Perceptive Connector for Infor Lawson AP Invoice Automation

Integration Guide

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What is Perceptive Connector for Infor Lawson AP Invoice Automation?

Perceptive Connector for Infor Lawson APIA (AP Invoice Automation) is a solution that integrates Perceptive Content with Infor Lawson APIA to enable creation of invoice transactions within the Infor Lawson environment directly from Perceptive Content. During the invoice coding and approval process in APIA, users view the invoice image using requests made through the connector. When invoice processing is complete, APIA submits the final invoice information to Perceptive Content through the connector, facilitating the synchronization of document indexes. The connector routes the document through workflow as it is updated. To enable seamless communication between Perceptive Content and Infor Lawson APIA, both the applications and the connector must be configured. This guide discusses about how to configure Perceptive Content, Infor Lawson APIA, and the Perceptive Connector for Infor Lawson APIA so that they can seamlessly communicate with each other.

This assumes that Perceptive Content, Infor Lawson APIA, and Perceptive Connector for Infor Lawson APIA are already installed. For more information about the installation process of these products, refer to the respective installation and setup guides.

Configure Perceptive Content

Perceptive Content workflow with Envoy services facilitates back-end integration of Perceptive Content with Infor Lawson APIA. To configure Perceptive Content to work with Infor Lawson APIA, complete each of these tasks in the specified order.

- Create the custom properties
- 2. Create the document type
- 3. Associate custom properties to document type
- 4. Configure Envoy
- 5. Create the workflow process

Create the custom properties

You must create the following custom properties that automatically updates after Infor Lawson successfully processes the document.

- Finance Group
- Company
- Vendor ID
- Vendor Name
- Invoice Number
- Invoice Date
- Invoice Amount
- PO Number
- Voucher Number
- Payment Number

- Payment Date
- Payment Amount
- APIA Error Type
- APIA Error Message

Note Invoice Amount is a number type custom property. Invoice Date and Payment Date are date type custom properties.

To create these custom properties, complete the following steps.

- 1. In Management Console, in the left pane, click Custom Properties.
- 2. On the Custom Properties tab, click New > String.

Note When you create a number type custom property, such as Invoice Amount, on the **Custom Properties** tab, click **New** > **Number**. Similarly, when you create a date type custom property, such as Invoice Date or Payment Date, on the **Custom Properti**es tab, click **New** > **Date**.

- 3. In the New String Property dialog box, in the Name box, type Finance Group and click OK.
- 4. To create the remaining string type custom properties, repeat the previous steps for each string type custom properties listed above. Apart from Invoice Amount, Invoice Date, and Payment Date, all other custom properties are of string type.

Create the document type

To create the document type, complete the following steps.

- 1. In Management Console, in the left pane, click Document Types.
- 2. On the **Document Types** tab, click **New**.
- 3. Under **Select a document type**, type Invoice as the document type.

Associate custom properties to document type

To associate the custom properties to document type, complete the following steps.

- 1. On the **Document Types** tab, under **Select a document type**, select the **Invoice** document type, and click **Modify**.
- 2. In the **Document Type** dialog box, select the **Custom Properties** tab.
- Under Available, select the custom property you want to associate to the document type and click Add.
- 4. Repeat the previous step until all the custom properties are included under the Added list.
- 5. Click OK.

Configure Envoy

You must configure the AsqEndpointService envoy service with its corresponding operation and WSDL URL as shown in the table given below. To configure a Perceptive Content Envoy service, complete the steps given in this section.

Web service	Operation	WSDL URL
AsqEndpointServi ce	InvokeTrigger	http:// <ip connect="" installed="" is="" of="" perceptive="" system="" the="" where="">:<port number="">/ws/workflowTrigger?wsdl</port></ip>

For more information on configuring ASQEndpointService, refer to the Perceptive Connect document.

- 1. In Perceptive Content, click Manage to open Perceptive Content Management Console.
- 2. In the Perceptive Content Management Console, in the left pane, click Envoy Services > New.

