# Perceptive Accounts Payable Invoice eForm

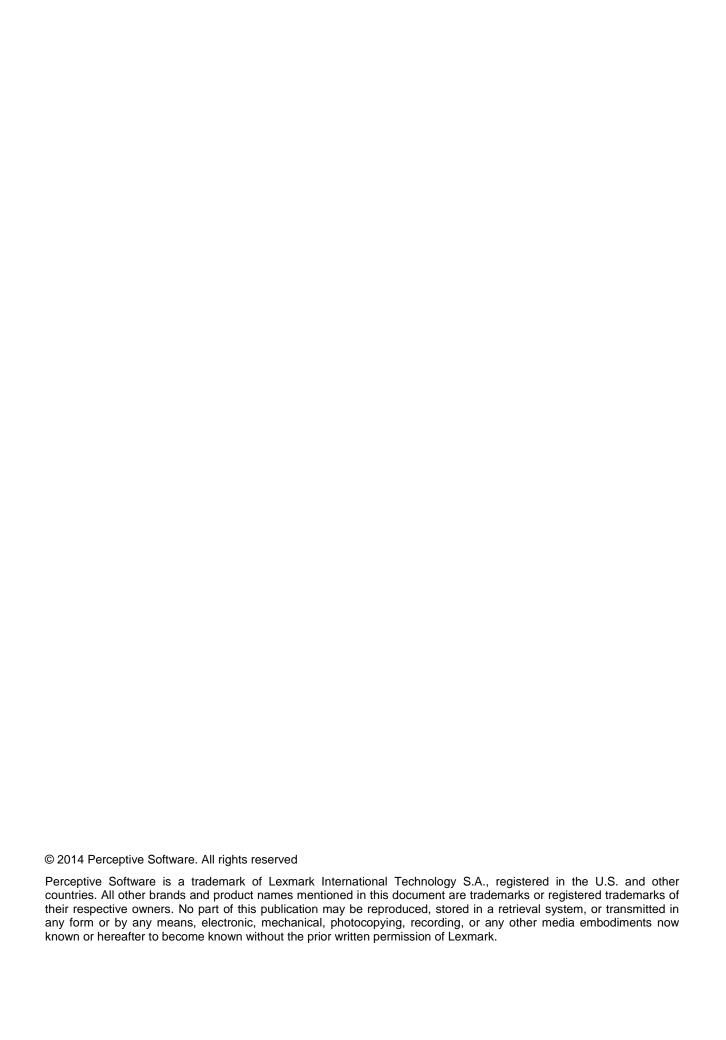
Advanced Design and Setup Guide

Version: 12.1.x

ImageNow Version: 6.7.x or higher







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## Configuration overview

Installing and configuring Accounts Payable (AP) Invoice eForm consists of three main processes. This guide reviews the final configuration process.

The process you have already completed: First, you installed the eForm on ImageNow Server, with steps detailed in the *Perceptive AP Invoice eForm Installation and Setup Guide*. Then, you imported the data required for processing invoices from your enterprise resource planning (ERP) application, such as Lawson. With this data, you created virtual tables, as described in the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*.

Finally, you complete the AP Invoice eForm preparation by configuring the solution with the specific features that your back office requires. This guide covers the steps you need to complete these configuration tasks.

- Configure a workflow
- Configure validation within the eForm
- Configure value added tax within the eForm
- Configure goods receipts within the eForm for SAP
- · Configure add on cost (AOC) within the eForm
- Configure AP Invoice eForm for a global environment

For information on custom scripting with the eForm, which is an optional setup process, refer to **Appendix E: Custom logic**.

## AP Invoice processing compatibility matrix

The following table maps the compatible versions of ImageNow Server and Perceptive Accounts Payable (AP) Invoice eForm.

To determine compatibility with versions of AP Invoice eForm prior to 10.0.0.28, contact your Perceptive Software representative.

ImageNow Server	Perceptive AP Invoice eForm
6.5.1.149 to 6.6.x	10.0.0.28 to 12.1.x *
6.7.x	10.1.0.307 to 12.1.x
6.8.x	10.4.0.234 to 12.1.x

**Note** Perceptive AP Invoice eForm 12.1.x, when used with Perceptive Connector for SAP Financials, is compatible with ImageNow 6.7.x or higher.



## Configure a workflow for AP Invoice eForm

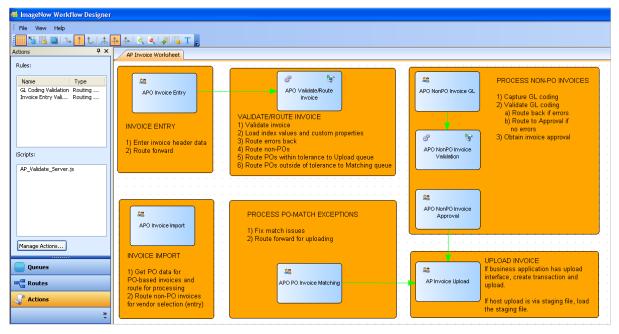
To configure a new or existing workflow with AP Invoice eForm, complete the following tasks.

- Create or configure a workflow process for AP
- Configure routing rules
- Add the eForm and iScripts to queues

While this section provides detailed configuration steps, the workflow process, queues, and routing rules are primarily an example. You may tailor the workflow and its components to meet your back office requirements. For more information on completing other workflow tasks, such as designating workflow queue leads or drawing containers, refer to the *ImageNow Workflow Designer Help* available at www.perceptivesoftware.com, in the Customer Portal.

## Example: A configured AP workflow process

Before you start configuring your AP workflow process, here is an example of a completed AP workflow process.



## Create or configure a workflow process for AP

You can use any names for the queues in this workflow process. The names we provide here for examples correspond to the default mappings in AP\_Skin.xml. If you use alternate naming, update the <roles> element in the AP\_Skin.xml file with those queue names.

- 1. Create the following work queues in your process:
  - APO Invoice Entry
  - APO NonPO Invoice GL
  - APO PO Invoice Matching
  - APO Invoice Upload
  - APO Error
  - APO NonPO Invoice Approval
- 2. Create the following system queues in your process:
  - APO Validate/Route Invoice
  - APO NonPO Invoice Validation

## Configure routing rules

You must configure routing rules to use with the form in your workflow process. The AP Invoice eForm installer created the custom properties used in routing rule setup.

The procedures in this section are not exhaustive and do not outline every method you can use to set up the routing rules specific to your particular AP Invoice Form implementation.

## Create Invoice Entry Validation routing rules

To create Invoice Entry Validation routing rules in your invoice workflow process, complete the following steps.

- 1. From the Workflow Designer task pane, click Actions.
- 2. In the task pane, click Manage Actions.
- 3. In the **Action Settings** dialog box, on the **Rules** tab, click **New**.
- 4. In the **Rules Editor** dialog box, complete the following substeps.
  - 1. In the Rule name box, type Invoice Validation.
  - 2. In the Rule type list, click Routing rule.
  - 3. Complete the following procedures, detailed in the following sections.
    - Create a rule to route back for header error conditions
    - Create a routing rule for non-PO invoices
    - Create a routing rule for PO-based invoices within tolerance
    - Create a routing rule for PO-based invoices outside of tolerance



#### Create a rule to route back for header error conditions

In the event of an error header message, you can route documents back to the APO Invoice Entry queue. For more information on validation and some possible error messages, refer to **Configure validation** within the eForm. Complete the following steps.

- 1. In the Rules Editor dialog box, under Statements, click New.
- 2. In the **Statement Editor** dialog box, complete the following substeps:
  - 1. In the Statement name box, type Error Condition Route Back.
  - 2. Under Conditions, click the Add icon.
  - 3. In the **Add Condition** dialog box, complete the following substeps:
    - 1. In the Constraint by list, select Custom property.
    - 2. In the Type list, select Normal.
    - 3. In the Field list, select AP Header Valid.
    - 4. In the Operator list, select starts with.
    - 5. In the Value box, type ERR.
    - 6. Click **OK** to close the **Add Condition** dialog box.
  - 4. Under Actions, click Add and select Route to.
  - 5. In the **Queues** dialog box, complete the following substeps:
    - 1. In the **Business Process** list, select your workflow process.
    - 2. Under **Available queues**, select **APO Invoice Entry** or the name of the queue in your process where invoice header data is entered and then click **Add**.
    - 3. Click **OK** until you return to the **Statement Editor** dialog box.

#### Create a routing rule for non-PO invoices

To route non-PO invoices to a specific queue, such as the APO Non-PO Invoice GL queue, create a routing rule. Complete the following steps.

**Note** This statement is necessary only if you are processing both PO-based and non-PO invoices with the form.

- 1. In the Rules Editor dialog box, under Statements, click New.
- 2. In the **Statement Editor** dialog box, complete the following substeps:
  - 1. In the Statement name box, type Non-PO Invoice.
  - 2. Under Conditions, click the Add icon.
  - 3. In the **Add Condition** dialog box, complete the following substeps:
    - 1. In the Constraint by list, select Document key.
    - 2. In the **Type** list, select **Normal**.
    - In the Field list, select Field5 or the field in your indexing structure where the PO number is stored.
    - 4. In the **Operator** list, select **is equal to**.



- 5. In the Value box, select Default.
- 6. Click **OK** to close the **Add Condition** dialog box.
- 4. Under Actions, click Add and select Route to.
- 5. In the **Queues** dialog box, complete the following substeps:
  - 1. In the **Business Process** list, select your workflow process.
  - 2. Under **Available** queues, select **APO Non-PO Invoice GL** or the name of the queue in your process where general ledger (GL) coding is entered, and then click **Add**.
  - 3. Click **OK** until you return to the **Statement Editor** dialog box.

#### Create a routing rule for PO-based invoices within tolerance

To route PO-based invoices within tolerance to a specific queue, such as the APO Invoice Upload queue, complete the following steps.

- 1. In the Rules Editor dialog box, under Statements, click New.
- 2. In the **Statement Editor** dialog box, complete the following substeps:
  - 1. In the Statement name box, type PO-Based Invoice Within Tolerance.
  - 2. Under Conditions, click the Add icon.
  - 3. In the **Add Condition** dialog box, complete the following substeps:
    - 1. In the Constraint by list, select custom property.
    - 2. In the Type list, select Normal.
    - 3. In the Field list, select PO Variance Factor.
    - 4. In the Operator list, select is equal to.
    - 5. In the Value box, type 0.
    - 6. Click **OK** to close the **Add Condition** dialog box.
  - 4. Under Actions, click Add and select Route to.
  - 5. In the **Queues** dialog box, complete the following substeps:
    - 1. In the **Business Process** list, select your workflow process.
    - Under Available queues, select APO Invoice Upload or the name of the queue in your process for invoice upload and then click Add.
    - 3. Click **OK** until you return to the **Statement Editor** dialog box.

#### Create a routing rule for PO-based invoices outside of tolerance

To route PO-based invoices outside of tolerance to a specific queue, such as the APO PO Invoice Matching queue, complete the following steps.

Note This statement is necessary only if you are processing PO invoices with the form.

- 1. In the Rules Editor dialog box, under Statements, click New.
- 2. In the **Statement Editor** dialog box, complete the following substeps:
  - 1. In the Statement name box, type PO-Based Invoice Outside of Tolerance.
  - 2. Under Conditions, click the Add icon.



- 3. In the **Add Condition** dialog box, complete the following substeps:
  - 1. In the Constraint by list, select custom property.
  - 2. In the Type list, select Normal.
  - 3. In the Field list, select PO Variance Factor.
  - 4. In the Operator list, select is not equal to.
  - 5. In the Value box, type 0.
  - 6. Click OK.
- 4. Under Actions, click Add and select Route to.
- 5. In the **Queues** dialog box, complete the following actions:
  - 1. In the Business Process list, select your workflow process.
  - 2. Under **Available queues**, select **APO PO Invoice Matching** or the name of the queue in your process for PO invoice matching and then click **Add**.
  - 3. Click **OK** until you return to the **Workflow Designer** task pane.

## Create a GL Coding Validation routing rule

Complete the following actions to create a GL Coding Validation routing rule.

- 1. From the Workflow Designer task pane, click Actions.
- 2. In the task pane, click Manage Actions.
- 3. In the Action Settings dialog box, on the Rules tab, click New.
- 4. In the **Rules Editor** dialog box, complete the following substeps:
  - 1. In the Rules name box, type Invoice Validation.
  - 2. In the Rule type list, select Routing rule.
  - Under Statements, complete the following substeps to include a statement for Check for Errors in GL Coding:
    - 1. Click New.
    - 2. In the **Statement Editor** dialog box, complete the following substeps:
      - 1. In the Statement name box, type Check for Errors in GL Coding.
      - 2. Under Conditions, click the Add icon.
      - 3. In the **Add Condition** dialog box, complete the following substeps:
        - 1. In the Constraint by list, select Custom property.
        - 2. In the Type list, select Normal.
        - 3. In the Field list, select AP Detail Valid.
        - 4. In the Operator list, select starts with.
        - 5. In the Value box, type ERR.
        - 6. Click **OK** to close the **Add Condition** dialog box.
      - 4. Under Actions, click Add and select Route to.



- 5. In the **Queues** dialog box, complete the following substeps:
  - 1. In the **Business Process** list, select your workflow process.
  - 2. Under **Available queues**, select **APO NonPO Invoice GL** or the name of the queue in your process where GL coding is entered and then click **Add**.
  - 3. Click **OK** until you return to the **Workflow Designer** task pane.

## Add the eForm and iScripts to gueues

After you add the server validation script and create the routing rules used in the eForm workflow process, you must modify the properties of the workflow queues and add the eForm to user work queues.

Assign the AP invoice form to the following queues:

- APO Invoice Entry
- APO NonPO Invoice GL
- APO NonPO Invoice Approval
- APO PO Invoice Matching

Apply the AP\_Validate\_Server.js script as an inbound action to the following queues:

- APO Validate/Route Invoice
- APO NonPO Invoice Validation
- APO Invoice Upload

Apply Invoice Entry Validation routing rule as a within queue action to the following queues:

- APO Validate/Route Invoice
- GL Coding Validation

## Configure validation within the eForm

AP Invoice eForm includes both client-side and server-side methods of data validation.

**Client-side validation** allows your users to verify their data in the eForm user interface instantly. The user also receives feedback as he or she types values into fields, or upon clicking the "Validate" button on the form. The user interface error messages and field-flagging enables users to correct errors or omissions before saving or routing the eForm.

