: Any
- FormatSpecifier: c2
- Input Cultures:
- Output Culture:
- Minimum Value:
- Maximum Value:
- Value Range: -79228162514264337593543950335 to 792

Value Extractor

- Minimum Confidence: 20%
- Sub-Element Name:
- Description:

Appearance

Behavior

Database Lookup

Expressions

- Default Value Expression
- Generated Default Value
- Calculate Expression

Validate Expression

Data Field Preview

Discount

Document View | **Text View** | **Instance View**

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

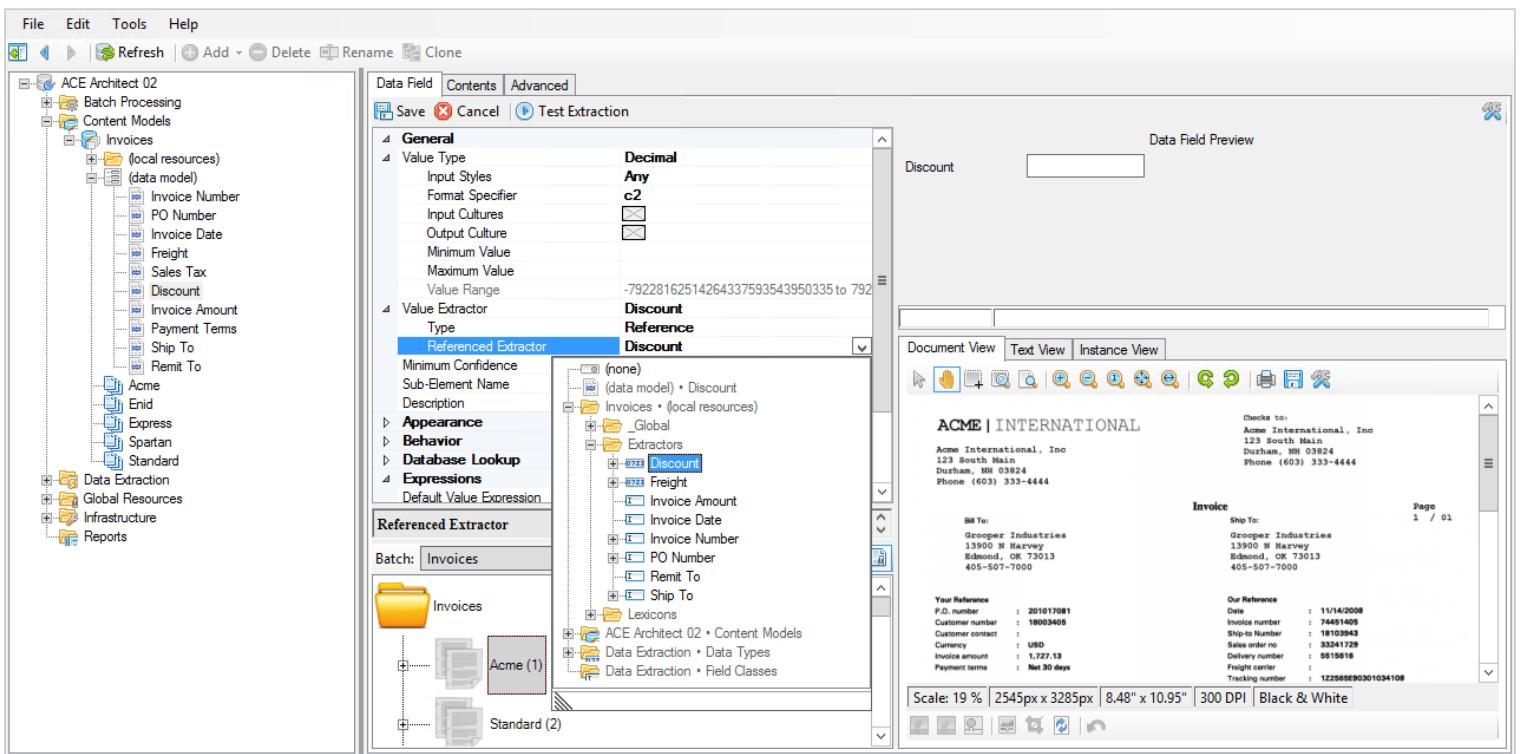
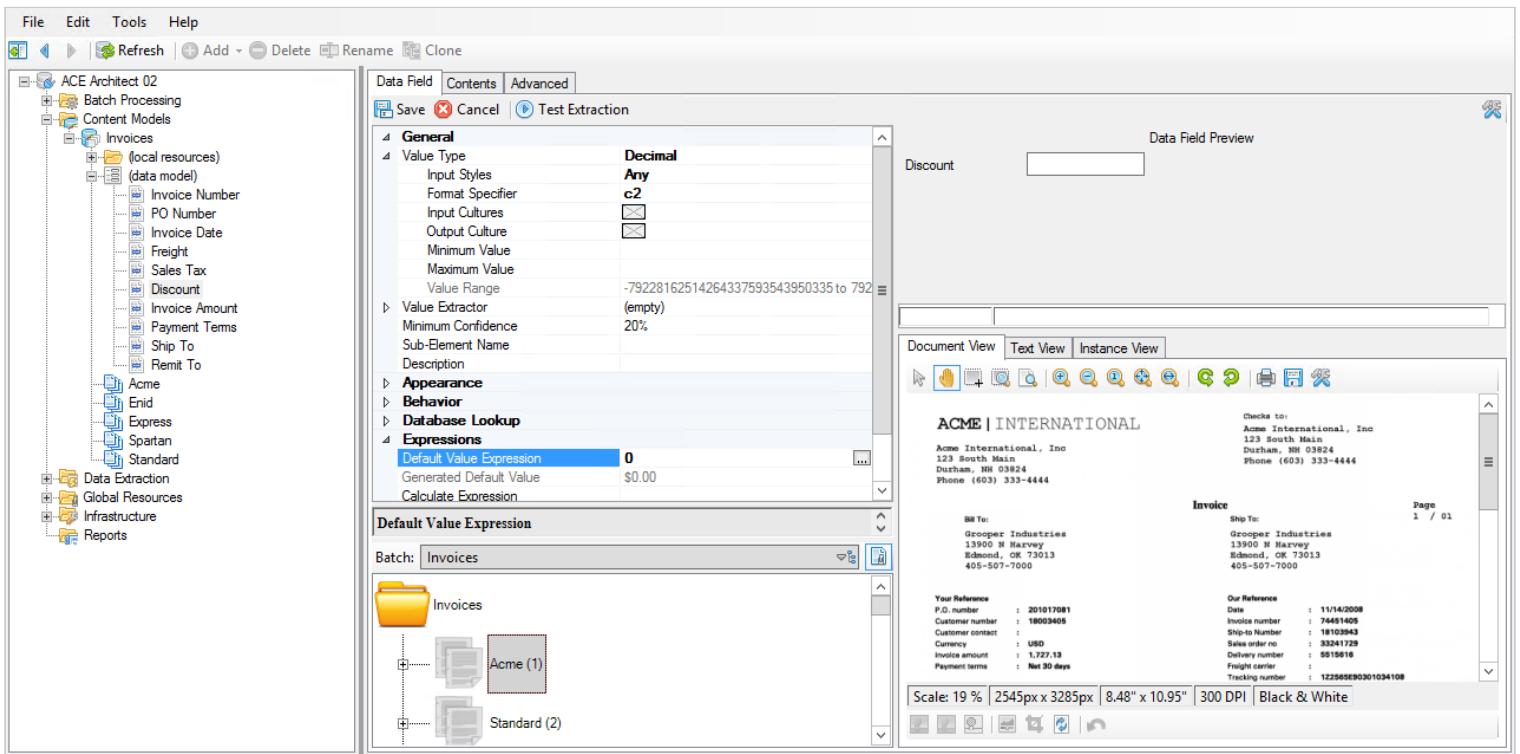
Invoice

Ship to: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference
P.O. number: 201017081
Customer number: 18003405
Current contact:
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/14/2008
Invoice number: 74462909
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier:
Tracking number: 122568E90301034108

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White



> Content Models / Invoices / (data model) / **Discount**

1. In the General section, set the Value Extractor > Type property to Reference
2. Set the Referenced Extractor property to the Invoices • (local resources) > Extractors > **Discount** Data Type.