Note If **Envoy Services** does not appear in the left pane, ensure that you change the department to **Cross Department Settings** from the **Select Department** drop-down.

- 3. In the Envoy Services dialog box, in the Definition page, set the following attributes.
 - 1. In the Name box, type a name to identify the remote service. For example, ASQEndpointService
 - 2. Optional. In the **Description** box, type a description of the remote service.
 - In the URI box, type the URI for your connector server in the format http://<Perceptive ConnectRuntimeserver>/ws/workflowTrigger?wsdl. For example, http://localhost:81/ws/workflowTrigger?wsdl
 - 4. In the Authentication list, select None.
 - 5. Optional. If you want to enable interceptor logging for the remote service, select the **Enable** interceptor logging check box.
- 4. Click Next.
- 5. In the **Operations** page, in the ASQEndpointService operation, select the check box for **InvokeTrigger**.
- 6. Click Finish.

Create the workflow process

Given below is an example to create a Perceptive Connector for Infor Lawson APIA specific workflow. You may modify the suggested workflow to fit your specific document processing rules.

- 1. In Perceptive Content Management Console, in the left pane, click Workflow.
- 2. In the right pane, on the **Workflow** tab, click **New**.
- 3. In the **Add Process** dialog box, in the **Name** box, type a name, such as Infor Lawson AP Invoice Automation.
- 4. Optional. In the **Description** box, type a description of the process.
- 5. Click OK.

Create the Queues

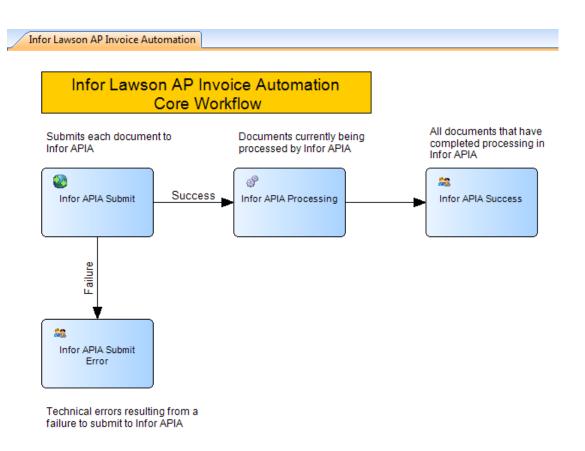
To trigger the connector process, configure an Integration ASQ, three work queues, and a system queue. The following table describes the queues that you must add in the workflow process.

Queue Name	Queue Type	Description
Infor APIA Submit	ASQ	First queue where the documents are submitted for processing.
Infor APIA Submit Error	Work	Documents are routed to this queue from the Infor APIA Submit queue if a technical error occurs while routing it to the Infor APIA Processing queue.
Infor APIA Processing	System	Documents currently being processed in Infor Lawson APIA are routed to this queue from the Infor APIA Submit queue.
Infor APIA Success	Work	Documents are routed from the Infor APIA Processing queue to this queue if Infor Lawson APIA processes the documents successfully.

Notes

- When you create the workflow queues manually, it is recommended that you create the queues with names as specified in the table.
- If you use Perceptive Intelligent Capture along with Perceptive Connector for Infor Lawson APIA but occasionally want to bypass Intelligent Capture for some invoices, you must create another integration ASQ and configure two different channels.

The following image displays how the workflow process layout appears in the Perceptive Content Workflow Designer window. The image includes a brief description for each queue in the workflow.



To add queues in the workflow process, complete the following procedures.

- Create the Infor APIA Submit Error and Infor APIA Success
- Create the Infor APIA Processing queue
- Create the Infor APIA Submit queue

Create the Infor APIA Submit Error and Infor APIA Success

To create the Infor APIA Submit Error and Infor APIA Success work queues, complete the following steps.