**Server-side validation** completes eForm verification with the AP\_Validate\_Server.js script, when run as a queue action. This validation process processes all AP Invoice eForm documents that pass through the queue, regardless of whether a user views or modifies document in the user interface. The validation script creates error codes, which you can use when creating routing rules.

To configure validation, review and complete the following tasks, as necessary.



## Enable validation for specific roles and queues

#### Client-side validation for specific roles

Client-side validation takes place within queues attributed to a role, such as Invoice Entry. The first step towards allowing any validation to occur in the user interface is to enable the role or roles. Complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. Locate the <roles> node.
- 3. For any queue that requires header-level, client-side validation, in the corresponding role> element,
   set the header attribute to enabled. To run detail-level validation, enable the corresponding detail
   attribute. In this example, to enable client-side validation in a queue called APO Invoice Entry, you
   enable the Invoice Entry role.

#### Server-side validation for specific queues

Server-side validation occurs within a queue that includes the AP\_Validate\_Server.js script as an action.

## Configure the duplicate invoice check

The duplicate invoice check validates a new invoice against other invoices in ImageNow to determine if it is a duplicate.

**Client action**: The eForm checks for duplicate invoices after the user provides values for the fields used to determine the uniqueness of an invoice. For example, the eForm could search for duplicate invoices using the values of the Invoice Number and Vendor ID fields. It provides the error message "A duplicate invoice exists in the system. To resolve the conflict, review the current invoice and make any necessary changes."

There are two forms of duplicate invoice check available.

- The original **duplicate invoice check** method validates the Invoice Number and Vendor Number values against all other invoices in the system.
- The advanced duplicate invoice check method allows you to specify an ImageNow view, the specific eForm fields to examine, the number of values that indicate a duplicate invoice, and a tolerance level for those values.

If you enable both forms of duplicate invoice check, AP Invoice eForm defaults to the original validation method.



## Duplicate invoice check

To configure the original duplicate invoice check validation, complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Config.xml with a text editor.
- 2. In the <dupcheck> and <dupcheck\_vsl> elements, set the enabled attribute to true.
- 3. The default fields for the **Invoice Number** and **Vendor ID** fields are tab (field2) and f3 (field3). To specify alternate locations for these values in your specific eForm solution, choose from the following values.
  - [folder]or[field1]
  - [tab]or[field2]
  - [f3]or[field3]
  - [f4]or[field4]

- [f5]or[field5]
- [doctype]
- [drawer]
- {any custom property}
   For example, {Invoice Number}

## Advanced duplicate invoice check

To configure the advanced duplicate invoice check validation, complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Config.xml with a text editor.
- 2. In the <dupcheck> Set the enabled attribute to true.
- 3. In the <statement> element, complete the following substeps.
  - To enable the advanced duplicate invoice check, set enabled attribute to true.
  - To specify a custom view to match against literals, set the view attribute to the name of the view. The default view is All Documents.
  - To set the number of values that must match to indicate a duplicate invoice, set the match attribute with an integer. The default is 2.
- 4. Between the <statement> element tags, specify which fields you want AP Invoice eForm to check. Specify a number greater than or equal to the number of values you specified within the element, and use the | delimiter. Use any of the following fields:
  - AddlAmt<1 to 8>
  - CompanyNumHdr
  - FreightAmount
  - Hdr<1 to 8>
  - InvoiceDate
  - InvoiceNumber
  - InvoiceReferenceNumber

- LocationCode
- MiscCharge
- PONumber
- TaxAmount
- TotalAmount
- VendorID



- 5. Optional. To specify a tolerance level with an amount or percent, complete one of the following steps.
  - To set a tolerance amount, following the eForm field name, add # and an integer representing the variance amount. For example, to specify a Total Amount field variance of 3 currency units, such as \$3.00, type TotalAmount # 3. In this instance, if all other conditions applied, a Total Amount value of \$9.50 would match a Total Amount value of \$12.00, and the eForm would indicate a duplicate invoice. You may specify a tolerance amount with decimals, such as .01 for one US cent.
  - To set a variance percent for matching an eForm field, include % and an integer representing the variance percent. For example, to specify a variance percent of 10%, type TotalAmount % 10.

**Example:** The default settings create a duplicate invoice check that examines the VendorID, Invoice Number, and Total Amount fields in the All Documents view. The Total Amount field includes a range of +/- 5. If the user enters matching values in two or more fields, the invoice check indicates a duplicate.

<statement view="All Documents" match="2" enabled="true">VendorID | InvoiceNumber |
TotalAmount # 5 </statement>

## Configure header-level and line-level required fields

Required-field validation verifies that every field you mark as required contains a value.

**Client action:** The eForm flags any blank, required fields with a red box or red highlighting, and provides the error message "Required fields are missing."

**Server action:** The validation script sends the error key ERR\_REQUIRED\_FIELDS to the AP Header Valid or AP Detail Valid custom property.

Complete the following client-side and server-side configuration tasks.

#### Client-side validation

Complete the following steps.

- 1. In AP Skin.xml, locate the <fields> node.
- 2. For the first field you want to set as required, locate the corresponding <header>, <poline>, or <qline> element. For example, the element for the Business Unit field is:

```
<header label="lblBusinessUnit" field="cboBusinessUnit">
```

- 3. Set the required and visible attributes to "true", and set the disabled attribute to "false".
- 4. To set additional fields as required, repeat the previous steps.

#### Server-side validation

Complete the following steps.

- 1. In AP\_Validate\_Server.xml, in the <required\_fields> element, set the enabled attribute to "true".
- 2. To enable the PO, non-PO, or credit memo header fields, set the corresponding enabled attribute to "true". For example, <pohdr enabled="true">.
- 3. To require a header-level field, such as CompanyNumHdr, in the <worksheet> element, set the enabled attribute to "true".



- 4. To enable the PO or GL detail fields, set the corresponding enabled attribute to "true". For example, cpodetail enabled="true">.
- 5. To require a PO or GL line-level field, under the <podetail> or <gldetail> node, in the corresponding <worksheet> element, set the enabled attribute to "true". For example, <worksheet enabled="true" field="ItemNumber">.

## Configure GL code validation

In AP Invoice eForm, the GL code fields appear under the GL DISTRIBUTIONS section. Example GL codes include Account, Sub Account, Unit, and Cost Center. In AP\_Skin.xml, you can configure which of these GL codes to display and how the field displays in the user interface. You can also configure two types of validation.

With GL code validation, the eForm can check user-provided values in GL code fields against available, corresponding values in the GL Codes virtual table. In the client, the eForm can also verify the authorization of the user entering values on a field-by-field basis. You can enable these validation methods together or separately.

**Client action:** The eForm flags any fields with an invalid or restricted value with a red box or red highlighting. It displays the error message "GL codes are invalid."

**Server action:** The validation script sends the error key ERR\_GL\_CODES\_INVALID to the AP Detail Valid custom property.

To enable GL code validation, review and complete the following tasks, as needed.

- Configure the GL Codes source values
- . (Optional) Configure the GL User and GL Code virtual tables with constraints
- Enable the GL code validation

## Configure the GL Codes source values

To validate the values of GL codes in the eForm, you must configure the GL Codes virtual table with source numbers. For virtual table information, refer to the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*. We recommend keeping this guide open or available, as this section heavily references the example virtual tables.

In AP\_Skin.xml, each <glline> element represents a GL Code field, and includes a source attribute. This attribute links to the GLNumber column of the GL Code virtual table, indicating which GL Codes are valid for the field. To enable validation of each GL code you use in AP Invoice eForm, complete the following steps.

- In your GL Code virtual table, verify or configure source numbers in the GLNumber column for each row.
- For client-side validation: in **AP\_Skin.xml**, for each GL code your eForm uses, in the <gli>element, specify the source attribute with a source number.
- For server-side validation: in AP\_Validate\_Server.xml, under <glcode\_validation>, for each GL code, specify the source attribute with the same source number.

For example: In the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*, in the "GL Code" example table, in the GLNumber column, note that the source number 1 corresponds to the GLCode column values of 100 and 200. In this instance, if you set the source attribute for **IbIGL1** to 1, then the



eForm validates that the user types either 100 or 200 into the first GL Code in the eForm, such as **Account**.

#### AP Skin.xml

```
<glline label="lblGL1" showdesc="true" searchable="true" freeform="false" source="1"
line="1" typeaheadchars="2" visible="true" disabled="false" required="true"
width="50px" captionkey="LBL_GLLINE_GL1" descriptionkey="LBL_GLLINE_GL1_DESC"/>
```

#### AP Validate Server.xml

<worksheet enabled="false" field="GL1" source="1"></worksheet>

## Configure the GL User and GL Code virtual tables with constraints

Optional. To validate the authorization of a user to provide a specific value in a GL Code, you must configure the GL User and GL Code virtual tables with constraints. This validation occurs only in the client, and does not have a server-side counterpart. Complete the following steps.

- 1. In your **GL User** virtual table, create a row for every AP Invoice eForm user. Provide the username in the **UserName** column.
- 2. Specify a pair of constraints for each user, for example **Department\_01** and **KCMO**.
  - Note Valid constraints include strings or numbers.
- In your GL Code virtual table, to configure which users can access each GL code value, specify the constraint columns for each row.

Note To allow all users to access a GL code, use the constraint ALL for both columns.

For example, referring to the Constraint columns in the GL Code and GL User, note that user JDOE could use the values 1101 and 1102, while user JJONES could use the value 1103. Each code has a different source, which indicates that users JDOE and JJONES would use the values in different GL Code fields, such as Account vs. Unit.

#### Enable the GL code validation

To enable the value and (optional) user constraint validation of your GL codes, complete the following steps.

#### Client-side validation

• In **AP\_Skin.xml**, under the <fields> node, for each GL code you want to validate in the client, set the freeform and disabled attributes to false, and set visible to true. For example,

```
<glline label="lblGL1" field="txtGL1" showdesc="true" searchable="true"
freeform="false" source="1" line="1" typeaheadchars="2" visible="true"
disabled="false" required="true" width="50px" captionkey="LBL_GLLINE_GL1"
descriptionkey="LBL_GLLINE_GL1_DESC"/>
```

Note The GL code elements include the label attribute lblgL<1 to 24>.

#### Server-side validation

For each GL Code you enabled for validation in the previous section, enable validation in AP\_Validate\_Server.xml. Complete the following steps.

1. In AP\_Validate\_Server.xml, in the <glcode\_validation> element, set the enabled attribute to "true".



2. Under the <glcode\_validation> element, for each GL code you enabled in AP\_Skin.xml, enable the corresponding <worksheet> element.

## Configure GL account validation

GL account validation verifies the data your users enter in the eForm against the corresponding column of the GL Account virtual table. For more information about this virtual table, in the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*, refer to the "GL Account" section.

**Client action:** The eForm flags the GL line and displays the error message "One or more invalid GL Accounts."

**Server action:** The validation script sends the error key ERR\_GLACCT to the AP Detail Valid custom property.

#### Client-side validation

For each field on which you want to enable validation, complete the following step.

• In AP\_Skin.xml, under the <fields> node, for each GL account you want to validate, set the visible and required attributes to "true" and set disabled to "false". For example,

```
<glline label="lblGLAcct" field="txtGLAcct" line="1" visible="true" maxlength="10"
required="true" disabled="false" width="50px" captionkey="LBL_GLACCT_GLACCT"/>
```

**Note** The GL account elements include the seven elements between the label="lblGLBusUnit" and label="lblGLAcct6".

#### Server-side validation

- 1. In AP Validate\_Server.xml, enable the <glaccount\_validation> element.
- 2. Under the <glaccount\_validation> node, for each GL account you want to validate, enable the corresponding <worksheet> element. For example,

```
<worksheet enabled="true" field="GLAcct"></worksheet>
```

## Configure the Invoice Total field validation

AP Invoice eForm allows you to validate the Invoice Total field in PO, non-PO, and credit memo invoices.

PO invoice validation compares the header-level Invoice Total against the line-level Invoice Lines amount total

**Non-PO** and **credit memo** validation methods compare the header-level Invoice Total with the GL Distributions amount total.

## Configure amount validation and distribution in PO invoices

For PO invoices, AP Invoice eForm validates the header-level Invoice Total amount against the line-level Invoice Lines amount total. To configure this validation, you can choose whether to include Sales Tax, Freight, Misc, and eight other available "additional charges" in the Invoices Lines amount total.

In other words, if you include additional amounts, the eForm verifies:

#### (Invoice Total) = (Invoice Lines) + (included additional charges)

You can also allow users to distribute additional amounts from the header-level fields into general ledger-level fields, under GL DISTRIBUTIONS.



If using the Perceptive Intelligent Capture Connector and the "run\_ic\_mapping" element is enabled, then additional functionality is available. For each header-level field, such as include\_tax, if enabled and distributed are both set to "true," the eForm automatically creates a new GL DISTRIBUTIONS section with a single GL line. For more information about validation with Intelligent Capture Connector, refer to Intelligent Capture Connector value-mapping validation below.

**Client action:** The eForm flags the **To Be Distributed** amounts with red boxes. It displays the error message "Invoice Amount not fully distributed."

**Server action:** The validation script sends the error key ERR\_DISTR to the AP Detail Valid custom property.

To include or distribute additional charge fields, complete the following steps, as needed.

#### Client-side validation

• In AP\_Skin.xml, under the <po> node, under the <distribution total> node, set the desired additional charge element to true. The default for every node is false.

For example, to have AP Invoice eForm include the Sales Tax and Freight values in the Invoice Lines amount validated against Invoice Total, configure the following elements.

```
<po>>
   <polines>true</polines>
   <change_remitto>true</change_remitto>
   <distributiontotal>
            <include_freight>true</include_freight>
            <include_tax>true</include_tax>
            <include_misc>false</include_misc>
            <include_addl_amt1>false</include_addl_amt1>
            <include_addl_amt2>false</include_addl_amt2>
            <include_addl_amt3>false</include_addl_amt3>
            <include_addl_amt4>false</include_addl_amt4>
            <include_addl_amt5>false</include_addl_amt5>
            <include_addl_amt6>false</include_addl_amt6>
            <include_addl_amt7>false</include_addl_amt7>
            <include_addl_amt8>false</include_addl_amt8>
   </distributiontotal>
</po>
```

#### Client-side distribution

• In AP\_Skin.xml, under the <fields> node, in the <header> element for the additional charges you want to distribute, set the distributable attributes to "true".