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field Test Results

Discount: \$0.00

No Issues | Field is OK

Document View | Text View | Instance View

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Ship to: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice

P.O. number: 201017081
Customer number: 18003405
Current contact:
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Your Reference
P.O. number: 201017081
Customer number: 18003405
Current contact:
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Our Reference
Date: 11/14/2008
Invoice number: 74461209
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier:
Tracking number: 122568E90301034108

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field Preview

Discount:

No Issues | Field is OK

Document View | Text View | Instance View

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Ship to: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Invoice

Your Reference
P.O. number: 201017081
Customer number: 18003405
Current contact:
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

Your Reference
P.O. number: 201017081
Customer number: 18003405
Current contact:
Currency: USD
Invoice amount: 1,727.13
Payment terms: Net 30 days

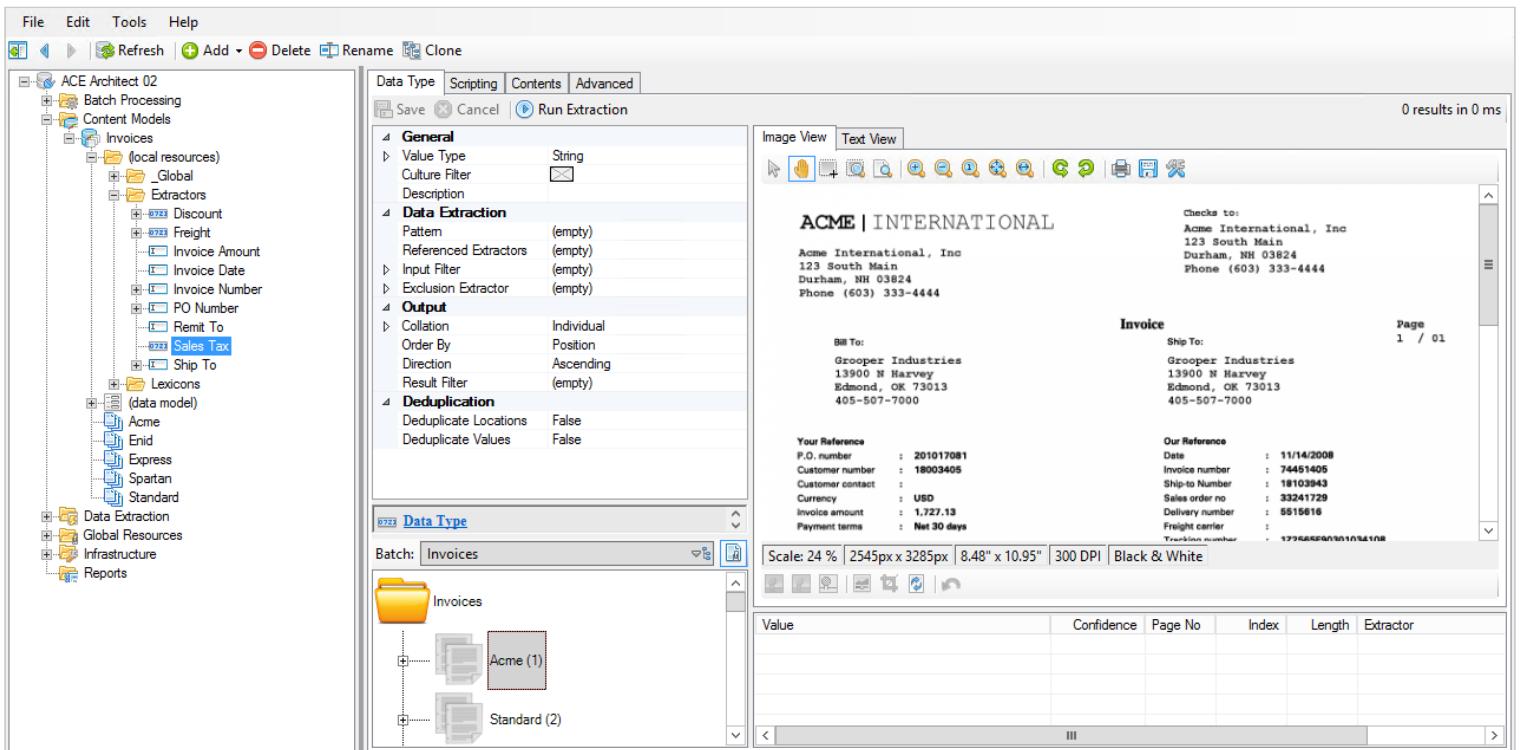
Our Reference
Date: 11/14/2008
Invoice number: 74461209
Ship-to Number: 18103943
Sales order no: 33241728
Delivery number: 5515616
Freight carrier:
Tracking number: 122568E90301034108

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Sales Tax

Content Models / Invoices / (local resources) / Extractors

1. Right click and select Add > Data Type... .
 2. Name it Sales Tax
 3. Create two Data Formats as children of the Sales Tax Data Type
 - Express
 - Standard



> Content Models / Invoices / (local resources) / Extractors / Sales Tax / ***

Edit the patterns for each of the Data Formats: - Express

```
```tab="Value Pattern"
([@Number.] {4,12})
```

```tab="Look Ahead Pattern"
sales tax:((\r\n)|\s)
```

```tab="Output Format"
{0:Number}
```

```

- Standard

Value Pattern

([@Number.] {3,12})

Look Ahead Pattern

Output Format

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Discount
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Sales Tax
 - Express
 - Standard
 - Ship To
- Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Format [Contents Advanced] **Save** **Cancel** **Generate...**

Pattern Editor **Properties**

Value Pattern

1 (@Number.){4,12}

Look Ahead Pattern

1 sales-tax:(\r\n|\s)

Look Behind Pattern (click to expand)

{0:Number}

OK: (?<sales tax:((\r\n|\s))([0-9]{0,1}OoGgSsBbUuD){4,12})

Batch: Invoices

- Enid (36)
- Acme (37)
- Standard (38)
- Express (39)**

Image **Text**

1 results in 7 ms | Reference Material

| /Customer ID # | You Ordered | We Shipped | Balance Due | Unit Price | Extended Amount |
|---|-------------|------------|-------------|------------|-----------------|
| ISE-MNT HINGE W/ 'IN, DULL CHROME FINISH, | 3 | 3 | 0 | 31.78 EA | 95.34 EA |

Merchandise Amount: 95.34
 Sales Tax: 7.39
 Shipping Charge: 5.92
Invoice Total: \$108.65

sed as follows:

Scale: 40 % | 2501px x 3282px | 8.34" x 10.94" | 300 DPI | Black & White

Results (1) Confidence Page No Index Length

7.39 100 % 1 856 4

ACE Architect 02

Invoices

- (local resources)
 - Global
 - Extractors
 - Discount
 - Freight
 - Invoice Amount
 - Invoice Date
 - Invoice Number
 - PO Number
 - Remit To
 - Sales Tax
 - Express
 - Standard
 - Ship To
- Lexicons (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Format [Contents Advanced] **Save** **Cancel** **Generate...**

Pattern Editor **Properties**

Value Pattern

1 (@Number.){3,12}

Look Ahead Pattern

1 tax\s

Look Behind Pattern (click to expand)

{1:Number}

OK: (?<tax\s)([0-9]{0,1}OoGgSsBbUuD){3,12})

Batch: Invoices

- Acme (1)
- Standard (2)
- Express (3)

Image **Text**

1 results in 5 ms | Reference Material

| INVOICE SUB TOTAL | SHIPPING CHARGE | TAX |
|-------------------|-----------------|------|
| 40.56 | 7.71 | 2.90 |

! States: If exported, purchaser assumes full
 NO STATEMENT SENT. PAYABLE IN U.S. DOLLARS.

AMOUNT DUE 51.17

Scale: 40 % | 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

Results (1) Confidence Page No Index Length

2.90 100 % 1 727 4

1. In the Data Model, select the Sales Tax Data Field
2. In the General section, set the Value Type to **Decimal**
3. Expand Value Type and set the Format Specifier property to **c2**
4. In the Expressions section, set the Default Value Expression property to **0**

The screenshot shows the Content Model interface with the following details:

- File Edit Tools Help**: Standard application menu.
- Toolbar**: Refresh, Add, Delete, Rename, Clone.
- Left Sidebar (Tree View)**:
 - ACE Architect 02
 - Batch Processing
 - Content Models
 - Invoices (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax** (selected)
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports
- Central Work Area**:
 - Data Field** tab: Set to **Invoices**.
 - General** section: Value Type is **String**, Value Extractor is **(empty)**, Minimum Confidence is **20%**.
 - Appearance**, **Behavior**, **Database Lookup**, **Expressions** sections are visible.
 - List Settings** section is collapsed.
 - Data Field Preview**: Shows a text input field labeled **Sales Tax**.
 - Document View** tab: Displays a sample invoice document.
 - Text View** tab: Displays the XML structure of the invoice.
 - Instance View** tab: Displays the detailed data fields of the invoice.
- Right Panel**: Shows a detailed view of an **ORIGINAL INVOICE** for **STANDARD** products. The invoice is for **19658 South Friar Oklahoma City, OK 73102**. The **BILL TO** address is **Grooper Industries 13900 N Harvey Edmond, OK 73013 405-507-7000**. The **PO NUMBER** is **209001141**. The **THANK YOU!** message is present. A barcode is shown on the right.

Sales Tax

Data Field Preview

Document View Text View Instance View

STANDARD

Products: Grooper Industries

19658 South Frikk
Oklahoma City, OK 73102

SHIP TO:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

BILL TO:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

THANK YOU!

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-877-202-204

| PO LINE # | ITEM # | DESCRIPTION | QUANTITY | BACK ORDERED | UNIT PRICE | TOTAL |
|-----------|--------|--------------|----------|--------------|------------|-------|
| | ZV620 | FLASHLIGHT.D | 8 | | 5.07 | 40.56 |

Scale: 19 % 2545px x 3274px 8.48" x 10.91" 300 DPI Black & White

Sales Tax

Data Field Preview

Document View Text View Instance View

STANDARD

Products: Grooper Industries

19658 South Frikk
Oklahoma City, OK 73102

SHIP TO:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

BILL TO:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

THANK YOU!

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-877-202-204

| PO LINE # | ITEM # | DESCRIPTION | QUANTITY | BACK ORDERED | UNIT PRICE | TOTAL |
|-----------|--------|--------------|----------|--------------|------------|-------|
| | ZV620 | FLASHLIGHT.D | 8 | | 5.07 | 40.56 |

Scale: 19 % 2545px x 3274px 8.48" x 10.91" 300 DPI Black & White

> Content Models / Invoices / (data model) / **Sales Tax**

1. In the General section, set the Value Extractor > Type property to Reference
2. Set the Referenced Extractor property to the Invoices • (local resources) > Extractors > **Sales Tax** Data Type.

