

TIME TO CONNECT



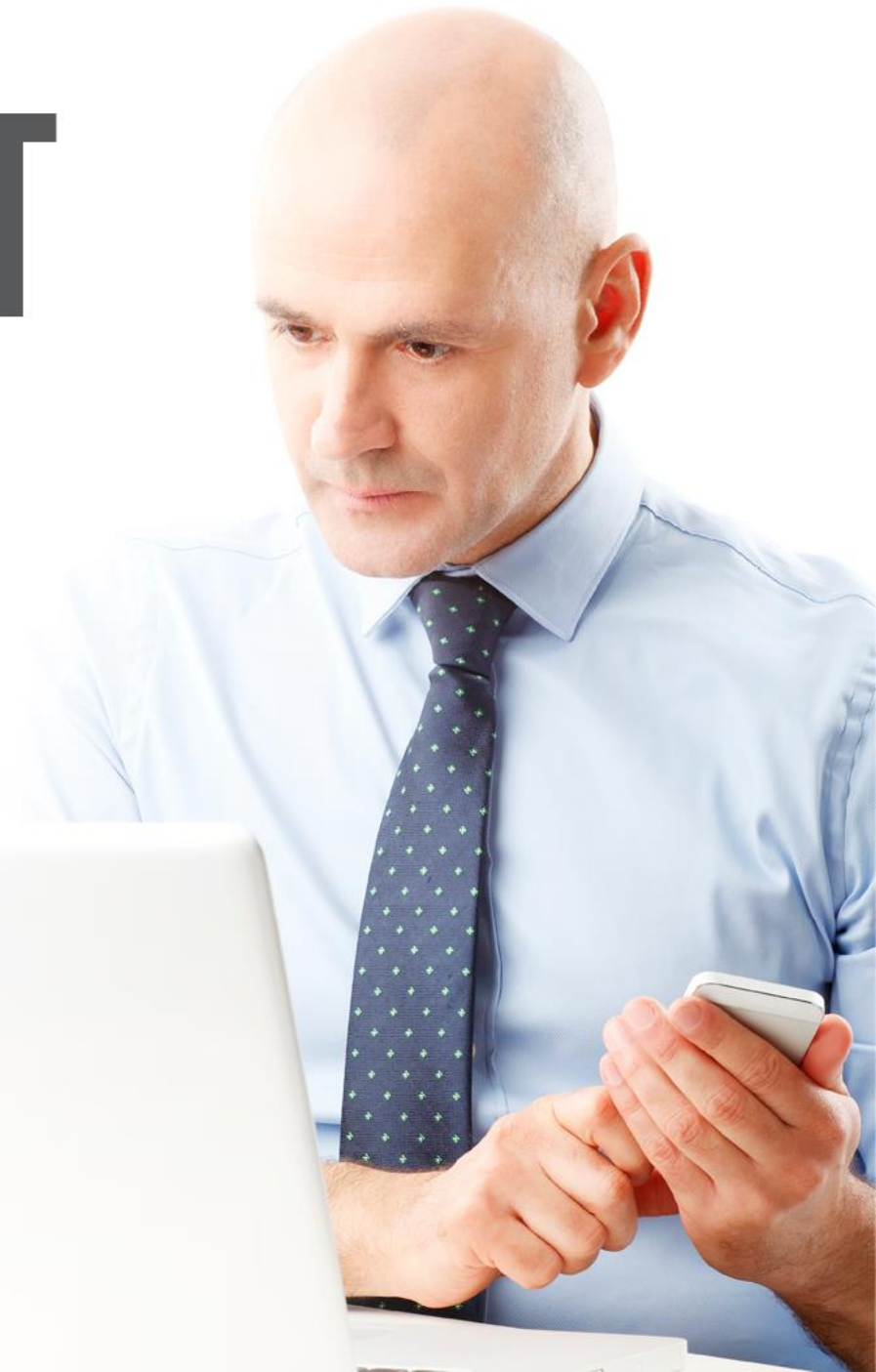
OATUG FORUM

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AR Invoice Print Solution using Bill Presentment Architecture and Minimizing Tech Customizations

Remember to complete your evaluation for this session within the app!



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11655

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About the speaker

- Oracle Associate ACE
- Over 20 years of experience working with Oracle EBS and Oracle technologies, focusing on implementing, designing, developing and maintaining of Oracle EBS since 2002.
- Specializing in Supply-Chain modules implementations and solutions since 2013
- Have worked 7 years with Oracle Corporation for the EBS product development
- Currently the Lead Oracle Apps Analyst at Siemens Corporation
- Board Member of Texas-Louisiana Oracle Applications & Technology User Group(TLOATUG)
- Active member in multiple OATUG Special Interest Groups(SIGs)

Agenda

- Challenges with traditional AR Invoice Print Customizations
- Bill Presentment Architecture(BPA) Overview
- BPA Process Flow
- BPA Framework including demo
- Benefits and Limitations of BPA
- Questions?