For example, to distribute the Tax Amount field, but not the Freight Amount field, configure the elements as shown in this example.

```
<header label="lblTaxAmount" field="txtTaxAmount" visible="true" align="right"
maxlength="13" distributable="true" captionkey="LBL_SALES_TAX"/>
<header label="lblFreightAmount" field="txtFreightAmount" visible="true"
align="right" maxlength="13" distributable="false" captionkey="LBL_FREIGHT"/>
```

#### Server-side validation

- In AP\_Validate\_Server.xml, enable the <po\_distribution\_validation> node.
- Under the <po\_distribution\_validation> node, for each additional amount you included in AP\_Skin.xml, enable the corresponding <include\_> element.

#### **Example**



## Configure Invoice Total validation in non-PO invoices or credit memos

For non-PO invoices and credit memos, AP Invoice eForm validates the header-level Invoice Total amount against the line-level GL Distributions amount total. To customize this validation, you can choose whether to include Sales Tax, Freight, Misc, and the other eight available additional charges in the GL Distributions amount total.

In other words, if you include additional amounts, the eForm verifies that:

```
(Invoice Total) = (GL Distributions) + (included additional charges)
```

**Client action:** The eForm flags the **To Be Distributed** amounts with red boxes. It displays the error message "Invoice Amount not fully distributed" or "Distribution percentages do not total to 100%."

**Server action:** The validation script sends the error key ERR\_DISTR or ERR\_PCT\_DISTR to the AP Detail Valid custom property.

To include any additional charges, complete the following steps.

#### Client-side validation

• In **AP\_Skin.xml**, under the <nonpo> Or <credit> node, under the <distribution total> node, set the desired additional charge element to true. The default for every node is false.

For example, to have AP Invoice eForm include the Sales Tax and Freight values in the GL Distributions amount validated against the Invoice Total amount, configure the following elements.

#### Server-side validation

In AP\_Validate\_Server.xml, enable the <nonpo\_distribution\_validation> Or <credit\_distribution\_validation> node, as needed.



2. Under the <nonpo\_distribution\_validation> or credit node, for each additional amount you included in AP\_Skin.xml, enable the corresponding <include\_> element. For example,

## PO/invoice currency validation

If you use the eForm with Intelligent Capture data extraction, the PO/invoice currency validation verifies the PO currency matches the invoice currency. This validation is not configurable. If the PO virtual table includes values in the currency column, then the validation runs. The currency list is disabled in invoice documents. Users should correct a mismatch on the PO level.

**Client action:** The eForm displays the error message "The purchase order currency does not match the invoice currency."

**Server action:** The validation script sends the error key ERR\_CURR\_MATCH to the AP Header Valid custom property.

#### VAT validation

For more information on enabling VAT validation, refer to the Enable VAT amount validation section.

## Intelligent Capture Connector value-mapping validation

#### Server-side validation

You can configure AP\_Validate\_Server.xml to validate values mapped with the Intelligent Capture Connector. For more information on the connector, refer to the *Perceptive Intelligent Capture Connector Installation Guide*, available in the Customer Portal.

To enable validation for values from the Intelligent Capture Connector, complete the following steps.

- 1. In AP\_Validate\_Server.xml, enable <run\_ic\_maping>.
- 2. Refer to the following sections and enable or configure validation settings as needed.

## Lookup validation

If you enable lookups, AP\_Validate\_Server.xml compares the data captured from the invoice with the data extracted using lookup from the configured data source for AP Invoice eForm.

#### **Example**



```
<lookup maxresult="125" name="po"/>
</lookups>
```

The validation checks for data that is missing or does not match. Any values that Intelligent Capture is unable to capture from the invoice are automatically completed by the lookup data. Any data that does not match is either replaced or an error message displays.

Maxresult is the maximum number of results you want to include in the returned results. Name is the name of the reference.

#### Date mask

This element specifies the default date format for the Invoice Date entry. Valid formats are MMDDYYYY, DDMMYYYY, and YYYYMMDD. Slashes are optional. If not specified, the default format is MMDDYYYY.

#### **Example**

<datemask>MMDDYYYY</datemask>

#### PO line items

This element allows you to enable and disable Intelligent Capture PO line item processing. If set to FALSE, the data source provides the data to populate the AP Invoice eForm line item section. If set to TRUE, Intelligent Capture provides the data.

The default is FALSE.

#### **Example**

<polineitemprocessing>false</polineitemprocessing>

For more information about virtual tables, refer to the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*.

## Replace vendor number

If a mismatch in vendor numbers is found during validation, you can configure AP\_Validate\_Server.xml to replace the vendor number captured from the invoice with the vendor number extracted using lookup. To enable vendor number replacement, set <forcevendormatch> to true.

#### Example

<forcevendormatch>true</forcevendormatch>

If set to false, the vendor number captured from the invoice is not replaced.

#### Location code

Use this setting to define the source of the Location code, which is provided at scan time. Intelligent Capture does not provide location code. If using a location code, this value must pass to the Intelligent Capture Connector using an index value that the capture profile sets at scan time. By default, Intelligent Capture uses the ImageNow document key F4 (field4). ImageNow 6.6.x and higher to enable the use of a custom property at capture time. The connector references this value to set the related AP Invoice eForm XML data.

#### **Example**

<locationcode sourcetype="index" sourcename="f4"/>

Valid values for sourcetype are index or customproperty.



## Configure separator for multiple PO

The Intelligent Capture Connector supports extraction of multiple PO numbers and displays them as a concatenated list with a delimiter. Specify the delimiter under the concatenated list with a delimiter.

#### **Example**

<poseparator>^</poseparator>

A; (semi-colon) is the default delimiter.

## Configure caching

Caching enables quick retrival of previously searched data in AP Invoice eForm. You can schedule caching by running the AP\_Maintenance.js file at regular intervals using the Windows Scheduler or by configuring caching in the AP\_Config.xml file. If you choose to cache data by running the scheduler, you should either disable caching in the AP\_Config.xml file or provide a cache refresh period longer than the period specified in the Windows Scheduler.

The AP\_GetCompanies.js script gathers caching data from the virtual tables or the associated ERP application. For additional information on the caching functionality, refer to the AP\_GetCompanies.js description in the table under \inserver6\script.

To configure caching, complete the following steps.

- 1. Navigate to [Drive:]\inserver6\etc\ap and open AP\_Config.xml file.
- 2. Under the <Scripts> tag, in <AP\_GetCompanies>, provide a value to the CacheDuration parameter to configure the cache refresh duration. You can provide any of the following values.
  - Type 0 if you want the cache to refresh continuously.
  - Type a positive value to specify the duration in minutes after which you want the cache to refresh.
  - Type a negative value or special character if you do not want to refresh the cache.

## Configure value added tax within the eForm

Incorporating value added tax (VAT) into your AP Invoice eForm solution allows your users to process and validate invoices and credit memos that include VAT amounts, codes and jurisdictions. You can enable VAT amounts to calculate automatically, per item at the line level, based on the VAT jurisdiction and VAT code combination.

To use VAT with AP Invoice eForm, review and complete the following procedures.

#### Create and enable the VAT codes

For both purchase order and non-purchase order invoices, AP Invoice eForm provides fields for assigning VAT codes for each line item. The VAT code consists of two components: the jurisdiction and the VAT rate code. To configure AP Invoice eForm to accept line-level VAT code assignment, complete the following steps.



## Create and update the virtual tables

To create VAT-specific tables and update your existing virtual tables to include the basic VAT-specific columns, complete the following steps. These steps refer to virtual tables, which we detail in the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*.

- 1. Verify or create the VAT Code virtual table with Jurisdiction, VATCode and VATRate columns.
- 2. Verify or update the **Business Unit** virtual table with a **Jurisdiction** column.
- Optional. Verify or update the Purchase Order Lines virtual table with Jurisdiction and VATCode columns.

#### Enable the columns

To enable the VAT-specific columns you created in the previous section, complete the following step.

• In AP\_VirtualTable\_Updater.xml, for each <recordstructure> and <column> element your solution requires, set the enabled attribute to "true". The following example illustrates enabling the VAT Code table and its columns.

### Enable VAT at the line level

To enable the global use of VAT in the eForm, at the line level, configure AP\_Skin.xml. Complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. To display the VAT code at the line level, for each of the following elements, set the visible attribute to "true".
  - <poline label="lblPOLVATCode" field="cboPOLVATCode"/>
  - <glline label="lblGLVATCode" field="cboGLVATCode"/>
- 3. Optional. To allow users to view the Jurisdiction code at the line level, in the following elements, set the visible attribute to "true".
  - <poline label="lbIPOLVATJurisdiction" field="txtPOLVATJurisdiction"/>
  - <glline label="lblGLVATJurisdiction" field="txtGLVATJurisdiction"/>
- 4. Optional. To allow users to view the VAT amount at the line level, in the following elements, set the visible attribute to "true".
  - <poline label="lbIPOLVATAmount" field="txtPOLVATAmount"/>
  - <glline label="lblGLVATAmount" field="txtGLVATAmount"/>
- 5. Save and close AP\_Skin.xml.



## Enable the VAT amount summary

For each distinct VAT code referenced on an invoice, AP Invoice eForm can summarize the total VAT amounts. In the eForm user interface, the VAT Summary section provides a simple, compiled total of the VAT Base and VAT Amount for each VAT Code.

To enable the VAT amount summary logic, and optionally display the VAT Summary section in the eForm, complete the following steps.

**Note** To enable VAT sum validation, with or without displaying the VAT amount summary in the eForm, refer to the following **Enable VAT amount validation** section.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. To enable VAT summation logic in the eForm, under <vatsummary>, Set <enable> to true.
- 3. Optional. To display the VAT Summary section in AP Invoice eForm, set <showsection> to true.
- 4. Save and close AP\_Skin.xml.

## **Enable VAT amount validation**

To enable validation of the line-level VAT Amount sums against the header-level VAT Total amount, complete the following procedures.

## Update the Currency virtual table

Due to rounding rate percentages, the sum total of the line-level VAT Amounts and the header-level VAT Total often contain a degree of variation. To specify an acceptable level of variation for your solution, update the Currency Codes virtual table. For more information, in the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*, refer to the "Currency" section.

Complete the following step.

Update the Currency virtual table with VATVarianceAmount or VATVariancePercent columns.

**Note** If neither column exists, AP Invoice eForm validation expects an exact match between the line-level VAT Amounts and the header-level VAT Total. If you configure both columns, AP Invoice eForm uses the VATVariancePercent column.

#### Enable the columns

To enable the VATVarianceAmount and VATVariancePercent columns in the Currency Codes table, configure AP\_VirtualTable\_Updater.xml. Complete the following step.

• In AP\_VirtualTable\_Updater.xml, in the <recordstructure recordtype="Z\_APW\_APCurrency"> element, set the enabled attribute to "true" for the following columns.

```
<column customprop="Z_APW VAT Variance Amount" enabled="true"/>
<column customprop="Z_APW VAT Variance Percent" enabled="true"/>
```

#### Enable VAT summation and validation

To enable VAT summation and validation in the eForm user interface, configure AP\_Skin.xml. Complete the following steps.

1. Navigate to [drive:]\inserver6\etc\ap and open AP Skin.xml with a text editor.



- 2. To convert the Tax Amount label to a VAT Total label in the eForm header, in the <header label="lblTaxAmount"> element, set the captionkey attribute to LBL\_VAT\_TOTAL.
- 3. To enable VAT summation in the eForm, under <vatsummary>, Set <enable> to true.
- 4. To enable VAT validation in the eForm, under <vatsummary>, set <validatesummary> to true.
- Save and close AP\_Skin.xml.

## Configure server-side VAT validation

With server-side VAT validation, you can compare the header-level VAT Total field against the line-level VAT Amount fields in a workflow validation queue. Complete the following steps.

**Note** Server-side validation allows you to validate VAT amounts for each document processed, without requiring the user to complete the validation step in the eForm user interface.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Validate\_Server.xml with a text editor.
- 2. In the <vatsummary\_validation> element, set the enabled attribute to "true".
- 3. Save and close AP\_Validate\_Server.xml.
- 4. Optional. In Workflow Designer, create a routing rule to route back for VAT validation-specific errors, using the error code ERR\_VAT\_TOTAL\_MATCH for the Value. For more information on routing rules, refer to the Create a rule to route back for header error conditions section.

## Associate the vendor VAT registration numbers

To associate vendor VAT registration numbers (VAT IDs) with vendors and enable the Vendor VAT ID field, complete the following procedures.

## Verify or create the VAT Registration Number (VAT ID) Vendor and Vendor virtual tables

To create VAT-specific tables and update your existing virtual tables to include VAT-required columns, refer to the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide* and complete the following steps.

- 1. Create the **VAT\_ID\_VENDOR** virtual table and all required columns. Refer to the "VAT Registration Number (VAT ID) Vendor" section.
- 2. Optional. To create a default VAT ID for each vendor, update the **VENDOR** virtual table with a VAT ID column. Refer to the "Vendor" section.

**Note** The user can modify the default value in the eForm by manually keying a new value, or by selecting a value from the VAT Registration Number virtual table using the search feature.

## Enable the Vendor VAT ID field

To enable the Vendor VAT ID header-level field, configure AP Skin.xml. Complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. For the following element, set the visible attribute to true.
  - <header label="lblVendorVATID" field="txtVendorVATID"/>
- 3. Save and close AP\_Skin.xml.



## Associate the sold-to VAT Registration Numbers

To associate sold-to VAT registration numbers (VAT IDs) with business units and enable the Sold To VAT ID field, complete the following procedures.

## Verify or create the VAT Registration Number (VAT ID) Business Unit and Vendor virtual tables

To create VAT-specific tables and update your existing virtual tables to include VAT-required columns, refer to the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide* and complete the following steps.

- 1. Create the VAT\_ID\_BUS\_UNIT virtual table with the required BusUnit and VAT ID columns. Refer to the "VAT Registration Number (VAT ID) Business Unit" section.
- Optional. To create a default VAT ID value for each business unit, update the BUS\_UNIT virtual table with a VAT ID column. Refer to the "Business Unit" section.

**Note** The user can modify the default value in the eForm by manually keying a new value, or by selecting a value from the VAT Registration Number virtual table using the search feature.