Sales Tax

Data Field Preview

Document View **Text View** **Instance View**

STANDARD

ACCOUNT NUMBER: 872864830
INVOICE NUMBER: 9711120473
INVOICE DATE: 11/11/2008
DUE DATE: 12/11/2008
AMOUNT DUE: \$1.17

PO NUMBER: 209001161

SHIP TO:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

BILL TO:
Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

THANK YOU!

FOR ANY QUESTIONS ABOUT THIS INVOICE OR ACCOUNT CALL 1-877-202-204

| PO LINE # | ITEM # | DESCRIPTION | QUANTITY | BACK ORDERED | UNIT PRICE | TOTAL |
|-----------|--------|---------------|----------|--------------|------------|-------|
| | ZV620 | FLASHLIGHT, D | 8 | | 5.07 | 40.56 |

Scale: 19 % 2545px x 3274px | 8.48" x 10.91" | 300 DPI | Black & White

> Content Models / Invoices / **(local resources)**

1. Right click and select **Add > New Folder...**
2. Name it **Overrides**

Overrides

Folder **Contents** **Advanced**

Description

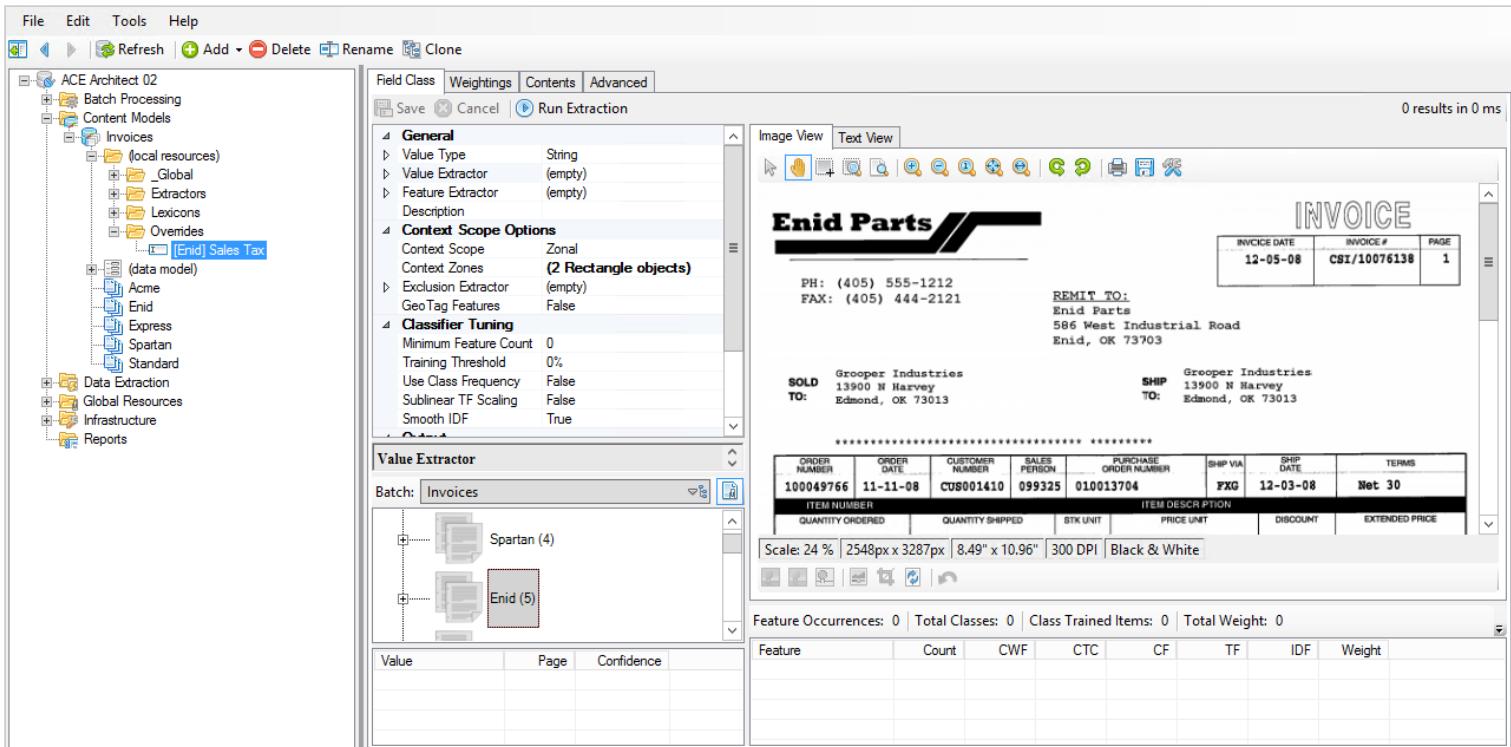
Folder
Represents a folder object in which objects can be stored.

Used By
[Dispose Batch](#)

> Content Models / Invoices / (local resources) / **Overrides**

1. In the Overrides folder, add a Field Class

2. Name it **[Enid] Sales Tax**



> Content Models / Invoices / (local resources) / Overrides / **[Enid] Sales Tax**

1. Set the Value Extractor > Type property to **Internal**

2. Click to edit the pattern:

Value Pattern

([@Number .]{2,12})

Output Format

3. Set the Feature Extractor > Type property to **Reference**

4. Set the Referenced Extractor property to the Data Extraction • Data Types > Training Materials > Features > **Phrases** Data Type

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Lexicons
 - Oversides
 - [Enid] Sales Tax
- (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 0 results in 0 ms

General

- Value Type String
- Value Extractor Type Internal
- Pattern (Click to edit)
- Feature Extractor (empty)
- Description

Context Scope Options

- Context Scope Zonal
- Context Zones (2 Rectangle objects)
- Exclusion Extractor (empty)
- GeoTag Features False

Classifier Tuning

- Minimum Feature Count 0
- Training Threshold 0%
- Use Class Frequency False

Pattern

Batch: Invoices

Pattern Tree:

- + Spartan (4)
- + Enid (5) (highlighted)

Value Page Confidence

Image View Text View

Enid Parts

INVOICE

INVOICE DATE: 12-05-08 INVOICE #: CSI/10076138 PAGE: 1

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
TO: 13900 N Harvey
TO: Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
TO: Edmond, OK 73013

| ORDER NUMBER | ORDER DATE | CUSTOMER NUMBER | SALES PERSON | PURCHASE ORDER NUMBER | SHIP VIA | SHIP DATE | TERMS |
|--------------|------------|-----------------|--------------|-----------------------|----------|-----------|--------|
| 100049766 | 11-11-08 | CUS001410 | 099325 | 010013704 | FXG | 12-03-08 | Net 30 |

ITEM NUMBER ITEM DESCRIPTION

QUANTITY ORDERED QUANTITY SHIPPED STK UNIT PRICE UNIT DISCOUNT EXTENDED PRICE

Scale: 24 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

| Feature | Count | CWF | CTC | CF | TF | IDF | Weight |
|---------|-------|-----|-----|----|----|-----|--------|
| | | | | | | | |

OK Cancel 64 results in 4 ms | Reference Material

Pattern Editor Properties

Value Pattern

1 (@Number.{2,12})

Look Ahead Pattern (click to expand)
Look Behind Pattern (click to expand)
Output Format

{1:Number}
OK: ([0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9][0-9])

Batch: Invoices

Pattern Tree:

- + Acme (1)
- + Standard (2)
- + Express (3)
- + Spartan (4)
- + Enid (5) (highlighted)

Image Text

Enid Parts

INVOICE

INVOICE DATE: 12-05-08 INVOICE #: CSI/10076138 PAGE: 1

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD Grooper Industries
TO: 13900 N Harvey
TO: Edmond, OK 73013

SHIP Grooper Industries
TO: 13900 N Harvey
TO: Edmond, OK 73013

| ORDER NUMBER | ORDER DATE | CUSTOMER NUMBER | SALES PERSON | PURCHASE ORDER NUMBER | SHIP VIA | SHIP DATE | TERMS |
|--------------|------------|-----------------|--------------|-----------------------|----------|-----------|--------|
| 100049766 | 11-11-08 | CUS001410 | 099325 | 010013704 | FXG | 12-03-08 | Net 30 |

ITEM NUMBER ITEM DESCRIPTION

QUANTITY ORDERED QUANTITY SHIPPED STK UNIT PRICE UNIT DISCOUNT EXTENDED PRICE

Scale: 34 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Results (64)

| | Confidence | Page No | Index | Length |
|----|------------|---------|-------|--------|
| 01 | 100 % | 1 | 14 | 2 |
| 01 | 100 % | 1 | 27 | 2 |
| 12 | 100 % | 1 | 40 | 2 |
| 05 | 100 % | 1 | 43 | 2 |

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

Field Class Weights Contents Advanced

Save Cancel Run Extraction

0 results in 0 ms

General

- Value Type: String
- Value Extractor: Type Pattern (@Number.(2,12)) Internal (Click to edit)
- Feature Extractor: Type Phrases Reference
- Referenced Extractors: Phrases

Description: (none)

Context

- Ovemdes • [Enid] Sales Tax
- Context Zones: Data Extraction • Data Types
- Exclusion: Data Extraction • Data Types
- GeoTag Filter
- Classifier: Minimum P