Challenges with traditional AR Invoice Print Customizations

- Any changes to the AR Invoice Print is time taking process, since changes are technical in nature.
- Higher cost for customizations
- Drill down functionality is not possible
- Can't have customer specific invoice format
- Can't have Transaction class specific template

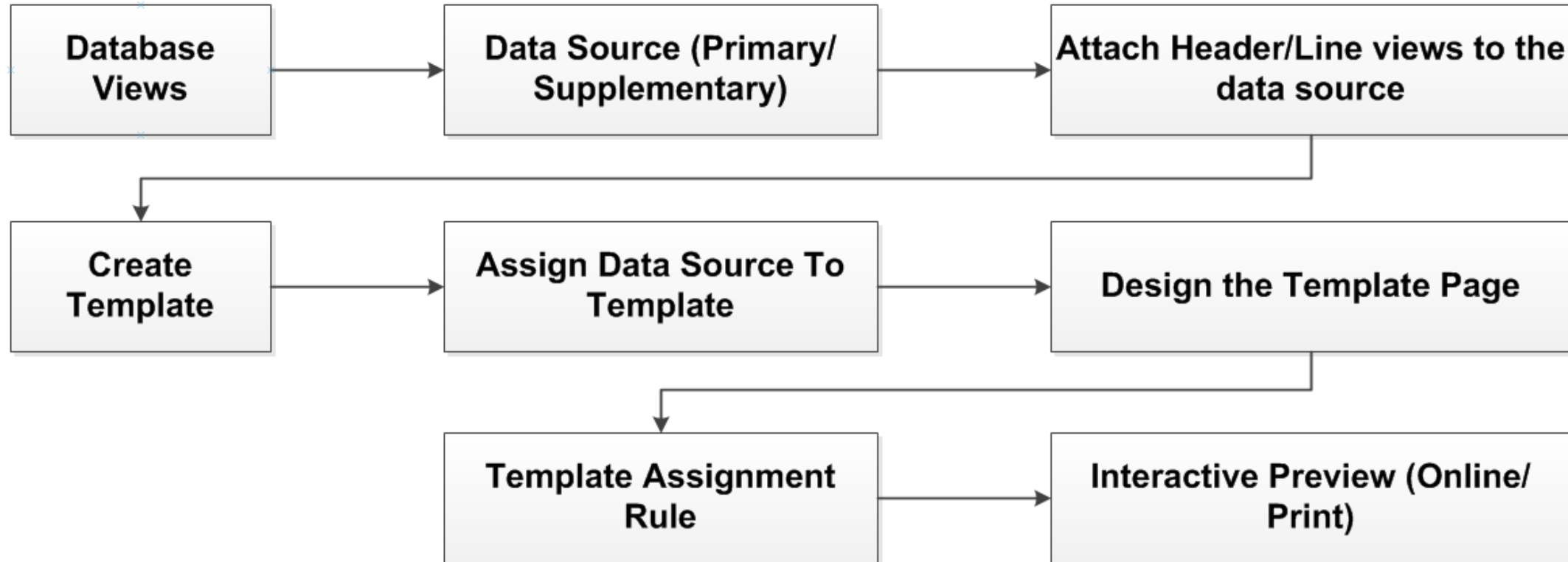
Bill Presentment Architecture(BPA) Overview

- Oracle Bill Presentment Architecture is a bill presentment tool that helps to create and present comprehensive and more-customer-focused invoices that increase the likelihood and timeliness of payment.
- BPA provides the architecture
 - To retrieve billing data from multiple data sources, including transaction flexfields and other data not interfaced and stored in Oracle Receivables
 - Provides template-based configuration of online and printed bills
 - Ability to select the content of the bill, choose the layout design, display parent billing lines and drilldown details
 - Setup the assignment of the billing templates by defining rules based on criteria
- BPA templates can be accomplished by an end user with minimal/no technical assistance

Bill Presentment Architecture(BPA) Overview

- Prior to EBS R12, The data source was restricted to the Receivables only. With R12, three more supplementary data sources are added – Order Management, Projects and Service Contracts
- BPA Framework internally uses OA Framework and XML Publisher functionality. It uses XML Publisher to generate PDF output (BPA generates xsl style sheet for the newly created templates)
- New button available for completed transactions in the Transaction Workbench to view online bills
- BPA comes with Bill Presentment Super User and Bill Presentment User seeded responsibilities.
- BPA provides all the invoice specific functionality needed for a full-fledged invoicing solution

BPA Process Flow



BPA Framework

- Create Template to present bills
- Template Assignment
- View Online Bills
- Data Retrieval
- External Template
- Print BPA Invoices

Create Template to present bills

- Provides extensive abilities & flexibility to design a bill that best suits customer needs
- Configure Bill Content & Layout
- Associate hyperlinks, images and messages to content items
- Specify Page setup
- Select flexible header and footer format for printed bills

Create Template to present bills

- Content Items – Logos and Custom messages

The screenshot displays the Oracle Bill Management interface. At the top, there is a navigation bar with the Oracle logo and 'Bill Management' text. Below this, there are tabs for 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The 'Content Items' section is active, showing a search form with fields for 'Item Name', 'Item Data Source Level' (set to 'None'), 'Item Data Source', and 'Item Type'. Below the search form is a 'Create' button and a table of existing content items.