#### Enable VAT at the header level

In the AP\_Skin.xml file, you can enable the global use of VAT in your eForm, at the header level.

- Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. For the following element, set the visible attribute to true.
  - <header label="lblSoldToVATID" field="txtSoldToVATID"/>
- Save and close AP\_Skin.xml.

## Enable the VAT Compliance check box

You can customize the AP Invoice eForm to include a check box that signifies that the invoice follows all rules and regulations around the handling of invoices with VAT. To enable this feature, complete the following steps.

- Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. For the following element, set the visible attribute to "true".
  - <header label="lblVATCompliant" field="chkVATCompliant"/>

**Note** You can set the required attribute to true, however the user must still select the check box in the eForm.

3. Save and close AP\_Skin.xml.

## Enable the Automatic Tax Calculation check box

With SAP integrations, the Automatic Tax Calculation check box allows SAP to calculate an invoice tax amount rather than using any value provided in the eForm. When selected, SAP calculates the invoice tax separately with its own internal tables of external tax engine.

If you enable the check box in AP Invoice eForm, the eForm selects the check box by default.



Complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. For the following element, set the visible attribute to "true".
  - <header label="lblAutomaticTaxCalc" field="chkAutomaticTaxCalc"/>
- 3. Save and close AP Skin.xml.
- Start INTool by accessing a command prompt and changing directories to \inserver6\bin or \inserver6\bin64.
- 5. To commit the changes, enter the following command to run the **AP\_Maintenance.js** script. intool --cmd run-iscript --file AP\_Maintenance.js

## Associate AP Invoice eForm with other ERP application

You can configure AP Invoice eForm to connect with other ERP applications, for example SAP. To enable this you must update the configuration in the AP\_Config.xml file. By default, the virtual table is configured with the eForm.

## Configure AP\_Config.xml file

To configure AP\_Config.xml to associate AP Invoice eForm with other ERP applications, complete the following steps.

- 1. In the AP Config.xml file, under <configurations>, add the <Connector> tag.
- 2. Type the value associated to the ERP that is included in the [drive:]\inserver\script\apef\connectors folder. For example, to connect AP Invoice eForm to SAP, type SAPConnector to the <Connector> tag, as the SAPConnector.is file is available in this folder.

## Configure real-time posting in SAP

If your solution uses Perceptive Connect Runtime or Perceptive Connect with Perceptive Connector for SAP Financial Accounting, you can configure AP Invoice eForm to create, park, post, and cancel invoices and Credit Memos directly in SAP.

The SAP connector allows you to make data channels directly between the eForm and SAP.

To begin, create Integration automated system queues (ASQs) in your eForm workflow and then configure channels with the connector. To configure real-time posting in SAP, complete the following steps.

- 1. In the AP Invoice eForm workflow, create the following Integration ASQ to create, park, post, and cancel invoices in SAP. For additional information on how to create an Integration ASQ, refer to the *Perceptive Connector for SAP Financials Installation and Setup Guide*.
  - To create invoices, create three Integration ASQs, one for each of the following segments.
    - Integration ASQ for PO. To accommodate PO-related invoices to be created in SAP and route them to designated queues
    - Integration ASQ for non-PO. To accommodate non-PO-related invoices to be created in SAP and route them to designated queues



- Integration ASQ for Credit Memo. To accommodate Credit Memos to be created in SAP and route them to designated queues
- To park invoices, create three Integration ASQs, one for each of the following segments.
  - Integration ASQ for PO. To accommodate PO-related invoices to be parked in SAP and route them to designated queues
  - Integration ASQ for non-PO. To accommodate non-PO-related invoices to be parked in SAP and route them to designated queues
  - Integration ASQ for Credit Memo. To accommodate Credit Memos to be parked in SAP and route them to designated queues
- To post previously parked invoices in SAP for PO, non-PO, and Credit Memo, create one Integration ASQ.
- To cancel invoices in SAP for PO, non-PO, and Credit Memo, create one Integration ASQ.
- 2. Open **Perceptive Connect Runtime Web Console**, create a channel for each Integration ASQ, and specify a name for the channel. For example, to configure a channel to create PO invoices, name the channel as APEF\_CreateInvoice\_PO. For additional information on how to create a channel, refer to the *Perceptive Connector for SAP Financials Installation and Setup Guide*.

Note The steps to create a channel are based on Perceptive Connect Runtime version 1.0.

- 3. In **Perceptive Connect Runtime Web Console**, to configure a channel, complete the following steps to map the parameters to each Integration ASQ, as required.
  - 1. Navigate to the [drive]\{path}\Perceptive AP Invoice eForm 12.1.x for SAP\SAPMappingfiles directory.

**Note** In the directory path mentioned above, replace x with the current version number. For example, if the current version is 12.1.0, the directory path is [drive]\{path}\Perceptive AP Invoice eForm 12.1.0 for SAP\SAPMappingfiles.

- 2. Open APEF\_CreateInvoice\_PO.xml and copy the contents to the wizard box in the Configure the channel page.
- Click Save.

**Note** The XML map associates the invoice number and fiscal year with Field1 and Field2, respectively, by default. To associate them to a different field or custom property, in the respective XML configuration, change the value of the <in:key> element appropriately under <outputs> tag.

For additional information on how to create Integration ASQ and map the Integration ASQ using Perceptive Connect Runtime Web Console, refer to the *Create an Integration ASQ* and *Create and configure a channel* sections of the *Perceptive Connector for SAP Financials Installation and Setup Guide*.

## Configure real-time lookups from SAP

You can configure the AP Invoice eForm to perform live lookups from SAP. This requires back-end integration of AP Invoice eForm with SAP Financials connector using ImageNow Envoy service. After the configuration is complete, SAP Financials connector receives the eForm data and returns the lookup result. To configure the AP Invoice eForm, complete the following steps.

- 1. In ImageNow Management Console, in the left pane, click Envoy Services and then click New.
- In the Envoy Services dialog box, in the Definition page, set the following attributes.



- 1. In the Name box, type ErpCommonOperationsService to identify the remote service.
- 2. Optional. In the **Description** box, type a description.
- 3. In the **URI** box, type the URI for your connector server in the format <a href="http://<Perceptive Connect Runtime server">http://<Perceptive Connect Runtime server</a>:<port>/ws/ErpSyncOperations?wsdl.
- 4. In the Authentication list, select None.
- Optional. If you want to enable interceptor logging for the remote service, select the Enable interceptor logging check box.
- 3. Click Next.
- In the Operations page, in the ErpCommonOperationsService operation, select all the check boxes.
- 5. Click Finish.

## Configure eForm for data massaging to SAP

AP Invoice eForm supports data massaging to SAP for CreateInvoice and ParkInvoice synchronous operations. To enable data massaging in AP Invoice eForm, complete the following steps.

- 1. Create two queues, one for Create Invoice and the other for Park Invoice operation.
- 2. Configure the following settings.
  - Apply the AP\_SAP\_CreateInvoice.js as an inbound action to the queue for Create Invoice operation.
  - Apply the AP\_SAP\_ParkInvoice.js as an inbound action to the queue for Park Invoice operation.
  - From the [drive:]\inserver6\script directory, open the AP\_Custom\_SAP\_Invoice\_Operation.js
    file, and under customInvoiceDataMassager function, include you custom code for data
    massaging.

## Customize document key mapping in ImageNow

After you successfully create or park the document, SAP generates an InvoiceDocNumber and FiscalYear. By default, the InvoiceDocNumber and FiscalYear are mapped to field1 and field2 document key, respectively. You can associate different document keys by updating the AP SAP InvoiceOperations.xml file that is available in the [drive:]\inserver6\etc directory.

The following code block shows the XML template of AP\_SAP\_InvoiceOperations.xml file.



## Configure goods receipts within the eForm for SAP

With AP Invoice eForm for SAP, you can enable goods receipts. Goods receipts allow your users to track the inbound movement of items, such as inventory, without requiring information such as payment or authorization. Each goods receipt includes a document ID, year, and item. The following section describes how to enable goods receipts with AP Invoice eForm for SAP.

## Create and enable the goods receipt document

For PO invoices, you can configure the eForm to assign goods receipt details for each line item. The goods receipt details contain the ID, year, and item. To configure AP Invoice eForm to accept line-level goods receipt details, complete the following tasks.

## Update the virtual table

To create GR details in AP Invoice eForm, add three columns to the Purchase Order Line table. These columns provide a reference to the goods receipt. Complete the following step.

Update the PO Line virtual table with GRDocument, GRFiscalYear, and GRItem columns. For more
information, in the Perceptive AP Invoice eForm Virtual Tables Configuration Guide refer to the
"Purchase Order" section.

## Update AP\_VirtualTable\_Updater.xml

To enable the columns you created in the previous step, complete the following step.

• In AP\_VirtualTable\_Updater.xml, for each <recordstructure> and <column> element your solution requires, set the enabled attribute to "true". The following example illustrates how you enable the columns in the goods receipt table.

```
<recordstructure recordtype="PO_LINE" table="Z_APW_APPOLine" enabled="false">
   <column customprop="Z_APW Business Unit ID" enabled="true"/>
   <column customprop="Z_APW PO Number" enabled="true"/>
   <column customprop="Z_APW PO Line Number" enabled="true"/>
   <column customprop="Z_APW PO Item Number" enabled="true"/>
   <column customprop="Z_APW PO Item Description" enabled="true"/>
   <column customprop="Z APW PO Item Ouantity" enabled="true"/>
   <column customprop="Z_APW PO Item UOM" enabled="true"/>
   <column customprop="Z_APW PO Item Unit Price" enabled="true"/>
   <column customprop="Z_APW PO Item Extended Price" enabled="true"/>
   <column customprop="Z_APW PO Line Date Closed" enabled="false" format=""/>
   <column customprop="Z_APW PO Line Taxable" enabled="false"/>
   <column customprop="Z_APW VAT Jurisdiction" enabled="false"/>
   <column customprop="Z APW VAT Code" enabled="false"/>
   <column customprop="Z_APW PO Item GR Document" enabled="true"/>
   <column customprop="Z_APW PO Item GR Fiscal Year" enabled="true"/>
   <column customprop="Z_APW PO Item GR Item" enabled="true"/>
```



</recordstructure>

## Configure AP\_Skin.xml

In the AP\_Skin.xml file, you can enable the global use of VAT in the eForm at the line level.

- 1. Navigate to the [drive:]\inserver6\etc\ap directory and open AP\_Skin.xml with a text editor.
- 2. To display goods receipt details at a line level, for each element, set the visible attribute to "true", and modify the GRFiscalYear attribute to "true" if needed.
  - <poline label="lblGRDocument" field="txtGRDocument" visible="true">
  - <poline label="lblGRFiscalYear" field="txtGRFiscalYear" visible="false">
  - <poline label="lblGRItem" field="txtGRItem" visible="true">
- 3. Save and close AP Skin.xml.
- Start INTool by accessing a command prompt and changing directories to \inserver6\bin or \inserver6\bin64.
- 5. Enter the following command to run the **AP\_Maintenance.js** script and commit the changes.

```
intool --cmd run-iscript --file AP_Maintenance.js
```

## Configure GL distribution on PO invoices

You can configure the AP Invoice eForm to distribute unspecified invoice charges. Based on your configuration, you can either add a separate GL Distribution section to include all additional costs that are not associated with header amounts or you can associate each additional cost with a header amount and Add on Cost (AOC) code. The first option works best for applications like SAP. The second option supports applications like Lawson.

For more information about how to associate additional costs with header amounts and AOC codes, refer to the **Configure add on cost (AOC) on PO invoices** section.

## Configure GL distribution of additional costs not associated to header amount

For PO based invoices in ERP applications that do not support header-level distribution logic, you can add GL Lines without making GL Lines distributable. To implement this behavior, complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. Under <po> tag, set the <gllines> tag to true.
- 3. In the line <header label="lblPOInvoiceGLTotalAmt" field="txtPOInvoiceGLTotalAmt" distributable="true" captionkey="LBL\_PO\_INV\_GL\_TOTAL\_AMT"/>, set the <distributable> tag to true.

#### **Notes**

• If the <gllines> tag is set to true, it is recommended that all elements under the <distributiontotal> tag is set to false. However, if under the <distributiontotal> tag value of the elements is set to true, it does not affect the logic or functioning of GL distribution.



• In the eForm that is configured for SAP, the <gllines> tag is set to true and values of all elements under <distributiontotal> tag is set to false by default.

## Configure add on cost (AOC) on PO invoices

The add on cost (AOC) feature allows you to configure the way you categorize and distribute Sales Tax, Freight, Misc. Charge, and other additional amount charges. These charges appear on PO invoices, but are not included in the purchase order. For Lawson users, this configuration also allows you to export AOC codes with distributed amounts, including GL Code or GL Account information, to the MA540 file.

For example, you could assign a default AOC code and accompanying description to your header-level "Misc. Charge" field, such as "HA – Handling." During PO invoice processing, your user keys an amount into the "Misc. Charge" field. The GL Distributions section automatically populates the default AOC code, description, distribution amount, and any other default GL information you prefer, such as Account number.

At that point, your user could retain the default AOC code for the Misc. Charge value, or select an alternate code from the AOC list. The user can insert and modify additional distribution lines under the AOC code. For example, the user could split a handling charge across multiple departments, cost centers, or accounting units. The AOC feature supports the ability to incorporate both GL Code and GL Account fields in your GL Distributions section.

To configure AOC codes and PO GL distributed-line exports for Lawson, refer to the following sections.

#### Create and enable the AOC codes

AP Invoice eForm provides the ability to assign an AOC code for each PO GL header-level field amount. In the eForm, the AOC list populates a concatenated AOC code and optional description. The list can import these values from the AOC GL Code table, the AOC GL Account table, or both.

To configure AP Invoice eForm with AOC functionality, complete the following tasks.

#### Create the AOC virtual tables

To use AOC, create an AOC GL Code table, an AOC GL Account table, or both, depending on your current usage of the GL Code and GL Account virtual tables. If you use both AOC tables, the AOC list under GL Distributions contains each unique AOC Code and its description. If you use both GL Code and GL Account fields, use matching sets of AOC codes and optional descriptions.

The eForm completes field-level validation with the GL Code and GL Account tables. To pass validation, every code or account field used in the AOC tables must also exist in the corresponding GL Code or GL Account table.

Complete the following steps, as necessary for your solution.