Referenced Entities

Batch: Invoices

Value Page Confidence

Image View Text View

Enid Parts

INVOICE

INVOICE DATE: 12-05-08 INVOICE #: CSI/10076138 PAGE: 1

PH: (405) 555-1212 FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

SOLD: Grooper Industries 13900 N Harvey
TO: Edmond, OK 73013

SHIP: Grooper Industries 13900 N Harvey
TO: Edmond, OK 73013

| ITEM NUMBER | ITEM DESCRIPTION | QUANTITY ORDERED | QUANTITY SHIPPED | STK UNIT | PRICE UNIT | DISCOUNT | EXTENDED PRICE |
|-------------|------------------|------------------|------------------|-----------|------------|----------|----------------|
| 100049766 | 11-11-08 | CUS001410 | 099325 | 010013704 | FXG | 12-03-08 | Net 30 |

Scale: 24 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Feature Occurrences: 0 | Total Classes: 0 | Class Trained Items: 0 | Total Weight: 0

| Feature | Count | CWF | CTC | CF | TF | IDF | Weight |
|---------|-------|-----|-----|----|----|-----|--------|
| | | | | | | | |

> Content Models / Invoices / (local resources) / Overrides / **[Enid] Sales Tax**

1. Click to edit the Context Zones property
2. In the Context Zones window, delete one of the zones
3. Edit the dimensions of the remaining zone:

| Zone | |
|--------|------|
| Left | -2.4 |
| Top | -0.2 |
| Right | 0.25 |
| Bottom | 0.1 |

4. Press **OK** to close the Context Zones window
5. In the Output section, set the Minimum Confidence property to **90%**

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
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 - OVERRIDES
 - [Enid] Sales Tax
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

64 results in 25 ms

General

 - Value Type String
 - Value Extractor "((@Number.){2,12})"
 - Type Internal
 - Pattern (Click to edit)
 - Feature Extractor Phrases
 - Type Reference
 - Referenced Extractor Phrases
 - Description

Context Scope Options

 - Context Scope Zonal
 - Context Zones (2 Rectangle objects) ...
 - Exclusion Extractor (empty)
 - GeoTag Features False
 - Classifier Tuning Minimum Feature Count 0

Context Zones

Batch: Invoices

Spandan (4)

Enid (5)

| Value | Page | Confidence |
|-------|------|------------|
| 10.71 | 1 | 100.0000 % |
| 00 | 1 | 81.6497 % |
| 08 | 1 | 0.0000 % |
| nr | 1 | 0.0000 % |

Image View Text View

FREIGHT

SALES TAX TOTAL

BALANCE DUE

Scale: 73% | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Feature Occurrences: 3 | Total Classes: 59 | Class Trained Items: 0 | Total Weight: 1.484300

| Feature | Count | CWF | TF | IDF | Weight |
|-------------|-------|-----|----------|----------|----------|
| total | 1 | 2 | 0.333333 | 1.484300 | 0.494767 |
| sales tax | 1 | 2 | 0.333333 | 1.484300 | 0.494767 |
| balance due | 1 | 2 | 0.333333 | 1.484300 | 0.494767 |

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
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 - OVERRIDES
 - [Enid] Sales Tax
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
 - Data Extraction
 - Global Resources
 - Infrastructure
 - Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction

64 results in 25 ms

General

 - Value Type String
 - Value Extractor "((@Number.){2,12})"
 - Type Internal
 - Pattern (Click to edit)
 - Feature Extractor Phrases
 - Type Reference
 - Referenced Extractor Phrases
 - Description

Context Zones

OK Cancel Add... Edit... Delete

Zone No Region

Zone 2 (-2.4,-0.2):(0.25,0.1)

| Left | Top | Right | Bottom | Width | Height |
|------|------|-------|--------|-------|---------------------|
| -2.4 | -0.2 | 0.25 | 0.1 | 2.65 | 0.30000000000000004 |

Left

Type: Double Default: 0

The left edge of the rectangle.

Image View Text View

FREIGHT

SALES TAX TOTAL

BALANCE DUE

Scale: 73% | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Feature Occurrences: 3 | Total Classes: 59 | Class Trained Items: 0 | Total Weight: 1.484300

| Feature | Count | CWF | TF | IDF | Weight |
|-------------|-------|-----|----------|----------|----------|
| total | 1 | 2 | 0.333333 | 1.484300 | 0.494767 |
| sales tax | 1 | 2 | 0.333333 | 1.484300 | 0.494767 |
| balance due | 1 | 2 | 0.333333 | 1.484300 | 0.494767 |

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - _Global
 - Extractors
 - Lexicons
 - Oversides
 - [Enid] Sales Tax
 - (data model)
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Field Class Weightings Contents Advanced

Save Cancel Run Extraction 1 results in 15 ms

Context Scope Options

- Context Scope: Zonal
- Context Zones: (1 Rectangle)
- Exclusion Extractor: (empty)
- GeoTag Features: False

Classifier Tuning

- Minimum Feature Count: 0
- Training Threshold: 0%
- Use Class Frequency: False
- Sublinear TF Scaling: False
- Smooth IDF: True

Output

- Minimum Confidence: 90%
- Collation Method: Individual
- Order By: Confidence
- Direction: Descending

Minimum Confidence

Batch: Invoices

Spartan (4)

Enid (5)

| Value | Page | Confidence |
|--------|------|------------|
| 101.71 | 1 | 100.0000 % |

SALES AMOUNT 1,271.40

DEPOSIT AMOUNT

FREIGHT 0.00

SALES TAX 101.71

TOTAL

ALANCE DUE 1,373.11

Scale: 73% | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

Feature Occurrences: 2 | Total Classes: 59 | Class Trained Items: 0 | Total Weight: 1.484300

| Feature | Count | CWF | TF | IDF | Weight |
|-----------|-------|-----|----------|----------|----------|
| total | 1 | 2 | 0.500000 | 1.484300 | 0.742150 |
| sales tax | 1 | 2 | 0.500000 | 1.484300 | 0.742150 |

> Content Models / Invoices / Enid

1. Click on the Data Element Profiles tab
2. Click on the Sales Tax Data Field and click the + button in the toolbar

File Edit Tools Help

Refresh Add Delete Rename Clone

ACE Architect 02

- Batch Processing
- Content Models
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Document Type Data Element Profiles Weightings Contents Advanced

Save Cancel Create Data Model Create Local Resources Folder Purge Training Rebuild Training

General

- Allow Training: True
- Page Scope - Data Extraction: (unlimited)
- Base Content Type: Document
- Description:

Classification Rules

- Positive Extractor: "enid parts"
- Negative Extractor: (empty)
- Minimum Pages: 0
- Maximum Pages: 0

Separation

- Pagination: Structured
- Combine Contiguous Documents: False

Data Model Preview

| | |
|----------------|----------------------|
| Invoice Number | <input type="text"/> |
| PO Number | <input type="text"/> |
| Invoice Date | <input type="text"/> |
| Freight | <input type="text"/> |
| Sales Tax | <input type="text"/> |
| Discount | <input type="text"/> |
| Invoice Amount | <input type="text"/> |
| Payment Terms | <input type="text"/> |
| Ship To | <input type="text"/> |
| Remit To | <input type="text"/> |