- 1. Select the workflow you created in "Create or open the workflow process" and click **Modify**.
- 2. In the **Workflow Designer** window, in the left pane, under **Queues**, select the **Work** queue and drag it to the right in your process diagram. Repeat this step to create another work queue.
- 3. Double-click the first work queue, and in the **Queue Properties** dialog box, in the **Name** box, type **Infor APIA Submit Error** and click **OK**.
- 4. Repeat the previous step to name the **Infor APIA Success** queue...

Create the Infor APIA Processing queue

To create the Infor APIA Processing queue, complete the following steps.

- 1. In the **Perceptive Content Workflow Designer** window, in the left pane, under **Queues**, select **System** and drag it into your process diagram to the right.
- 2. Double-click the **System** queue and in the **Queue Properties** dialog box, in the **Name** box, type **Infor APIA Processing**.
- 3. In the left pane, click Routes, and under the Routes Out tab, click Add.
- 4. In the **Add Route Out** dialog box, select **Destination** tab.
- 5. In the Available queues box, select Infor APIA Success, and then click Add.
- 6. Click **OK** to close the **Add Route Out** dialog box.
- 7. Click OK.

Create the Infor APIA Submit queue

To create the Integration automated system queue (ASQ) in the workflow process you created, complete the following steps.

- 1. In the **Perceptive Content Workflow Designer** window, in the left pane, under **Queues**, select **Integration** and drag it into your process diagram to the right.
- 2. Double-click the Integration queue and in the **Queue Properties** dialog box, in the **Name** box, type Infor APIA Submit.
- 3. Under **Automated Action**, set the following attributes.
 - 1. Under **Success Action**, in the **Process** list select the workflow process and in the **Queue** list select **Infor APIA Processing**.
 - Under Failure Action, in the Process list select the workflow process and in the Queue list select Infor APIA Submit Error.
 - 3. Under **Envoy Service**, in the **Service Operation Name** list, click the Envoy Service name, such as ASQEndpointService::InvokeTrigger.
 - 4. Click OK.

Configure Infor Lawson AP Invoice Automation connectivity

You can configure multiple Infor Lawson connections in the connector. To configure the Infor Lawson connection, complete the following steps.

- 1. In Perceptive Connect Runtime Web Console, under Perceptive Connect, click View Configuration.
- In the View Configuration page, under Perceptive Content Connector, click Integration Server 6.7 Connection.
- 3. In the **Integration Server 6.7 Connection** dialog box, ensure that the **Integration Server URL** field displays the correct URL.
- 4. Navigate back to the View Configuration page, and under General, click the Edit the configuration values button next to Infor Lawson APIA Configuration.

- 5. In the **Infor Lawson APIA Configuration** dialog box, complete the following steps.
 - 1. In the Invoice Header wsdl box, enter the Infor Lawson wsdl for Invoice header posting.
 - 2. In the Invoice Detail wsdl box, enter the Infor Lawson wsdl for Invoice line posting.
 - In the Base URL Indicator list, select the appropriate version name of WebNow or Perceptive Web.
 - 4. In the **Perceptive Web url** box, type the Perceptive Web URL that facilitates viewing of invoice.
 - 5. In the **WebNow url** box, type the WebNow URL that facilitates viewing of invoice.
 - 6. Select the **Anonymous login** check box to allow users to view invoices stored in Perceptive Content from Infor Lawson without logging in.
 - 7. Select the **Enabling Success Message** check box to enable adding of success messages to the **Notes** box of the Perceptive Content document.
 - 8. Select the **Enabling Error Messages** check box to enable adding of error messages to the **Notes** box of the Perceptive Content document.
 - 9. Click Save.

Configure Infor Lawson to use the connector

The Infor Lawson application needs to be configured to work with the Perceptive Connector for Infor Lawson APIA. To configure Infor Lawson, in the Infor Lawson settings, include the http://cservername:cports/ws/LawsonSyncOperations?wsdl URL. This exposes the webservice that enables the Infor Lawson connector to connect with the following web-methods.