- Create the AOC GL Account virtual table with Table Name, Active, AOC Code, and any optional
  columns. For more information, in the Perceptive AP Invoice eForm Virtual Tables Configuration
  Guide, refer to the "AOC GL Account" section.
- Create the AOC GL Code virtual table with Table Name, Active, and AOC Code, and any optional columns. For more information, in the Perceptive AP Invoice eForm Virtual Tables Configuration Guide, refer to the "AOC GL Code" section.



## Update AP\_VirtualTable\_Updater.xml

To enable the import of the AOC-specific data you created in the previous section, complete the following step.

• In AP\_VirtualTable\_Updater.xml, for each <recordstructure> and <column> element your solution requires, set the enabled attribute to "true". The following example illustrates how to enable the AOC GL Account virtual table and select columns.

## Enable GL distribution with AOC codes in AP\_Skin.xml

In the AP\_Skin.xml file, to enable the distribution of the header-level additional charges and assign an optional default AOC code to each, complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. To enable the AOC list for the GL Distributable fields in PO invoices, under <fields>, in the <addl entries label="lblAOCCode"> element, set the visible attribute to "true".
- 3. To configure distribution, complete the following steps.
  - 1. Under <fields>, in the <header> element, such as <header label=lblFreightAmount>, set the distributable attribute to "true".
  - Optional. Set the aoc attribute with a default AOC code from either the AOC GL Code or AOC GL Account virtual table. For example:

```
<header label="lblFreightAmount" field="txtFreightAmount" visible="true"
align="right" maxlength="13" distributable="true" captionkey="LBL_FREIGHT"
aoc="FR"/>
```

#### **Notes**

- If the GL Distributions section is visible, the optional columns in the AOC GL Code and AOC GL Account tables, such as business unit ID, automatically populate the fields.
- Users have the ability to select any AOC code from the list while processing the PO invoice.
   Select another AOC code to update the values populated in each GL Code or GL Account field. The eForm completes validation using the GL Code and GL Account tables.
- Save and close AP\_Skin.xml.
- 5. To commit the AP\_Skin.xml updates, run the AP\_Maintenance.js script.



## Enable multi-line GL distribution exports for Lawson

Lawson customers can export each line-item amount in the GL Distributions section as a separate line to the MA540 file. To enable the export of distributed amounts, complete the following tasks.

## Enable PO GL distributions in AP\_Config.xml

To enable the export of PO GL distributed lines to Lawson as individual, line-item amounts, configure the AP Config.xml file. Complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Config.xml with a text editor.
- 2. Under <ap\_Invoice\_Export>, Set <Misc\_Line> tO true.
  - Note For all nodes under <ExportSections>, the true/false settings are case-sensitive.
- 3. Save and close AP\_Config.xml.

## Configure the miscellaneous line export in AP\_Export.xml

Configure your Lawson version of the AP\_Export.xml file to export distributed amounts and AOC codes. With this functionality, each PO GL distributed amount exports on its own line for the MA540 file. You configure the values that accompany the distributed amount. For example, company number, vendor ID, invoice number, AOC code, and associated GL codes.

#### **Notes**

- The order of the <field> elements determines the column order in the CSV file.
- The sequence attribute is for your reference only: it does not control the column order.
- You may export both header-level amounts, with the <misc> node, and distributed amounts, with the <misc\_line> node.

Complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP Export.xml with a text editor.
- 2. Under <misc\_line>, to configure a <field> element for every column you require in your CSV file, complete any of the following steps, as needed.
  - To configure a blank column, in the corresponding <field> element, do not assign a value to the worksheet or constant attributes. Verify the name attribute is unique within the <misc\_line> node.
  - To create a column with a constant value, in a <field> element, create or modify the attribute constant="variable". For example, you may configure the MA-REC-TYPE column to carry the value **M**, to denote a Lawson M-line.

```
<field name="MA-REC-TYPE" sequence="1" type="alpha" length="1" constant="M"/>
```

- To create a column that contains the **Workflow Item Creation Date**, set the **constant** attribute "{{scandate}}", and set the **length** attribute to "10". The date exports in MM/DD/YYYY format.
- To create a column with incrementing integers, set the constant attribute to "{{sequence}}", and set the length attribute to a minimum of "2", such as for integers 1 to 99. The sequence iterates for each exported line in the <misc\_line> node, and resets for each PO Invoice exported concurrently.



To create a column that maps to an eForm value, set the worksheet attribute to the eForm field.
 For a list of available worksheet attributes, refer to the "Worksheet attribute in AP\_Export.xml" column in the User interface labels table.

```
<field name="MA-VENDOR" sequence="3" type="alpha" length="9"
worksheet="VendorID"/>
```

3. Save and close AP\_Export.xml.

# Display or hide Purchase Order Lines in Invoice Details section

You can display or hide the PO Lines in the AP Invoice eForm by configuring the AP\_Skin.xml. If you enable PO line matching, you can view PO lines next to related Invoice lines. If you disable PO line matching, searching a PO number displays all open PO lines and marks them as matched. You can manually unmatch them, if required. To display the PO lines, complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Skin.xml with a text editor.
- 2. Under <po> tag, set the linematching> tag value to true. To disable PO Line matching set this value to false.
- 3. Run AP\_Maintenance.js

#### Additional fields in Purchase Order Lines

You can display the following two boxes under Purchase Order Lines that are not available under Invoice Lines. For SAP, these fields are visible by default.

- Available Quantity. This box displays the quantity available for invoicing, that is, the difference
  between total PO quantity and invoiced quantity. The Available Quantity is calculated from the PO
  history in SAP.
- **Available Amount**. This box displays the amount available for invoicing. The Available Amount is calculated by applying the following formula.
  - Quantity x Unit Price/Price Unit

# Configure AP Invoice eForm for a global environment

By default, AP Invoice eForm uses the language of the locale specified at the operating system level of each ImageNow Client computer. For more information on ImageNow and planning for a global environment, refer to the *Language Pack Getting Started Guide*, available on the Perceptive Software website, in the Customer Portal on the Product Documentation tab.

# Configure language, date, and currency settings

To override your Windows regional settings, and set the language so that all users see the same language, complete the following steps.

- 1. Navigate to [drive:]\inserver6\etc\ap and open AP Skin.xml with a text editor.
  - Note If working in an active-active server environment, navigate to the [shared path]\inserver6\etc\ap directory.
- 2. For <defaultlanguage>, complete one of the following substeps.



- To set a generic default language in AP Invoice eForm, use one of these two-character language codes.
  - For Dutch, type **nl**.
  - For English, type en.
  - For French, type fr.
  - For German, type de.
  - For Portuguese, type pt.
  - For Spanish, type es.

In the example below sets the language to English.

<defaultlanguage>en</defaultlanguage>

- To set a default language based on a specific country, and to display the date, number, percentage and currency format according to that locale, use one of these four-character language codes.
  - Dutch
    - For Belgium, type nI-BE.
    - For Netherlands, type nI-NL.
  - English
    - For Australia, type en-AU.
    - For Canada, type en-CA.
    - For Great Britain, type en-GB.
    - For India, type en-IN.
    - For the United States, type en-US.
  - French
    - For Belgium, type fr-BE.
    - For France, type fr-FR.
    - For Switzerland, type fr-CH.
  - German
    - For Germany, type de-DE.
    - For Switzerland, type de-CH.
  - Portuguese
    - For Brazil, type pt-BR.
  - Spanish
    - For Argentina, type es-AR.
    - For Mexico, type es-MX.
    - For Spain, type es-ES.



 For Spanish-Argentina, type es-AR, for Spanish-Mexico, type es-MX or for Spanish-Spain, type es-ES.

In the example below, the language is set to French, and the country is set to Belgium.

<defaultlanguage>fr-BE</defaultlanguage>

**Note** For more information on supported languages, with the associated language and country codes, refer to **Supported languages**, **countries and currencies**.

3. Save and close AP Skin.xml.

#### **Custom configuration**

To make a culture-specific customization to your AP Invoice eForm, complete the following steps.

1. Navigate to [drive:]\inserver6\etc\ap and open AP\_Custom\_Cultures.xml with a text editor.

**Note** If working in an active-active server environment, navigate to the **[shared** path]\inserver6\etc\ap directory.

- 2. For the <culture> element, configure the following attributes.
  - For the name attribute, type a unique name to identify the specific language and country for which you are customizing the form.
  - For the base attribute, type the language code or the language code and country code pair from which culture inherits the properties. For example, en or en-US.

**Note** For more information on language and country codes, refer to **Supported languages**, countries and currencies.

- For the language attribute, type the language code, such as en.
- 3. For the <numberFormat> element, configure the following attributes.
  - For groupseparator, type the character you want to use to separate number groupings, such as comma (,), period (.), space (ns), or apostrophe (').
  - For decimalseparator, type the character you want to use to separate the integer part of a number and the decimal part, such as comma (,) or period (.).
  - For groupsizes, type a value for the number grouping size, such as 3,2 grouping.
- 4. For the <calendar> element, configure the following attributes.
  - For separator, type the character you want to use to separate the day, month, and year values of the date string, such as forward slash (/), hyphen (-), or period(.).
- 5. For the <patterns> element, configure the following attributes.
  - For shortingut, type the short date format, without separators, that you want to use to format your dates, such as MMddyy.
  - For longinput, type the long date format, without separators, that you want to use to format your dates, such as MMddyyyy.
  - For display, type the short date format, with separators, that you want to use to display your dates, such as MM/dd/yyyy.
- 6. For the <messages> element, configure the following attributes.



- For key, type the predefined property or custom property you want to configure.
- For caption, type a literal text replacement for the property.

**Note** For more information on these attributes, refer to **Appendix B: User interface labels, tooltips, and messages**.

- 7. For each culture-specific region that you want to customize, repeat the previous steps.
- 8. Save and close AP\_Custom\_Cultures.xml.

### Supported languages, countries and currencies

AP Invoice eForm supports the following languages, country-specific languages and currencies:

Supported Language	Language Code	Supported County	Country Code	Supported Currency	Currency Code
Dutch	nl	Belgium	BE	Euro	EUR
		Netherlands	NL	Euro	
English	en	Australia	AU	Australian dollar	AUD
		Canada	CA	Canadian dollar	CAD
		Great Britain	GB	British pound	GBP
English (en) is		India	IN	Indian rupee	INR
the default language.		Ireland	IE	Euro	EUR
		South Africa	ZA	South African rand	ZAR
		United States	US	US dollar	USD
French	fr	Belgium	BE	Euro	EUR
		France	FR	Euro	CHF
		Switzerland	СН	Swiss frank	
German	de	Germany	DE	Euro	EUR
		Switzerland	СН	Swiss frank	CHF
Italian	it	Italy	IT	Euro	EUR
		Switzerland	СН	Swiss frank	CHF
Brazilian Portuguese	pt	Brazil	BR	Brazilian reel	BRL
Spanish	es	Argentina	AR	Argentinian peso	ARS
		Columbia	со	Columbian peso	COP
		Ecuador	EC	Ecuadorian sucre	ECS
		Mexico	MX	Mexican peso	MXP
		Spain	ES	Euro	EUR



**Note** Additional country locales may be supported. Contact your Perceptive Software representative for more information.

#### Additional supported currencies

In addition, AP Invoice eForm supports the following currencies:

Country	Supported Currency	Currency Code
Denmark	Danish Krone	DKK
Finland	Euro	EUR
Sweden	Swedish krona	SEK

#### Configuration considerations

**Note** For specific instructions on configuring your language, refer to the *AP Invoice eForm Installation* and *Setup Guide*.

When you configure ImageNow in a global environment, configure the following settings:

- · Windows regional settings
- Keyboard configuration
- Language Bar

For specific instructions on changing these settings, refer to Windows Help and Support.

### Windows regional settings

To display ImageNow data in your ImageNow Client or WebNow browser according to your locale, configure Windows regional settings to the language and locale you are running, such as Spanish in Spain or Spanish in Mexico. The formatting guidelines for each region vary. Refer to Microsoft Windows help for more information.

# Keyboard configuration

You can easily define a list of languages to be available for your own use, by adding or removing input languages in the Regional and Language Options in the Microsoft Windows Control Panel. For example, two users in the same department can configure a different input language on their respective devices. One user can use an English (United States) keyboard layout and a German (Germany) keyboard layout, while the other user can use English (United Kingdom) keyboard layout and a German (Swiss German) keyboard layout. This allows each user to insert or display text in both languages.

# Language Bar

After you customize your keyboard layout, use the Microsoft Windows Language Bar located on your desktop or Taskbar to switch between the input languages you have added. You can move the Language Bar anywhere on your desktop or minimize it to the Taskbar.

When you change your language of choice using the Language Bar, the selected language applies only to the currently active software program. For example, if your default language is English (United States), you open Microsoft Word, and you then change your language to German (Germany), the setting only



applies to Microsoft Word. All other programs you subsequently open use English (United States). Always verify that you are using the correct keyboard layout and language of choice when switching between programs.



# Appendix A: Add a custom currency example

The following steps show you how to add support for an additional currency to the AP Invoice eForm. For more information on virtual tables, refer to the *Perceptive AP Invoice eForm Virtual Tables Configuration Guide*. In the example below, the AP Invoice eForm includes the Venezuelan Bolívar (VEB).

- 1. Add a record to the **VENDOR** virtual table with Venezuela's country code, **VE**.
- 2. Add a record to the CURRENCY virtual table for the Venezuelan Bolívar.

	Α	В	С	D	E	F	
1	TableName	BusUnitID	CurrencyCode	CurrencyName	PayGroup	Active	
2	CURRENCY	1234	VEB	Venezuelan Bolívar	7000	А	
							г

3. Add a record to the **COUNTRYCURRENCY** virtual table, tying Venezuela's country code, **VE**, to the Venezuelan Bolívar currency, **VEB**.

	А	С	В	D	E	
1	TableName	CurrencyCode	CountryCode	LocaleCode	Active	
2	COUNTRYCURRENCY	VEB	VE	es-VE	Y	

- 4. In a text editor, open the **AP\_Custom\_Cultures.xml** file, and complete the following substeps:
  - 1. Add a new culture section, with formatting details, for the currency you just added.
  - 2. In the new culture section, specify the group separator and the decimal separator.

**Note** The culture name in the XML file must match the LOCALECODE in the COUNTRYCURRENCY virtual table.

- Save and close the AP Custom Cultures.xml file.
- 5. Start **INTool** by accessing a command prompt and changing directories to \inserver6\bin.