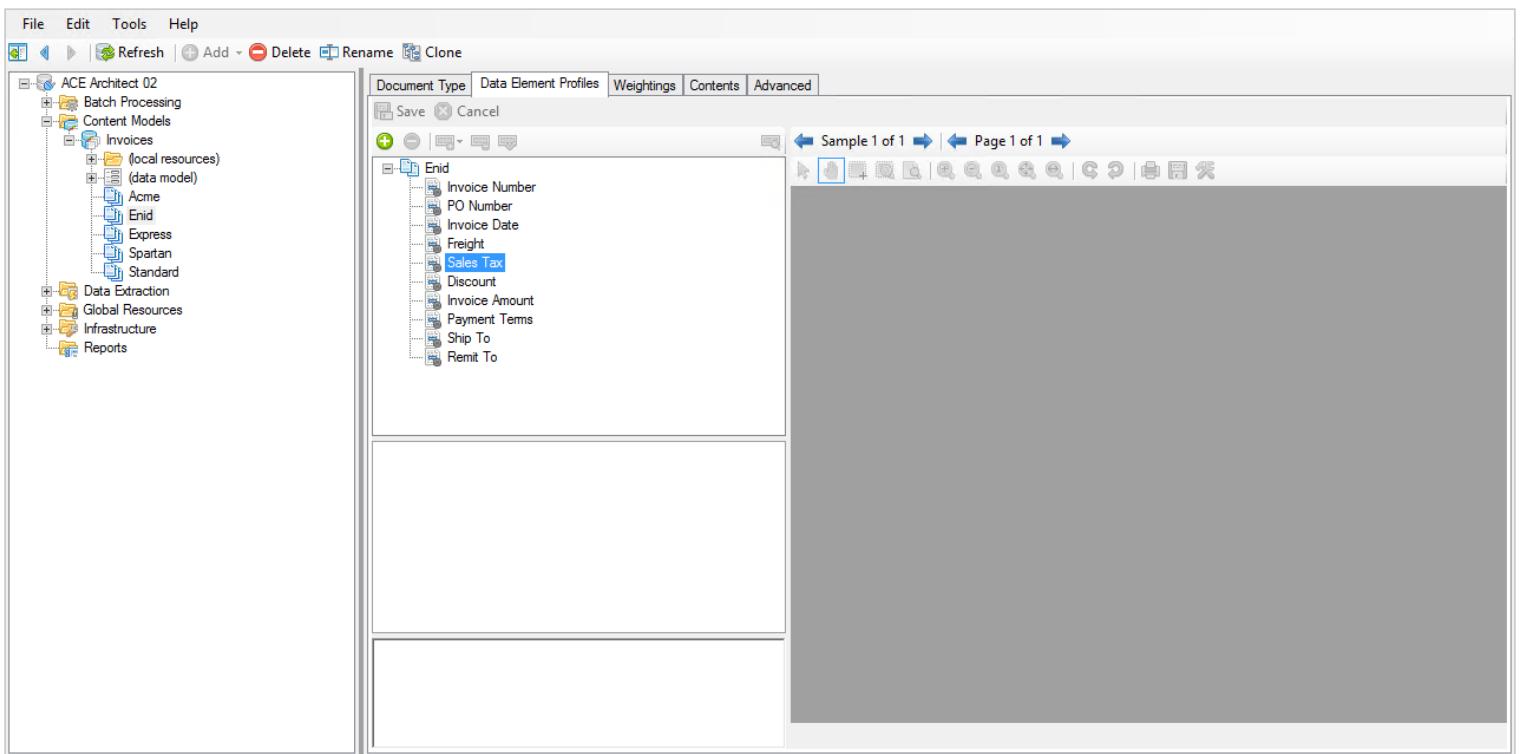
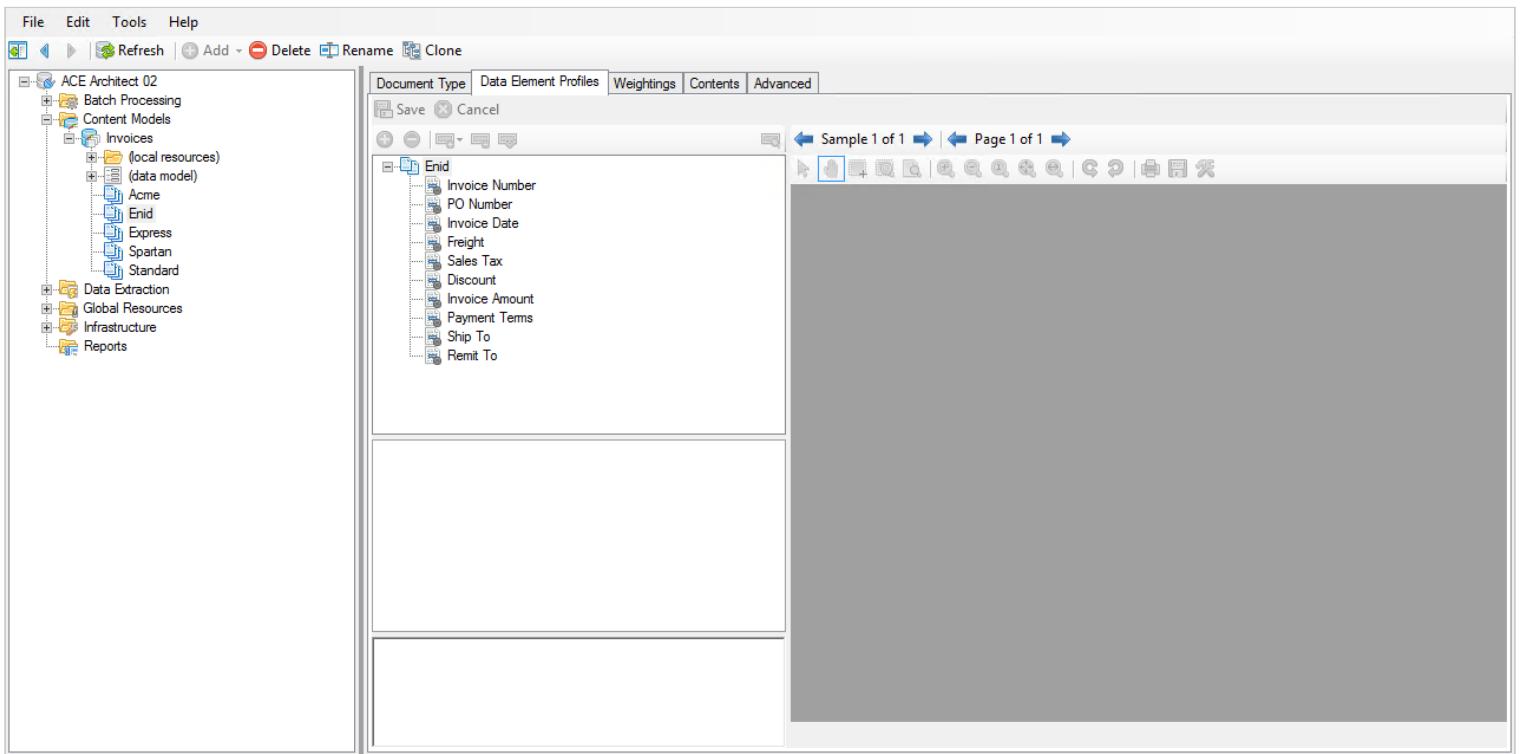
Document Type

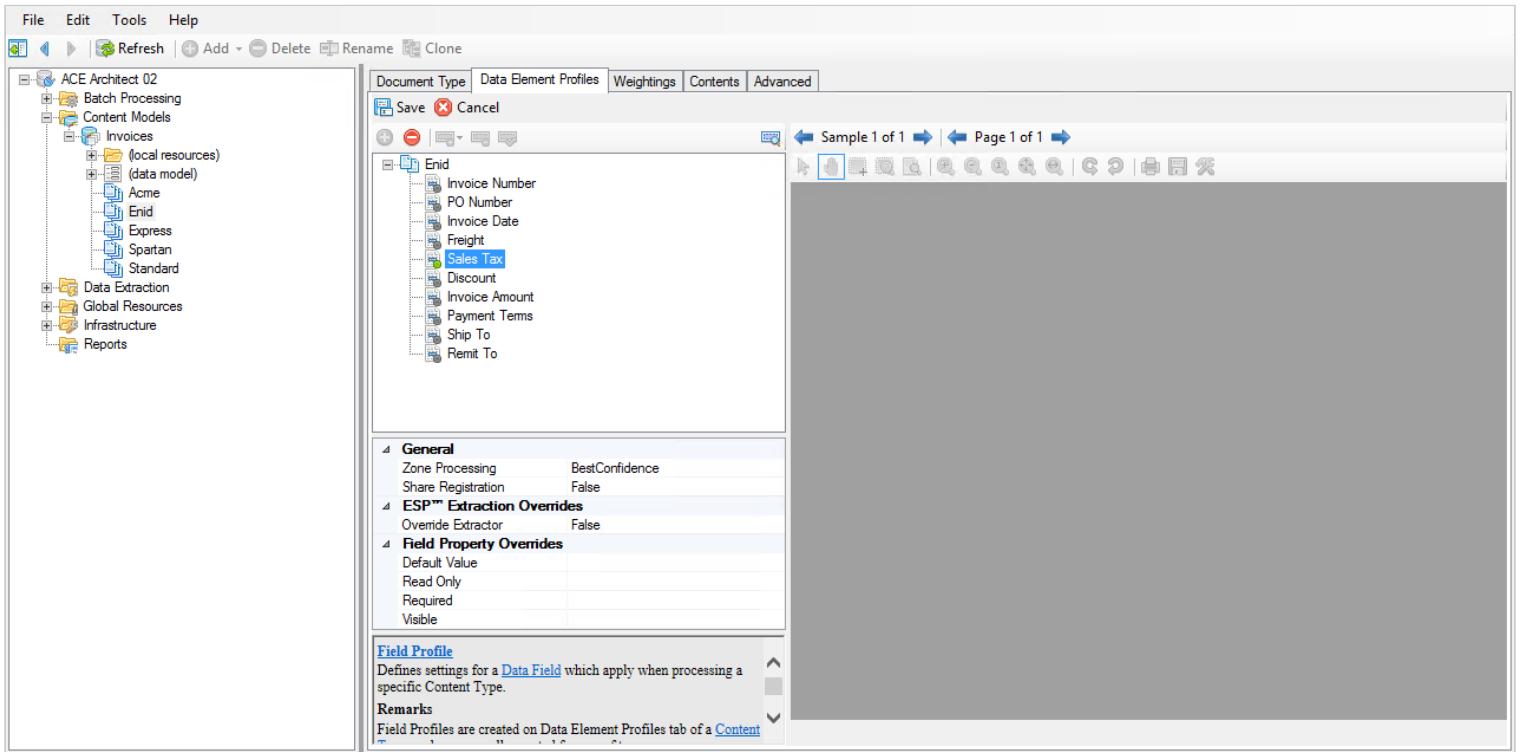
A Document Type is an object in a [Content Model](#) which represents a distinct type of document, such as an invoice or contract. Document Types are ultimately assigned to documents in a batch in a process called *classification*.

Remarks

Document Types are created as children of [Content Model](#) or [Content Category](#) objects. Once created, document types can be assigned to [Batch Folder](#) objects in a [Batch](#) manually using the [Batch Folder - Assign Document Type](#) command. The act of assigning a document type to a folder is called *classification*.