- GetDocumentPage
- GetDocumentUrl
- UpdateInvoice

The Infor Lawson application requests parameter values for each web-method from Perceptive Connector for Infor Lawson APIA to access the webservice. The Perceptive Connector for Infor Lawson APIA replies to the webservice by providing the requested values. For details on the input and output <>, refer to Appendix A: Input and output code blocks for web-methods.

Appendix A: Input and output XML templates for web-methods

The Infor Lawson application calls each web-method in Perceptive Connector for Infor Lawson APIA using a synchronous operation. The Perceptive Connector for Infor Lawson APIA returns the values required by Infor Lawson.

GetDocumentPage

The following XML template displays the input parameters for GetDocumentPage.

The following parameters in this XML template are mandatory.

- Docld
- PageNo

The following XML template displays the output parameters that the Perceptive Connector for Infor Lawson APIA returns in response to the input parameters for GetDocumentPage.

GetDocumentUrl

The following XML template displays the input parameters for GetDocumentUrl.

The Docld parameter in this XML template is mandatory.

The following XML template displays the output parameters that the Perceptive Connector for Infor Lawson APIA returns in response to the input parameters for GetDocumentUrl.

UpdateInvoice

The following XML template displays the input parameters for UpdateInvoice.

```
<soapenv:Envelope xmlns:soapenv="http://schemas.xmlsoap.org/soap/envelope/"</pre>
xmlns:sync="http://sync.apef.perceptivesoftware.com/">
   <soapenv:Header/>
   <soapenv:Body>
      <sync:UpdateInvoice>
         <IncomingInvoiceHeader>
            <DocId></DocId>
            <FinanceGroup></FinanceGroup>
            <Company></Company>
            <Vendor></Vendor>
            <VendorDetails>
               <VendorName></VendorName>
               <VendorClass></VendorClass>
               <Addr1></Addr1>
               <Addr2></Addr2>
               <City></City>
               <State></State>
               <PostalCode></PostalCode>
            </VendorDetails>
            <Invoice></Invoice>
            <Suffix></Suffix>
            <CancelSequence></CancelSequence>
            <PurchaseOrderNumber></PurchaseOrderNumber>
            <PurchaseOrderRelease></PurchaseOrderRelease>
            <PurchaseOrderCode></PurchaseOrderCode>
            <InvoiceDate></InvoiceDate>
            <VoucherNumber></VoucherNumber>
            <InvoiceAmount></InvoiceAmount>
            <IncomeCode></IncomeCode>
            <CurrencyAmount></CurrencyAmount>
            <BatchNumber></BatchNumber>
            <DistributionDate></DistributionDate>
            <Description></Description>
            <InvoiceCurrency></InvoiceCurrency>
            <OverrideExchangeRate></OverrideExchangeRate>
            <HandlingCode></HandlingCode>
            <TaxAmount></TaxAmount>
            <TaxCode></TaxCode>
            <TaxableAmount></TaxableAmount>
            <VendorGroup></VendorGroup>
```

```
<RemitToLocation></RemitToLocation>
            <ProcessLevel></ProcessLevel>
            <BatchDate></BatchDate>
            <InvoiceGroup></InvoiceGroup>
            <TermCode></TermCode>
            <DueDate></DueDate>
            <AuthorityCode></AuthorityCode>
            <AccrualCode></AccrualCode>
            <InvoiceType></InvoiceType>
            <DiscountPercent></DiscountPercent>
            <DiscountDate></DiscountDate>
            <DiscountCode></DiscountCode>
            <InvoiceSource></InvoiceSource>
            <ReferenceType></ReferenceType>
            <CashCode></CashCode>
            <DistributionCode></DistributionCode>
            <CreationDate></CreationDate>
            <Operator></Operator>
         </IncomingInvoiceHeader>
      </sync:UpdateInvoice>
   </soapenv:Body>
</soapenv:Envelope>
```

The Docld parameter in this XML template is mandatory.

The following XML template displays the output parameters that the Perceptive Connector for Infor Lawson APIA returns in response to the input parameters for UpdateInvoice.