Note To use the 64-bit version of INTool, change the directory to \inserver6\bin64.

6. Enter the following command to run the AP Maintenance is script and commit the changes.

```
intool --cmd run-iscript --file AP_Maintenance.js
```

- 7. Complete the following substeps to verify the currency formatting:
  - 1. Open the AP Invoice eForm.
  - 2. Select the vendor you added in the previous steps and enter a value in the **Invoice Amount** field.
  - 3. Verify the value follows the correct currency formatting for the Venezuelan Bolívar.



# Appendix B: User interface labels, tooltips, and messages

#### User interface labels

The following table lists the available captionkeys and user interface captions for customization in the AP\_Custom\_Cultures.xml file.

In the case of eForm fields, such as Vendor Name, the table also lists the corresponding worksheet attribute for the AP\_Export.xml file. Some fields, such as Business Unit, can export more than one value, such as the business unit number (CompanyNumHdr) and the business unit name (CompanyNameHdr). You can map one or both fields in the AP\_Export.xml file independently.

**SAP labels**: The default UI captions for some fields in the SAP version vary from the defaults provided for other versions. The table below notes these differences. You may still configure these captions with the AP\_Custom\_Cultures.xml file.

Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_LOADING	Loading form	
LBL_BUSINESS_INFO	Business Information	
LBL_INV_INFO	Invoice Information	
LBL_GL_DIST	GL Distributions	
LBL_INV_LINES	Invoice Lines	
LBL_BUS_UNIT	Business Unit SAP: Company Name	CompanyNumHdr CompanyNameHdr
LBL_LOC	Location	LocationCode LocationName
LBL_PO_NUM	PO Number	PONumber Note Only for Credit Invoice
LBL_PO_AMT	PO Amount	POAmount POCurrency
LBL_VEND_NAME	Vendor Name	VendorName
LBL_VEND_ID	Vendor Number	VendorID
LBL_REMIT_TO	Remit To	RemitTo
LBL_VEND_ADDR	Vendor Number	VendorAddress



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_VEND_LOC	Vendor Location	VendorLocation VendorLocationName
LBL_VEND_SHORT_NAME	Short Name	VendorShortName
LBL_VEND_PAY_TERMS	Payment Terms	VendorPaymentTerms
LBL_VENDOR_VAT	VAT	VendorVAT
LBL_VEND_FIELD_1	Field 1	VendorField1
LBL_VEND_FIELD_2	Field 2	VendorField2
LBL_INV_NUM	Invoice Number SAP: Reference	InvoiceNumber
LBL_INV_DATE	Invoice Date SAP: Document Date	InvoiceDate
LBL_INV_DUE_DATE	Invoice Due Date SAP: Due Date	InvoiceDueDate
LBL_INV_AMT	Invoice Amount SAP: Amount	TotalAmount
LBL_INV_REF_NUM	Invoice Ref Num	InvoiceReferenceNumber
LBL_CREDIT_REASON	Credit Reason	CreditMemoReason
LBL_SALES_TAX	Sales Tax  Note If utilizing VAT with your eForm, use LBL_VAT_TOTAL rather than this caption key.	TaxAmount
LBL_VAT_TOTAL	Value added tax (VAT)  Note If utilizing VAT with your eForm solution, use this caption key rather than LBL_SALES_TAX.	TaxAmount
LBL_FREIGHT	Freight SAP: Unplanned Delivery Cost	FreightAmount
LBL_MISC_CHARGE	Misc. Charge	MiscCharge



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_PAY_IMMEDIATELY	Pay Immediately	PayImmediately
LBL_ADDL_AMT_1	Addl Amt 1	AddlAmt1
LBL_ADDL_AMT_2	Addl Amt 2	AddlAmt2
LBL_ADDL_AMT_3	Addl Amt 3	AddlAmt3
LBL_ADDL_AMT_4	Addl Amt 4	AddIAmt4
LBL_ADDL_AMT_5	Addl Amt 5	AddlAmt5
LBL_ADDL_AMT_6	Addl Amt 6	AddlAmt6
LBL_ADDL_AMT_7	Addl Amt 7	AddlAmt7
LBL_ADDL_AMT_8	Addl Amt 8	AddIAmt8
LBL_PO_INV_GL_TOTAL_AMT	GL Total	POInvoiceGLTotalAmt
LBL_SUT_CODE	SUT Code	SUTCode
LBL_SUT_APPLY	SUT Apply	SUTApplyCode SUTApplyCodeName
LBL_UUT_CODE	UUT Code	UUTCode
LBL_TAX_EXEMPT	Tax Exempt	TaxExempt
LBL_CURRENCY	Currency	Currency CurrencyName
LBL_PAY_GROUP	Pay Group	PayGroup
LBL_SPECIAL_HANDLING	Special Handling	SpecialHandling
LBL_PAYMENT_COMMENTS	Payment Comments SAP: Document Header Text	Comments
LBL_HDR_1	Hdr1	Hdr1
LBL_HDR_2	Hdr2	Hdr2
LBL_HDR_3	Hdr3	Hdr3



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_HDR_4	Hdr4	Hdr4
LBL_HDR_5	Hdr5	Hdr5
LBL_HDR_6	Hdr6	Hdr6
LBL_HDR_7	Hdr7	Hdr7
LBL_HDR_8	Hdr8	Hdr8
LBL_HDR_9	Hdr9	Hdr9
LBL_HDR_10	Hdr10	Hdr10
LBL_POLINE_MATCH_SELECT_AL	Select All	POLineMatchSelectAll
LBL_POLINE_MATCH	Match	UpdateHost
LBL_POLINE_TAXABLE_SELECT_ ALL	Select All	POLineTaxableSelectAll
LBL_POLINE_TAXABLE	Taxable	POLineTaxable
LBL_POLINE_POLINE_NUM	Line # SAP: PO Line Number	LineNumber
LBL_PO_NUM	PO Number	LinePONumber PO_ LinePONumber
LBL_POLINE_ITEM_NUM	Item #	ItemNumber PO_ ItemNumber
LBL_POLINE_DESCRIPTION	Description	ItemDescription PO_ ItemDescription
LBL_POLINE_QUANTITY	Quantity	Quantity PO_ Quantity
LBL_POLINE_OPEN_QUANTITY	Available Quantity	PO_OpenQuantity
LBL_POLINE_UOM	UOM	UOM PO_UOM



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_POLINE_UNITPRICE	Unit Price	UnitPrice PO_ UnitPrice
LBL_POLINE_PRICEUNIT	Price Unit	PriceUnit PO_ PriceUnit
LBL_POLINE_EXT_AMT	Extended Amount	ExtendedAmount PO_ExtendedAmount
LBL_POLINE_OPEN_AMT	Available Amount	PO_OpenAmount
LBL_POLINE_GR_DOCUMENT	GR Document	GRDocument PO_GRDocument
LBL_POLINE_GR_FISCAL_YEAR	GR Fiscal Year	GRFiscalYear PO_GRFiscalYear
LBL_POLINE_GR_ITEM	GR Item	GRItem PO_GRItem
LBL_POLINE_PO_1	PO1	PO1 PO_PO1
LBL_POLINE_PO_2	PO2	PO2 PO_PO2
LBL_POLINE_PO_3	PO3	PO3 PO_PO3
LBL_POLINE_PO_4	PO4	PO4 PO_PO4
LBL_POLINE_PO_5	PO5	PO5 PO_PO5
LBL_POLINE_PO_6	PO6	PO6 PO_PO6
LBL_POLINE_PO_7	PO7	PO7 PO_PO7



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_POLINE_PO_8	PO8	PO8 PO_PO8
LBL_POLINE_PO_9	PO9	PO9 PO_PO9
LBL_POLINE_PO_10	PO10	PO10 PO_PO10
LBL_POLINE_NUM	Line #	PO_LineNumber
LBL_GLLINE_TAXABLE_SELECT_ ALL	Select All	GLLineTaxableSelectAll
LBL_GLLINE_TAXABLE	Taxable	
LBL_GLLINE_PCT	Pct	LinePct
LBL_GLLINE_AMT	Amount	LineAmount
LBL_GLLINE_GL1	Account SAP: G/L Account	GL1
LBL_GLLINE_GL1_DESC	Account Description SAP: G/L Account Description	GL1Desc
LBL_GLLINE_GL2	Unit SAP: Cost Center	GL2
LBL_GLLINE_GL2_DESC	Unit Description SAP: Cost Center Description	GL2Desc
LBL_GLLINE_GL3	Sub Unit SAP: Profit Center	GL3
LBL_GLLINE_GL3_DESC	Sub Unit Description SAP: Profit Center Description	GL3Desc
LBL_GLLINE_GL4	Sub Acct SAP: WBS	GL4



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_GLLINE_GL4_DESC	Sub Acct Description SAP: WBS Description	GL4Desc
LBL_GLLINE_GL5	Activity	GL5
LBL_GLLINE_GL5_DESC	Activity Description	GL5Desc
LBL_GLLINE_GL6	GL6	GL6
LBL_GLLINE_GL6_DESC	Activity Description	GL6Desc
LBL_GLLINE_GL7	GL7	GL7
LBL_GLLINE_GL7_DESC	Activity Description	GL7Desc
LBL_GLLINE_GL8	GL8	GL8
LBL_GLLINE_GL8_DESC	Activity Description	GL8Desc
LBL_GLLINE_GL9	GL9	GL9
LBL_GLLINE_GL9_DESC	Activity Description	GL9Desc
LBL_GLLINE_GL10	GL10	GL10
LBL_GLLINE_GL10_DESC	Activity Description	GL10Desc
LBL_GLLINE_GL11	GL11	GL11
LBL_GLLINE_GL11_DESC	Activity Description	GL11Desc
LBL_GLLINE_GL12	GL12	GL12
LBL_GLLINE_GL12_DESC	Activity Description	GLDesc
LBL_GLLINE_GL13	GL13	GL13
LBL_GLLINE_GL13_DESC	Activity Description	GL13Desc
LBL_GLLINE_GL14	GL14	GL14
LBL_GLLINE_GL14_DESC	Activity Description	GL14Desc
LBL_GLLINE_GL15	GL15	GL15
LBL_GLLINE_GL15_DESC	Activity Description	GL15Desc



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_GLLINE_GL16	GL16	GL16
LBL_GLLINE_GL16_DESC	Activity Description	GL16Desc
LBL_GLLINE_GL17	GL17	GL17
LBL_GLLINE_GL17_DESC	Activity Description	GL17Desc
LBL_GLLINE_GL18	GL18	GL18
LBL_GLLINE_GL18_DESC	Activity Description	GL18Desc
LBL_GLLINE_GL19	GL19	GL19
LBL_GLLINE_GL19_DESC	Activity Description	GL19Desc
LBL_GLLINE_GL20	GL20	GL20
LBL_GLLINE_GL20_DESC	Activity Description	GL20Desc
LBL_GLLINE_GL21	GL21	GL21
LBL_GLLINE_GL21_DESC	Activity Description	GL21Desc
LBL_GLLINE_GL22	GL22	GL22
LBL_GLLINE_GL22_DESC	Activity Description	GL22Desc
LBL_GLLINE_GL23	GL23	GL23
LBL_GLLINE_GL23_DESC	Activity Description	GL23Desc
LBL_GLLINE_GL24	GL24	GL24
LBL_GLLINE_GL24_DESC	Activity Description	GL24Desc
LBL_GLLINE_DR_CR_IND	Debit/Credit	GLDrCrInd
LBL_DEBIT_INDICATOR	Debit	
LBL_CREDIT_INDICATOR	Credit	
LBL_MULPO_NUMS	PO Numbers	PONumber
LBL_MULPO_SEARCH_FILTER	Filter	



Captionkey attribute in AP_Skin.xml  Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_EXCLUDE_MATCHED_LINES	Exclude matched lines	
LBL_INV_DETAIL	INVOICE DETAILS	
LBL_GLACCT_BUS_UNIT	Business Unit SAP: Company Code	CompanyNum
LBL_GLACCT_ACCTG_UNIT	Acctg Unit	GLUnit
LBL_GLACCT_GLACCT	GL Acct	GLAcct
LBL_GLACCT_SUB_ACCT	Sub Account	SubAcct
LBL_GLACCT_ACCT_DESC	Account Description	GLAcctDesc
LBL_GLACCT_5	GL Acct 5	GLAcct5
LBL_GLACCT_6	GL Acct 6	GLAcct6
LBL_TOTAL_DIST	Total Distributed	
LBL_TO_BE_DIST	To Be Distributed	
LBL_VALIDATE	Validate	
LBL_PO_DATE	PO Date	
LBL_PO_DATE_MATCHED	Date Matched	
LBL_PO_DATE_CLOSED	Date Closed	
LBL_SEARCH_TITLE	Search	
LBL_POLINES_TITLE	PO Lines	
LBL_CREDIT_MEMO	Credit Memo #	InvoiceNumber
LBL_CREDIT_DATE	Credit Date	InvoiceDate
LBL_CREDIT_AMT	Credit Amount	CreditAmount
LBL_VEND_ID	Vendor Number	VendorID
LBL_VEND_NAME	Vendor Name	VendorName
LBL_SEARCH_VENDOR_ADDR	Address	



Captionkey attribute in AP_Skin.xml Key attribute in AP_Custom_Cultures.xml	Default English user interface caption Caption attribute in AP_Custom_Cultures.xml	Worksheet attribute in AP_Export.xml Element in AP_Invoice.xml
LBL_REMIT_TO	Remit To	RemitTo
LBL_MIN_CHAR	(minimum 3 characters)	
LBL_OK	ОК	
LBL_CANCEL	Cancel	
LBL_LINES_ADD	Add a line	
LBL_LINES_DELETE	Delete this line	
LBL_INVTYPE_PO	PO	
LBL_INVTYPE_NON_PO	Non-PO	
LBL_INVTYPE_CREDIT	Credit	
LBL_ADDL_ENTRY_DESC	Description	AOCCode
LBL_ADDL_ENTRY_AMT	Extended amount	AOCDescription
LBL_POLINE_VAT_JURISDICTION	Jurisdiction	PO_VATJurisdiction
LBL_POLINE_VAT_CODE	VAT Code SAP: Tax Code	POLVATRate POLVATCode
LBL_POLINE_VAT_AMOUNT	VAT Amount SAP: Tax Amount	POLVATAmount
LBL_POLINE_PO_VAT_ JURISDICTION	Jurisdiction	POLVATJurisdiction
LBL_POLINE_PO_VAT_CODE	VAT Code	PO_VATCode PO_VATRate
LBL_GLLINE_VAT_JURISDICTION	Jurisdiction	GLVATJurisdiction
LBL_GLLINE_VAT_CODE	VAT Code SAP: Tax Code	GLVATCode GLVATRate
LBL_GLLINE_VAT_AMOUNT	VAT Amount	GLVATAmount
LBL_SEARCH_VENDOR_VAT	VAT	