Classification is rarely performed manually by a user. In most cases, automated classification is used to classify documents based on their lexical content or visual appearance. To use automated classification, each document type must be trained with





> Content Models / Invoices / Enid

1. In the properties panel, set the ESP™ Extraction Overrides > Override Extractor property to True
2. Expand Extractor and set the Extractor > Type property to Reference
3. Set the Referenced Extractor property to the Invoices • (local resources) > Overrides > [Enid] Sales Tax Field Class

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
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Document Type | Data Element Profiles | Weightings | Contents | Advanced

Save | Cancel

Sample 1 of 1 | Page 1 of 1

Enid

- Invoice Number
- PO Number
- Invoice Date
- Freight
- Sales Tax
- Discount
- Invoice Amount
- Payment Terms
- Ship To
- Remit To

General

Zone Processing: BestConfidence
Share Registration: False

ESP™ Extraction Overrides

Override Extractor: **True**

Extractor: (empty)

Field Property Overrides

Default Value
Read Only
Required

Override Extractor

Type: Boolean Default: False

When set to true, indicates that the [Embedded Extractor](#) defined in the "Extractor" property below should override the field's Value Extractor.

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
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 - Acme
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Document Type | Data Element Profiles | Weightings | Contents | Advanced

Save | Cancel

Sample 1 of 1 | Page 1 of 1

Enid

- Invoice Number
- PO Number
- Invoice Date
- Freight
- Sales Tax
- Discount
- Invoice Amount
- Payment Terms
- Ship To
- Remit To

General

Zone Processing: BestConfidence
Share Registration: False

ESP™ Extraction Overrides

Override Extractor: **True**

Extractor: **[Enid] Sales Tax**

Field Property Overrides

Default Value

Referenced Extractor

Type: Grooper Node

When Type is set to 'Reference', specifies the external extractor to execute.

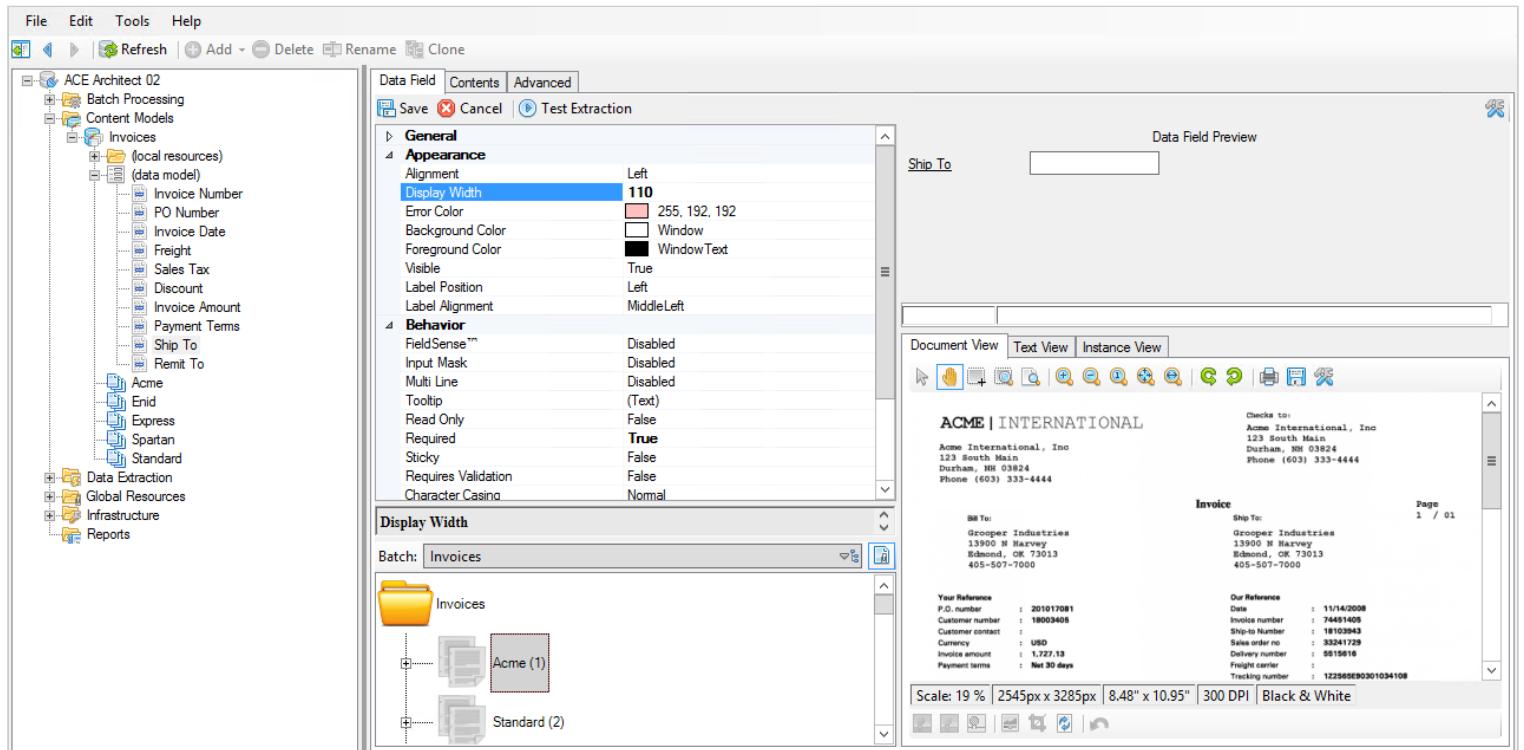
Property Type: [Grooper Node](#)

The referenced extractor path is: Invoices • (local resources) • _Global • Extractors • Lexicons • Overrides • [Enid] Sales Tax

Data Model Adjustments

> Content Models / Invoices / (data model) / **Ship To**

1. In the Appearance section, set the Display Width property to **110**
2. In the Behavior section, set the Multi Line property to **Enabled**
3. Expand Multi Line and set the Multi Line Height property to **45**
4. Set the Word Wrap property to **True**



ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
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- Data Extraction
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- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

Appearance

- Alignment: Left
- Display Width: 110
- Error Color: 255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True
- Label Position: Left
- Label Alignment: MiddleLeft

Behavior

- FieldSense™: Disabled
- Input Mask: Disabled
- Multi Line**: Enabled
- Tooltip: (Text)
- Read Only: False
- Required: True
- Sticky: False
- Requires Validation: False
- Character Casin...: Normal

Multi Line

Batch: Invoices

Ship To

Data Field Preview

Document View Text View Instance View

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship to: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

| | |
|-----------------|---------------|
| P.O. number | : 201017081 |
| Customer number | : 18003405 |
| Current contact | : 18103943 |
| Currency | : USD |
| Invoice amount | : 1,727.13 |
| Payment terms | : Net 30 days |

Our Reference

| | |
|-----------------|----------------------|
| Date | : 11/14/2008 |
| Invoice number | : 74461209 |
| Ship-to Number | : 18103943 |
| Sales order no | : 33241728 |
| Delivery number | : 5515616 |
| Freight carrier | : |
| Tracking number | : 122565E90301034108 |

Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field **Contents** **Advanced**

Save **Cancel** **Test Extraction**

General

Appearance

- Alignment: Left
- Display Width: 110
- Error Color: 255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True
- Label Position: Left
- Label Alignment: MiddleLeft

Behavior

- FieldSense™: Disabled
- Input Mask: Disabled
- Multi Line**: Enabled
- Multi Line Height: 45
- Word Wrap: True
- Tooltip: (Text)
- Read Only: False
- Required: True
- Sticky: False

Rubberband OCR Profile

Batch: Invoices

Ship To

Data Field Preview

Document View Text View Instance View

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Invoice

Ship to: Grooper Industries
13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference

| | |
|-----------------|---------------|
| P.O. number | : 201017081 |
| Customer number | : 18003405 |
| Current contact | : 18103943 |
| Currency | : USD |
| Invoice amount | : 1,727.13 |
| Payment terms | : Net 30 days |

Our Reference

| | |
|-----------------|----------------------|
| Date | : 11/14/2008 |
| Invoice number | : 74461209 |
| Ship-to Number | : 18103943 |
| Sales order no | : 33241728 |
| Delivery number | : 5515616 |
| Freight carrier | : |
| Tracking number | : 122565E90301034108 |