Captionkey attribute in AP_Skin.xml	Default English user interface caption	Worksheet attribute in AP_Export.xml
Key attribute in AP_Custom_Cultures.xml	Caption attribute in AP_Custom_Cultures.xml	Element in AP_Invoice.xml
LBL_SEARCH_VENDOR_FIELD1	Field 1	
LBL_SEARCH_VENDOR_FIELD2	Field 2	
LBL_VAT_SUMMARY	VAT SUMMARY	
LBL_VAT_SUMMARY_CODE	VAT Code	VATSummaryCode
LBL_VAT_SUMMARY_BASE	VAT Base	VATSummaryBase
LBL_VAT_SUMMARY_AMOUNT	VAT Amount	VATSummaryAmount
LBL_VAT_SUMMARY_TOTAL	VAT Sum	VATSummaryTotal
LBL_VAT_VEND_ID	VAT Vendor ID	
LBL_SOLD_TO_VAT_ID	Sold-To VAT ID	SoldToVATID
LBL_VAT_COMPLIANT	VAT Compliant	VATCompliant
LBL_TOTALS	TOTAL DISTRIBUTION	
LBL_VAT_TOTAL	VAT Total SAP: Tax Amount	
LBL_INV_POSTING_DATE	Invoice Posting Date SAP: SAP Entry Date	
LBL_AUTO_TAX_CALC	Automatic Tax Calculation	



# **Tooltips**

Captionkey attribute in AP_Skin.xml  Key attribute in  AP_Custom_Cultures.xml	Default English user interface caption
TOOLTIP_DATE_FORMAT	Please enter date in {datemask1} or {datemask2} format.
	Note AP Invoice eForm replaces {datemask1} and {datemask2} with the appropriate date format, as determined by AP_Custom_Cultures.xml. For example, "Please enter date in MMDDYYYY or MMDDYY format."
TOOLTIP_CLOSE	Close
TOOLTIP_IMG_PO_LINES_DIALOG	View PO Lines
TOOLTIP_IMG_GL_ACCT_SEARCH_ WINDOW	Look Up Account
TOOLTIP_IMG_PO_SEARCH_WINDOW	Look Up PO Number
TOOLTIP_IMG_VENDOR_SEARCH_ WINDOW	Look Up Vendor
TOOLTIP_IMG_VENDOR_REMIT_TO_ WINDOW	Look Up Remote To
TOOLTIP_IMG_GL_SEARCH_WIND	Look Up Account
TOOLTIP_IMG_VENDOR_VAT_ID_SEARC H_WINDOW	Look Up Vendor VAT ID
TOOLTIP_IMG_SOLD_TO_VAT_ID_ SEARCH_WINDOW	Look Up Sold-To VAT ID
TOOLTIP_IMG_MULPO_EDIT_WINDOW	+ or – PO Numbers
TOOLTIP_IMG_REFRESH_PO_LINES	Refresh PO Lines

# Error and confirmation messages

Captionkey attribute in AP_Skin.xml  Key attribute in  AP_Custom_Cultures.xml	Default English user interface captions
ERR_GEN	Error running eForm. Please check the log files for more information.
ERR_NONE	No errors.
ERR_DISTR	Invoice Amount not fully distributed.



Captionkey attribute in AP_Skin.xml  Key attribute in  AP_Custom_Cultures.xml	Default English user interface captions
ERR_PCT_DISTR	Distribution percentages do not total to 100%.
ERR_GLACCT	One or more invalid GL Accounts.
ERR_GLACCT_MISSING	Enter GL Distribution Entries.
ERR_EXTAMT	Line Item amounts do not total Extended Amounts. Please check distribution.
ERR_PREVIOUSLY_EXPORTED	This invoice was previously processed.
ERR_REQUIRED_FIELDS	Required fields are missing.
ERR_GL_CODES_INVALID	GL codes are invalid.
ERR_SEARCH_LIMIT	incomplete
ERR_NO_MATCH	No match found.
ERR_VENDOR_NOT_FOUND	Vendor not found.
ERR_DUP_CHECK	The duplicate invoice detection process requires configuration.  Contact your system administrator.
ERR_DUP_INVOICE	A duplicate invoice exists in the system. To resolve the conflict, review the current invoice and make any necessary changes.
ERR_PO_CLOSED	This PO is closed.
ERR_PO_NUM_NOT_FOUND	PO number not found.
ERR_CURR_MATCH	The purchase order currency does not match the invoice currency.
ERR_CONFIG	Configuration error: {value1} permission = '{value2}'. Changing to '{value3}'.
ERR_PO_GL_DISTR	GL distributions not fully distributed
ERR_DATE_FORMAT	Enter a date in {datemask1} or {datemask2} format.  Note AP Invoice eForm replaces {datemask1} and {datemask2} with the appropriate date format, as determined by AP_Custom_Cultures.xml. For example, "Please enter date in MMDDYYYY or MMDDYY format."



Captionkey attribute in AP_Skin.xml Key attribute in AP_Custom_Cultures.xml	Default English user interface captions
ERR_CURRENCY_FORMAT	Enter an amount in ###{decimalmask1}## format.
	<b>Note</b> AP Invoice eForm replaces ###{decimalmask1}## with the appropriate decimal format, as determined by AP_Custom_Cultures.xml.
ERR_DECIMAL_FORMAT	Enter a decimal in ###{decimalmask1}## format.
	<b>Note</b> AP Invoice eForm replaces ###{decimalmask1}## with the appropriate decimal format, as determined by AP_Custom_Cultures.xml.
ERR_PERCENT_FORMAT	Enter a percentage in ###{decimalmask1}## format.
	<b>Note</b> AP Invoice eForm replaces ###{decimalmask1}## with the appropriate decimal format, as determined by AP_Custom_Cultures.xml.
ERR_VAT_TOTAL_MATCH	The header-level Value Added Tax does not match the line-level Value Added Tax.
ERR_CURR_MATCH	The purchase order currency does not match the invoice currency.
ERR_SOLD_TO_VAT_ID_NOT_FOUND	No VAT ID found for the selected business unit.\n\n Enter a VAT ID or contact a system administrator to request that a VAT ID be added for this business unit.
	<b>Note \n\n</b> places two new lines between the first and second sentences.
ERR_VENDOR_VAT_ID_NOT_FOUND	No VAT ID found for the selected vendor.\n\n Enter a VAT ID or contact a system administrator to request that a VAT ID be added for this vendor.
	Note \n\n places two new lines between the first and second sentences.
ERR_INVALID_PO	The vendor for this PO Number does not match the vendor for the previously selected PO Number.
	Enter a valid PO Number or remove selected PO Numbers and try again.
ERR_VENDOR_DIFFERENT	Invalid PO Number for the selected vendor Enter a valid PO Number for the current vendor or remove selected PO Numbers and try again
ERR_INV_AMT_NEGATIVE	Invalid debit amount Enter a positive amount or use credit
CONFIRM_PO_NUMBER_CHANGE	The form will replace all existing lines related to the PO number. Do you want to change the PO number?



Captionkey attribute in AP_Skin.xml  Key attribute in  AP_Custom_Cultures.xml	Default English user interface captions
CONFIRM_PO_NUMBER_CHANGE_ POLINEMATCHING	The form will clear all captured invoice data. Do you want to change the PO number?
MESSAGE_PO_NUMBER_CLEAR	To clear all PO and GL lines, click the Clear Form Data button above.
TEXT_CRITERIA_VENDOR_SEARCH	Enter vendor name.
TEXT_CRITERIA_GL_ACCT_SEARCH	Enter account description.
TEXT_CRITERIA_PO_SEARCH	Enter vendor ID.
TEXT_MATCH	match
TEXT_MATCHES	matches



# Appendix C: Document types and custom properties

The AP Invoice eForm installation process creates two document types, Invoice and Credit Memo. It also creates the custom properties required by each document type. The following tables describe the custom properties associated with the document types.

#### Invoice

Custom Property Name	Data Type	Description
Company	String	The business unit for the invoice
Vendor ID	String	The unique identification number for the vendor associated with the invoice
Vendor Name	String	The name of the vendor associated with the invoice
Invoice Number	String	The unique number associated with the invoice
Invoice Date	Date	The invoice issue date
Invoice Due Date	Date	The invoice due date
Invoice Amount	Number	The invoice total amount
Invoice Tax Amount	Number	The invoice total tax amount
Pay Immediately	Flag	A flag that indicates whether the invoice is processed immediately
PO Number	String	The unique purchase order number associated with the invoice
PO Amount	Number	The purchase order amount associated with the invoice
PO Variance Amount	Number	The amount, in dollars, for variance exceptions
PO Variance Factor	Number	The amount, in percentages, for variance exceptions
AP Header Valid	String	The header error codes used for exception handling
AP Detail Valid	String	The detail error codes used for exception handling
AP Custom Valid	String	The custom error codes used for exception handling
Invoice Export Status	String	The invoice export status



## **Credit Memo**

Custom Property Name	Data Type	Description
Company	String	The invoice business unit
Vendor ID	String	The unique identification number for the vendor associated with the invoice
Vendor Name	String	The name of the vendor associated with the invoice
Credit Memo Number	String	The unique number associated with the credit memo
Credit Date	Date	The credit memo creation date
Credit Amount	Number	The total amount of the credit memo
Credit Tax Amount	Number	The total amount of taxes of the credit memo
Pay Immediately	Flag	Flag that indicates whether the invoice is processed immediately
PO Number	String	The unique purchase order number associated with the invoice
PO Amount	Number	The purchase order amount associated with the invoice
PO Variance Amount	Number	The amount, in dollars, for variance exceptions
PO Variance Factor	Number	The amount, in percentages, for variance exceptions
AP Header Valid	String	The header error codes used for exception handling
AP Detail Valid	String	The detail error codes used for exception handling
AP Custom Valid	String	The custom error codes used for exception handling
Invoice Export Status	String	The invoice export status
Invoice Reference Number	String	The invoice number that the credit memo refers to
Credit Reason	String	The reason for the credit memo issuance



# Appendix D: AP Invoice eForm file directories

The following table details the directories of all of the AP Invoice eForm files that the system installs when you run the AP Invoice eForm installation wizard.

#### \inserver6\etc\ap

Installed Form File	Description
AP_Config.xml	This XML file stores the business application name. Leave the <virtualtable> attribute value as true unless this is a custom form implementation. Valid entries include Lawson, PeopleSoft, and Great Plains. The selected business application appears in this XML file in the <host> element. You can use the eForm for virtually any business application that receives uploaded invoices. To install the eForm for any other business application, choose one of the existing available business application options that best fits the scenario.</host></virtualtable>
AP_Custom_Cultures.xml	This XML file contains the configuration information used for global customization in your AP Invoice eForm.
AP_Export.xml	This XML file contains the configuration information used when you are exporting data from ImageNow to your business application.
AP_Skin.xml	This file is the main configuration file for the invoice form.
AP_Validate_Server.xml	This XML file contains the data-mapping configuration between your form and the custom properties and document keys in ImageNow. Use this file to configure which fields are required user entries in the form.
AP_VirtualTable_Updater.xml	This XML file contains the configuration information used for importing data from your business application, via CSV data files, into the virtual tables.

# \inserver6\temp\ap

If your ImageNow Server is not on the C:\ drive, you use a non-Windows platform, or you have an active-active server environment, then you must configure the directory paths in the

**AP\_VirtualTable\_Updater.xml** and **AP\_Export.xml** files. The tables below outline the directories as they appear by default in **AP\_VirtualTable\_Updater.xml**.

#### Default paths:

Default Directory	Description	File	Attribute
C:\inserver6\temp\ap\archive	The location where the AP_VirtualTable_Updater.js script sends the CSV data files after processing.	AP_VirtualTable_Updater.xml	archivepath
C:\inserver6\temp\ap\error	The location where the AP_VirtualTable_Updater.js script sends the CSV files if it encounters errors.	AP_VirtualTable_Updater.xml	errorpath



Default Directory	Description	File	Attribute
C:\inserver6\temp\ap\export	The location where the AP_VirtualTable_Updater.js script sends the exported data files for upload into your business application.	AP_Export.xml	outputdir
C:\inserver6\temp\ap\import	The location from which the AP_VirtualTable_Updater.js script imports CSV files.	AP_VirtualTable_Updater.xml	inputpath

# \inserver6\script

Installed Form File	Description	
AP_Custom_Invoice_Export.js	The form uses this script to massage export data. This script should contain all custom functions you need to export valid data.	
AP_Custom_Validate_Server.js	The form uses this script when you write custom validation logic.	
AP_DupCheck.js	The form uses this script to execute duplicate invoice logic. The configuration section for duplicate check is located in the AP_Config.xml file.	
AP_GetGLAcctCode.js	The form uses this script to retrieve GL account codes.	
AP_GetCompanies.js	The form uses this script to retrieve Business Unit, SUT, Currency, Location, Special Handling codes, and other information.	
	To improve performance while loading the eForm, the eForm caches the drop-down values that the AP_GetCompanies.js script gathers from the virtual tables or associated ERP application. The script saves the cached file in [Drive:]/inserver6/form/ <apef directory="" form="">/GetCompaniesCache.js on the server. Each time the ImageNow or WebNow client opens the form, this cache file is sent to the client along with other presentation files like AP_SkinCache.js.</apef>	
	The script runs every time the eForm loads and whenever the cache is stale.  The following configurable parameter determines when the cached values become stale.	
	The cache duration is defined in CacheDuration parameter in <ap_getcompanies> tag under <scripts> tag of the AP_Config.xml file. By default, the script caches these values for 60 minutes. You can adjust this time as necessary.</scripts></ap_getcompanies>	
	Important If you are testing AP_VirtualTable_Updater.js and do not see the changes (new values) reflected in the AP Invoice eForm, run AP_Maintenance.js script.	
AP_GetData.js	The form uses this script to retrieve PO information related to the Credit invoice type.	
AP_GetData_Custom.js	The form uses this script to get your custom data, if any.	



Installed Form File	Description	
AP_GetGLAcctCodes.js	The form uses this script to retrieve GL Codes.	
AP_GetGLCodeLists.js	The form uses this script to retrieve a GL Code list from the GL Codes table.	
AP_GetGLCodeUserConstraints.js	The form uses this script to retrieve the GL User constraints per GL Codes.	
AP_GetPO.js	The form uses this script to retrieve Purchase Order information given a vendor ID or vendor name.	
AP_GetPOLines.js	The form uses this script to retrieve Purchase Order information.	
AP_GetVendorLoc.js	The form uses this script to retrieve vendor location information.	
AP_GetVendors.js	The form uses this script to retrieve Vendor Information for the vendor list in the Vendor Search dialog box.	
AP_Invoice_Export.js	ImageNow uses this script to export XML data from ImageNow into the appropriate format for the related business application.	
AP_Maintenance.js	The form uses this INTool script to complete client side caching and other maintenance tasks associated with performance. We recommend that you schedule this script to every minute.	
AP_ReindexAndCPMapping.js	Use this script in ImageNow workflow to index form data and set form data into custom properties based on the AP_Validate_server.xml file configuration.	
AP_ValidateGLAcctCodes.js	Use this script to validate GL Account code entries. The script is executed when the user clicks the VALIDATE button on the GL Entry portion of the form.	
AP_Validate_Server.js	Use this script in ImageNow workflow to validate form values, retrieve data, and populate custom properties or document key values. Apply the script as an in-bound action.	
AP_ValidateGLCodes.js	The form uses this script to validate GL code entries. The script runs when the user clicks the VALIDATE button on the GL Entry portion of the form.	
AP_VirtualTableInstaller.js	The installer uses this script to install the virtual tables.	
AP_VirtualTable_Purge.js	INTool calls this whenever the Purge routine needs to be run against the virtual table data.	
AP_VirtualTable_Updater.js	Use this script to update your virtual tables with the business application data from the CSV files.	



## \inserver6\form\[build folder]

The build folder name appears in a format similar to 200000003\_00006T3XEMH3. You can locate the following files in the \inserver6\form\[build folder] directory.

**Note** You may also see the build folder path as \inserver6\worksheet\[build folder].

Installed Form File	Description	
AP.xsl	This file is the presentation file for the AP Invoice eForm. Do not modify this file. Instead, use the AP_Skin.xml file and the WorksheetStylesheet.css file to alter the form format and presentation.	
AP_CustomValidation_Client.js	This file contains any custom logic that you might add as form event handlers. For example, when the user tabs away from an eForm field, you might want to add some additional processing logic. The logic, implemented as a JavaScript function, would be placed in this file.	
AP_Worksheet_Scripts.js	ImageNow uses this script within the form to provide search dialogs for looking up general ledger account codes and looking up vendors.	
	The form uses this script to apply the configurations contained within the AP_Skin.xml file to the form display and to validate form data.	
AP_SkinCache.js	This local cache file loads inline logic to the invoice form when the form opens.	
AP_Skin.xml	This file contains a cached copy of the configuration settings AP.xsl uses.	
<customerlogo>.jpg</customerlogo>	This is the customer logo image file used in the invoice form. This file name must match the customerlogo entry in the AP_Skin.xml file.	
globalize.js	This file contains all the generic globalization functions used by the AP Invoice eForm. This file also contains the default values for the en-US language setting for when the system does not detect a valid language. Do not modify this file.	
globalize_culture_all.js	This file contains the culture information for all supported cultures. Do not modify this file.	
globalize_culture_custom.js	This file contains customization configurations to cultures or newly defined cultures. Do not modify this file.	
WorksheetStylesheet.css	This is the cascading style sheet file used for the presentation of the AP Invoice eForm. Use this file to modify the styles used in your form implementation.	



## \inserver6\form\data\_definition

The following XML files are located in the \inserver6\form\data\_definition directory.

**Note** You may also see this folder path as \inserver6\worksheet\data\_definition.

Installed Form File	Description	
AP_Invoice.xml	This file is the data definition file for the AP Invoice eForm and typically should not need modification. The only modification that is allowed is the default setting for the invoice type.	
	The supported invoice types are PO, Non-PO, and Credit Memo in any of the following variations.	
	• For PO - "po"	
	• For Non-PO - "no-po", "non-po", "nopo", "nonpo", "n-po", "npo"	
	For Credit Memo - "credit", "credit memo", "credit-memo", "cm"	
	The values for the file types are not case sensitive.	

## \inserver6\log

Log files associated with the invoice form installation and configuration are stored in the \inserver6\log directory.

Installed Form File	Description
AP_GetCompanies_ <current date="">.log</current>	This log file is created after you open the form.
AP_GetVendors_ <current date="">.log</current>	This log file is created after you run a vendor search in the form.
AP_VirtualTable_Installer_ <current date="">.log</current>	This log file is created after you run the installer. The file details the success or failure of the virtual table creation during installation.
AP_VirtualTable_Updater_< <i>current</i> date>.log	This log file is created after you run the AP_VirtualTable_Updater.js script. The log file details the success or failure of the virtual table updates between ImageNow and the CSV data files the customer places in the path specified in the input path variable in the ap_virtualtable_updater.xml file.

# Appendix E: Custom logic

## Global variables

These variables are available for use in the AP\_CustomValidation\_Client.js for custom scripting.

Variable	Description		
glnitialTab	The value of the document's invoice type. For example, PO, non-PO, or credit memo.		
gUserName	The value of the user currently viewing the eForm.		
gDocID	The value of the document ID.		
gExportDate	The date on which AP_Invoice_Export.js exported the document.		
gDocType	The document's type.		
gFolder	The value of the document's folder index key.		
gTab	The value of the document's tab index key.		
gField1	The value of the document's Field1 document property.		
gField2	The value of the document's Field2 document property.		
gField3	The value of the document's Field3 document property.		
gField4	The value of the document's Field4 document property.		
gField5	The value of the document's Field5 document property.		
gDrawer	The value of the document's drawer.		
gQueue	The value of the queue where the document exists at the time the script runs.		



#### **Custom functions**

You can use the following functions to customize your AP Invoice eForm.

Function	Description	
custom_headerPermission	Set this function to true to enable header customization.	
custom_detailPermission	Set this function to true to enable detail header customization.	
custom_glDetailPermission	Set this function to true to enable GL detail header customization.	
custom_glDetailPOPermission	Set this function to true to enable GL detail PO invoice header customization.	
custom_glDetailNonPOPermission	Set this function to true to enable GL detail Non-PO invoice header customization.	

## Add custom business logic to the form

Use the following methods, called user exits, to add your own business logic to AP Invoice eForm without causing the solution to fail.

- Adding JavaScript event handlers to form field events such as onclick and onblur.
- Calling a server-side iScript from the form to complete database lookups or validation.
- Supplementing the validation script provided with AP Invoice eForm (the inbound iScript that runs after an invoice is routed forward).

The following sections explain these user exits.

# JavaScript event handlers

The file AP\_CustomValidation\_Client.js has user exit points where you can add custom logic to handle various events that occur in the AP Invoice eForm. The following custom scripting events are available:

- When the user opens the form (body onload event).
- When the user changes a field's value in a form. You can perform event handling, such as onclick or onblur.
- When you use custom code to handle the following JavaScript events.

Event	Description	
onblur	Occurs when an element loses focus.	
onclick	Occurs when the user clicks an object.	
onfocus	Occurs when an element has focus.	
onkeydown	Occurs when a keyboard key is pressed.	
onkeypress	Occurs when a keyboard key is pressed or held down.	



Event	Description
onkeyup	Occurs when a keyboard key is released.
onmouseover	Occurs when the mouse button is moved over an element.
onmouseout	Occurs when the mouse button is moved off an element.
onmouseover	Occurs when the mouse button is released.

- When the user clicks the Validate button, either before the validate event or after the validate event, the following actions occur:
  - The before validate event runs. You can insert custom logic before out-of-the box validation code runs.
  - 2. Standard out-of-the-box validation code runs.
  - The after validate event runs. You can insert custom logic after the out-of-the box validation code runs.
- When the user adds a row to the eForm.
- When the user closes the form (body onunload event).

### Call a server-side iScript

You can use the iScript dbcall method to call your custom iScript. For example, you can call your own iScript file with the dbcall method when an event such as button click occurs in a form field. A generic button is available for this purpose. For more information on using the dbcall method, refer to the "Form iScript attributes and parameters" topic in ImageNow *Administrator* Help.

An iScript named AP\_GetData\_Custom.js provides the basic mechanism for exchanging data between the form and your external data sources.

The following example shows how you might modify the AP\_GetData\_Custom.js file.



```
"AP_GetData_Custom.js(): Configuration not verified.
    " + "';" ) );
    return;
}

var param = getInputParams();

if (param.length>0)
{
    var arg1 = trim(param[0]);
    debug.log("INFO", "Input Argument 1: %s\n", arg1);
}

//custom code goes here
    var rtnJson = "customData.success = true";

debug.log("DEBUG", "Returning: %s\n", rtnJson);
setOutputParams( new Array( rtnJson ) );
```

## Enhance the validation iScript

You can use an inbound script to route an item forward to the next queue by writing an iScript file and then calling that file from the AP\_Validate\_Server.js file. You can also insert the custom script directly in the AP\_Validate\_Server.js file. The AP\_Validate\_Server.js file calls your iScript file and then performs that event. The AP\_Custom\_Validate\_Server.js file is available for you to write your custom code. It is called by AP\_Validate\_Server.js to run your validation.

The following example shows how you might modify the AP\_Custom\_Validate\_Server.js file.

```
function custom_validation(wsXML)
    debug.log("INFO", "\n");
    debug.log("INFO", "Custom Validation:\n");
      if (wsXML==null)
        debug.log("ERROR", "\twsXML object is null.\n");
        return;
    //insert your custom logic here
    //examples of how to traverse the wsXML object
    try
        debug.log("INFO", "\tInvoice Number: %s\n", wsXML.InvoiceNumber);
       debug.log("INFO", "\tVendor ID: %s\n", wsXML.VendorID);
      //add your custom validation logic here
    }
    catch (e)
        return 'Error: custom_validation()' + e.toString();
      //use next line if you want to dump contents of wsXML object
       //return "Custom Validation Error";
```



```
//use next line to return no error
return "";
}
```

### Enhance the export iScript

The following section provides examples that you can use to enhance the export iScript.

#### Field level sample

In the following example, the field export massager passes the function two parameters, the field name and the field value (by reference).

```
function custom_field_massager(fieldName, &fieldValue)
{
    debug.log("DEBUG", "Entering function custom_field_massager() ...\n");

    debug.log("DEBUG","custom_massager -- fieldName:[%s], fieldValue:[%s] --\n",
fieldName, fieldValue);

    //IF FIELD IS MA-VENDOR, prepend 0 padding to 10 characters
    if(fieldName == "MA-VENDOR")
    {
        while(fieldValue.length < 10)
        {
            fieldValue = "0"+fieldValue;
        }
    }
    debug.log("DEBUG","custom_field_massager() ... returning fieldValue:[%s]\n",
fieldValue);
    debug.log("DEBUG", "Exiting function custom_field_massager() ...\n");
}</pre>
```

# Global level sample

In the following example, you can customize the global export massager to configure an object to represent all of the data you want to export. For more examples, see the AP\_Custom\_Invoice\_Export.js.

```
function custom_export_massager(&exportObj)
{
    debug.log("DEBUG", "Entering function custom_export_massager() ...\n");
    //MODIFY CONTENTS OF THE HEADER DATA
    //EXAMPLE: IF Vendor is '3004' then set Location and Disc-Date to some value
    if(exportObj.header)
    {
        if(exportObj.header['MA-VENDOR'] == "3004")
        {
            exportObj.header['MA-LOCATION'] = "test location";
            exportObj.header['MA-DISC-DATE'] = "12/31/2010";
        }
    }
    debug.log("DEBUG", "Exiting function custom_export_massager() ...\n");
}
```

# Appendix F: Reserved characters in XML and forms

We do not recommend using special characters in queue names.

XML reserves some characters as markup delimiters. These reserved characters cannot appear as a literal string in XML character data, such as the text value of an element. Exceptions occur when you use these characters as markup delimiters, in comments, in processing instructions, and in character data (CDATA) sections.

To use a reserved character in text, use an escape sequence. XML provides standard escape sequences, called character entity references. These provide a way to refer to a character that is not universally encodable.

This table lists reserved characters and the replacement entity references.

Reserved character	Meaning	Entity reference/ escape sequence	Comments/What to use when coding a form
>	Greater than	\$gt;	For compatibility, this character must be escaped using the entity reference or as a character reference when it appears in the string "]]>" in content and when that string is not marking the end of a CDATA section.
<	Less than	<	This character should always appear in content as an escape character so that it does not interact with the syntax of the markup.
&	Ampersand	&	This character should always appear in content as an escape character so that it does not interact with the syntax of the markup.
,	Apostrophe	'	You can symbolize the apostrophe or single-quote character (') with this character entity reference when you need to embed a single-quote or apostrophe inside a string that is already single-quoted.  Although ' is part of the XML language, it is not defined in
п	Quotation mark	"	HTML. Use ' if passing text to an HTML user agent.  You can symbolize the double-quote character (") with this character entity reference when you need to embed a double-quote inside a string that is already double-quoted.  Note Use \" when writing unparsed data to XML.
%	Percent	%	The Notification Services XML vocabulary reserves the percent sign (%) for denoting parameters.  Note \$#37 is an escape sequence, but not an entity reference defined by XML.
\	Slash	None required	Note Use \\ when writing unparsed data to XML.



# Appendix G: ERP specific values associated to financial terms

AP Invoice eForm sends ERP-specific values to indicate debit or credit transactions and enable or disable automatic tax calculations. Users select the debit or credit value from a list in the eForm. The eForm provides one set of values for SAP and another set of values for all other ERP applications. The following table lists the values.

Terms	SAP specific indicator	Indicator for other ERP applications
Debit or Credit	Debit: S Credit: H	Debit: 1 Credit: 0
Automatic tax calculation	Enable: X Disable: <no value=""></no>	Enable: True Disable: False