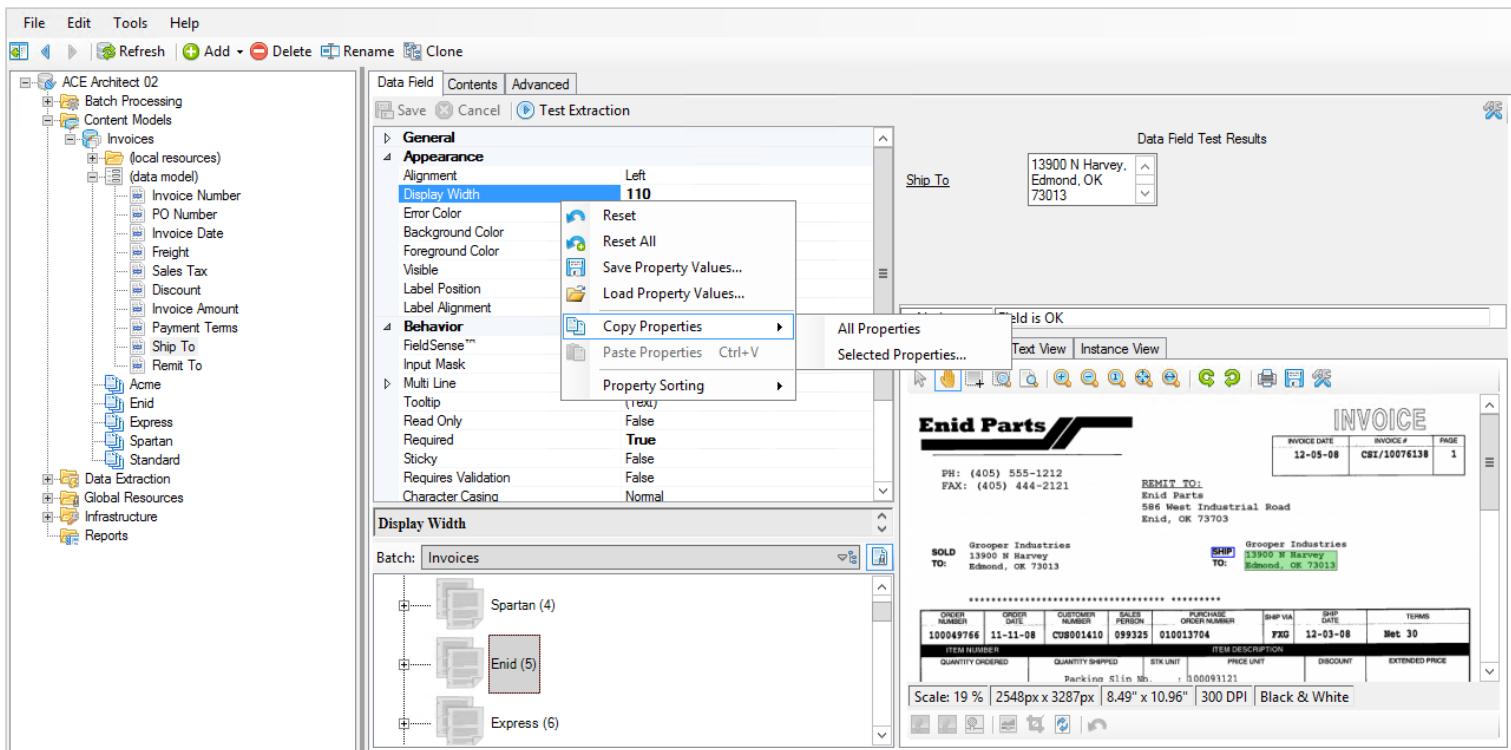
Scale: 19% | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

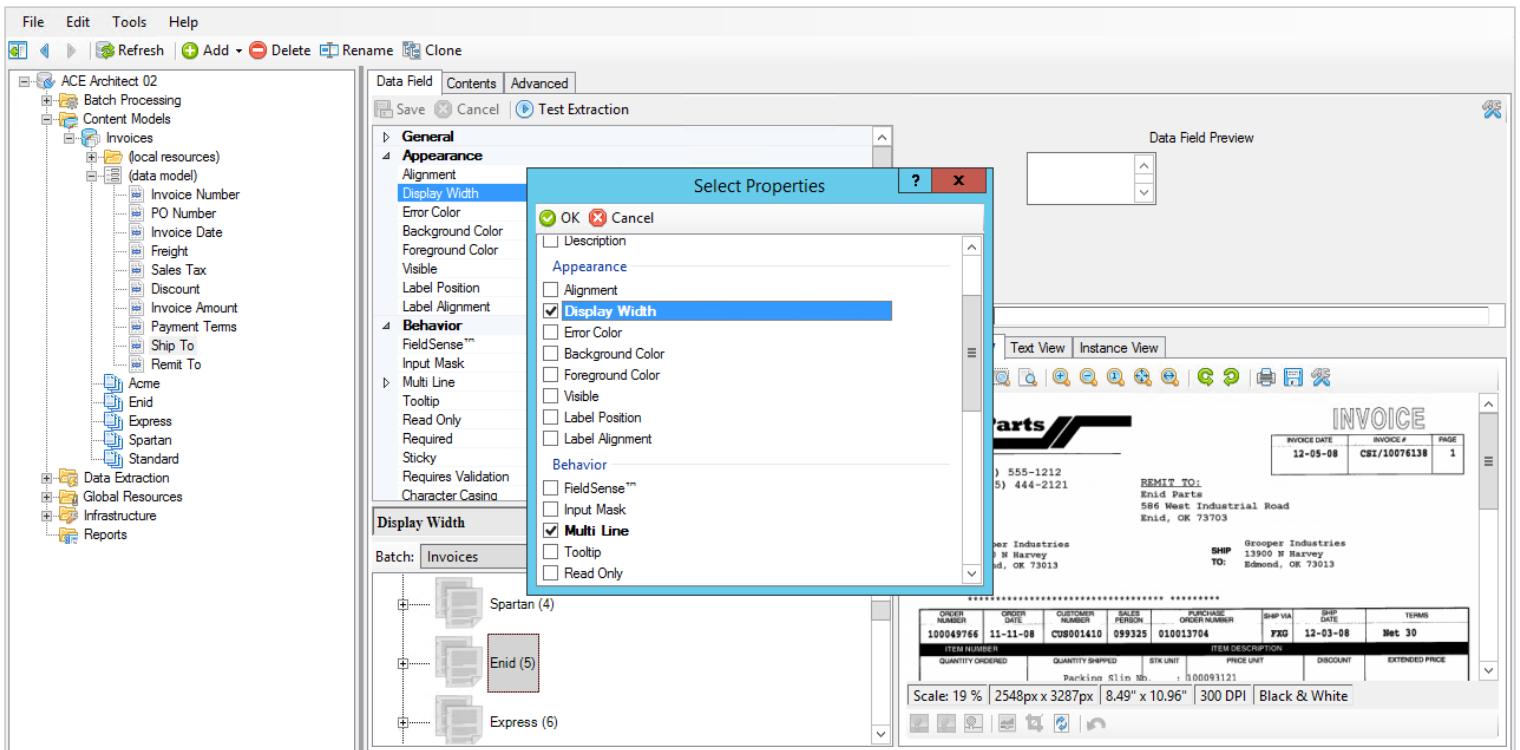
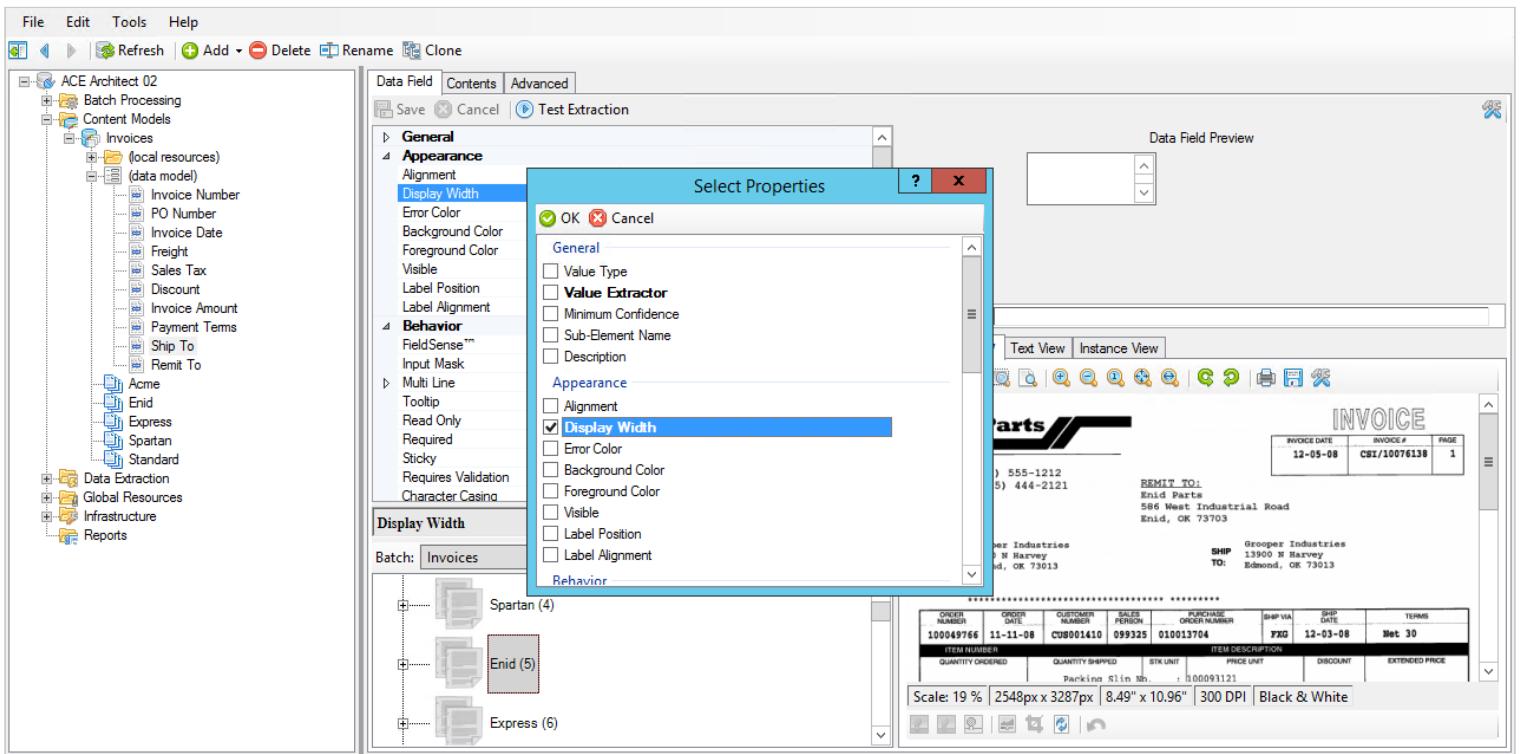
1. Right click on any of the property names and select Copy Properties > Selected Properties...

2. In the Select Properties window, check the boxes next to the properties to copy:

Display Width

Multi Line





> Content Models / Invoices / (data model) / Remit To

1. Right click on any of the property names and select Paste Properties

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
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 - (data model)
 - Invoice Number
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 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To**
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard

Data Extraction

Global Resources

Infrastructure

Reports

Data Field | Contents | Advanced | Save | Cancel | Test Extraction

General

Appearance

| | |
|------------------|---------------|
| Alignment | Left |
| Display Width | 100 |
| Error Color | 255, 192, 192 |
| Background Color | Window |
| Foreground Color | WindowText |
| Visible | True |
| Label Position | Left |
| Label Alignment | MiddleLeft |

Behavior

| | |
|---------------------|-------------|
| FieldSense™ | Disabled |
| Input Mask | Disabled |
| Multi Line | Disabled |
| Tooltip | (Text) |
| Read Only | False |
| Required | True |
| Sticky | False |
| Requires Validation | False |
| Character Casing | Normal |

Data Field Preview

Remit To

Document View | Text View | Instance View

Enid Parts

INVOICE

| | | |
|--------------|--------------|------|
| INVOICE DATE | INVOICE # | PAGE |
| 12-05-08 | C81/10076138 | 1 |

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

Grooper Industries
13900 N Harvey
Edmond, OK 73013

SHIP
Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

| ORDER NUMBER | ORDER DATE | CUSTOMER NUMBER | SALES PERSON | PURCHASE ORDER NUMBER | SHIP VIA | SHIP DATE | TERMS |
|------------------|------------------|-----------------|--------------|-----------------------|----------------|-----------|--------|
| 100049766 | 11-11-08 | CUS001410 | 099325 | 010013704 | FWD | 12-03-08 | Net 30 |
| ITEM NUMBER | ITEM DESCRIPTION | | | | | | |
| QUANTITY ORDERED | QUANTITY SHIPPED | STK UNIT | PRICE UNIT | DISCOUNT | EXTENDED PRICE | | |

Packing Slip No.: 100091121

Scale: 19 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources)
 - (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To**
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard

Data Extraction

Global Resources

Infrastructure

Reports

Data Field | Contents | Advanced | Save | Cancel | Test Extraction

General

Appearance

| | |
|------------------|---------------|
| Alignment | Left |
| Display Width | 100 |
| Error Color | 255, 192, 192 |
| Background Color | Window |
| Foreground Color | WindowText |
| Visible | True |
| Label Position | Left |
| Label Alignment | MiddleLeft |

Behavior

| | |
|---------------------|----------|
| FieldSense™ | Disabled |
| Input Mask | Disabled |
| Multi Line | Enabled |
| Tooltip | |
| Read Only | |
| Required | |
| Sticky | |
| Requires Validation | |
| Character Casing | |

Multi Line

 - Reset All
 - Save Property Values...
 - Load Property Values...
 - Copy Properties
 - Paste Properties **Ctrl+V**
 - Property Sorting

Data Field Preview

Remit To

Document View | Text View | Instance View

Enid Parts

INVOICE

| | | |
|--------------|--------------|------|
| INVOICE DATE | INVOICE # | PAGE |
| 12-05-08 | C81/10076138 | 1 |

PH: (405) 555-1212
FAX: (405) 444-2121

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

Grooper Industries
13900 N Harvey
Edmond, OK 73013

SHIP
Grooper Industries
13900 N Harvey
TO: Edmond, OK 73013

| ORDER NUMBER | ORDER DATE | CUSTOMER NUMBER | SALES PERSON | PURCHASE ORDER NUMBER | SHIP VIA | SHIP DATE | TERMS |
|------------------|------------------|-----------------|--------------|-----------------------|----------------|-----------|--------|
| 100049766 | 11-11-08 | CUS001410 | 099325 | 010013704 | FWD | 12-03-08 | Net 30 |
| ITEM NUMBER | ITEM DESCRIPTION | | | | | | |
| QUANTITY ORDERED | QUANTITY SHIPPED | STK UNIT | PRICE UNIT | DISCOUNT | EXTENDED PRICE | | |

Packing Slip No.: 100091121

Scale: 19 % | 2548px x 3287px | 8.49" x 10.96" | 300 DPI | Black & White

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
 - Acme
 - Enid
 - Express
 - Spartan
 - Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Field | Contents | Advanced | Save | Cancel | Test Extraction

General

Appearance

- Alignment: Left
- Display Width: 110
- Error Color: 255, 192, 192
- Background Color: Window
- Foreground Color:WindowText
- Visible: True
- Label Position: Left
- Label Alignment: MiddleLeft

Behavior

- FieldSense™: Disabled
- Input Mask: Enabled
- Multi Line:
 - Tooltip: (Text)
 - Read Only: False
 - Required: True
 - Sticky: False
 - Requires Validation: False
 - Character Casino: Normal

Multi Line

Batch: Invoices

Spartan (4)

Enid (5)

Express (6)

Data Field Preview

Document View | Text View | Instance View

Enid Parts

INVOICE

| | | |
|--------------|--------------|------|
| INVOICE DATE | INVOICE # | PAGE |
| 12-05-08 | CBI/10076138 | 1 |

REMIT TO:
Enid Parts
586 West Industrial Road
Enid, OK 73703

Grooper Industries
13900 N Harvey
Edmond, OK 73013

SHP Grooper Industries
TO: 13900 N Harvey
Edmond, OK 73013

| ORDER NUMBER | ORDER DATE | CUSTOMER NUMBER | SALER PERSON | PURCHASE ORDER NUMBER | SHIP VIA | SHIP DATE | TERMS |
|--------------|------------|-----------------|--------------|-----------------------|----------|-----------|--------|
| 100049766 | 11-11-08 | CUB001410 | 099325 | 010013704 | FWD | 12-03-08 | Net 30 |

ITEM DESCRIPTION

Scale: 19 % | 2548px x 3287px | 8.49" x 10.95" | 300 DPI | Black & White

> Content Models / Invoices / (data model)

1. In the Child Element Options section, set the Show Fields In Grid property to **True**
2. In the toolbar, click the Test Extraction button to test all fields against a document

File Edit Tools Help

Refresh | Add | Delete | Rename | Clone

ACE Architect 02

- Batch Processing
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- Global Resources
- Infrastructure
- Reports

Data Model | Extraction Testing | Scripting | Contents | Advanced | Save | Cancel | Test Extraction

General

- Show Content Type: False
- Description:

Multi-Level Display

- Show Level Header: True
- Level Header Alignment: MiddleLeft
- Level Header Background Color: Control
- Level Header Foreground Color: ControlText
- Level Header Font Style: Regular

Child Element Options

- Child Label Width: 100
- Show Fields In Grid: False

Appearance

- Background Color: Control
- Foreground Color: ControlText
- Label Position: Left
- Label Alignment: MiddleLeft

Behavior

- Preserve Character Data: False
- Rubberband OCR Profile:

Data Model

Batch: Invoices

Acme (1)

Standard (2)

Data Model Preview

Invoice Number

PO Number

Invoice Date

Freight

Sales Tax

Discount

Invoice Amount

Payment Terms

Ship To

Remit To

Document View | Text View | Instance View

ACME | INTERNATIONAL

Check to:
Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Scale: 19 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Model Extraction Testing Scripting Contents Advanced

Save Cancel Test Extraction

General

Multi-Level Display

Child Element Options

Child Label Width: 100
Show Fields In Grid: True
Field Label Background Color: Control
Field Label Foreground Color: ControlText

Appearance

Behavior

Data Model Preview

| | |
|----------------|--|
| Invoice Number | |
| PO Number | |
| Invoice Date | |
| Freight | |
| Sales Tax | |
| Discount | |
| Invoice Amount | |
| Payment Terms | |
| Ship To | |
| Remit To | |

Show Fields In Grid

Batch: Invoices

ACME | INTERNATIONAL

Check to: Acme International, Inc
123 South Main
Durham, NH 03824
Phone (603) 333-4444

Scale: 19 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White

Document View **Text View** **Instance View**

ACE Architect 02

- Batch Processing
- Content Models
 - Invoices
 - (local resources) (data model)
 - Invoice Number
 - PO Number
 - Invoice Date
 - Freight
 - Sales Tax
 - Discount
 - Invoice Amount
 - Payment Terms
 - Ship To
 - Remit To
- Acme
- Enid
- Express
- Spartan
- Standard
- Data Extraction
- Global Resources
- Infrastructure
- Reports

Data Model Extraction Testing Scripting Contents Advanced

Save Cancel Test Extraction

General

Multi-Level Display

Child Element Options

Child Label Width: 100
Show Fields In Grid: True
Field Label Background Color: Control
Field Label Foreground Color: ControlText

Appearance

Behavior

Data Model Test Results

| | |
|----------------|-------------------------------------|
| Invoice Number | 74451405 |
| PO Number | 201017081 |
| Invoice Date | 11/14/2008 |
| Freight | \$4.20 |
| Sales Tax | \$0.00 |
| Discount | \$246.13 |
| Invoice Amount | \$1,727.13 |
| Payment Terms | Net 30 |
| Ship To | 13900 N Harvey,
Edmond, OK 73013 |
| Remit To | 123 South Main,
Durham, NH 03824 |

Show Fields In Grid

Batch: Invoices

No Issues Field is OK

Document View Text View Instance View

13900 N Harvey
Edmond, OK 73013
405-507-7000

13900 N Harvey
Edmond, OK 73013
405-507-7000

Your Reference Date: 11/14/2008 Our Reference Date: 11/14/2008

Scal: 19 % | 2545px x 3285px | 8.48" x 10.95" | 300 DPI | Black & White