Item Name	Item Data Source Level	Item Data Source	Item Type	Update	Delete
Company Logo	None	Custom	Image		
Default Message 1	None	Custom	Message		
Default Message 2	None	Custom	Message		
Default Message 3	None	Custom	Message		
VM ORCL Link	None	Custom	Message		
VM Payment Due message	None	Custom	Message		
oracle logo light	None	Custom	Image		

Create Template to present bills

- Content Items – Company Logo

The screenshot shows a web application interface for creating a content item. The navigation bar includes 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The current page is 'Content Items' under 'Template Management'. The form is titled 'Create Content Item' and includes a note: '* Indicates required field'. The form fields are: '* Item Name' (text input with 'oracle_logo_light'), 'Item Description' (text input with 'oracle_logo_light'), 'Display Label' (text input with 'oracle_logo_light'), 'Hyperlink Name' (dropdown menu), 'Item Type' (radio buttons for 'Image' and 'Message', with 'Image' selected), 'Image File Name' (text input with 'C:\Users\z003jdz\Downloads\oracl' and a 'Browse...' button), and 'Message Text' (text area). There are 'Cancel' and 'Apply' buttons at the top right and bottom right of the form area. The footer contains 'Privacy Statement', navigation links, and 'Copyright (c) 2008, Oracle. All rights reserved.'

- The same logo file to be copied under /OA_MEDIA/ directory

Create Template to present bills

- Content Items – Custom messages

Template Management | Template Assignment | Print Management | Configuration

Templates | **Content Items** | External Templates

Template Management: Content Items >

Create Content Item

* Indicates required field

* Item Name

Item Description

Display Label

Hyperlink Name

Item Type Image Message

Image File Name

Message Text

Template Management | Template Assignment | Print Management | Configuration | Home | Logout | Preferences | Help

Privacy Statement Copyright (c) 2006, Oracle. All rights reserved.

Create Template to present bills

- BPA Responsibility

Navigation: Template Management -> Templates -> Create

ORACLE Bill Management

Navigator Favorites Home Logout Preferences Help

Template Management | **Template Assignment** | Print Management | Configuration

Templates | Content Items | External Templates

Templates

Search

Note that the search is case insensitive

Template Name

Primary Data Source Oracle Receivables

Transaction Class

Supplementary Data Source

Tax Format

Format

Status Complete

Go Clear

Select Template: Mark as Complete Go Create

Select All Select None

Select	Template Name	Primary Data Source	Supplementary Data Source	Transaction Class	Tax Format	Template Format	Status	Update	Duplicate	Delete	Interactive Preview
<input type="checkbox"/>	Default Chargeback Template	Oracle Receivables	None	Chargeback	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Credit Memo Template	Oracle Receivables	None	Credit Memo	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Debit Memo Template	Oracle Receivables	None	Debit Memo	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Deposit Template	Oracle Receivables	None	Deposit	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Guarantee Template	Oracle Receivables	None	Guarantee	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Invoice Template	Oracle Receivables	None	Invoice	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Oracle Service Contracts Invoice Template	Oracle Receivables	Oracle Service Contracts	Invoice	Oracle Receivables Tax Printing Option		Complete				

Privacy Statement | Template Management | Template Assignment | Print Management | Configuration | Home | Logout | Preferences | Help

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Create Template to present bills

The screenshot shows the Oracle Bill Management interface. At the top, there's a navigation bar with 'ORACLE Bill Management' and links for 'Home', 'Logout', 'Preferences', and 'Help'. Below this is a sub-navigation bar with 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The 'Templates' section is active, showing a progress bar with five steps: 'General Information' (current), 'Primary Page Design', 'Details Page Design', 'Print Setup', and 'Preview'. The main form area is titled 'Update Template: General Information' and includes a legend '* Indicates required field'. The form fields are: '* Template Name' (text input: 'VM BPA Invoice Template'), 'Template Description' (text input: 'VM BPA Invoice Template'), 'Transaction Class' (dropdown: 'Invoice'), 'Primary Data Source' (text input: 'Oracle Receivables'), 'Supplementary Data Source' (dropdown: 'Customer Transaction Data Source'), and 'Tax Format' (dropdown: 'Oracle Receivables Tax Printing Option'). There are 'Cancel', 'Save', 'Next', and 'Finish' buttons at the bottom right of the form area. The footer contains 'Privacy Statement' and 'Copyright (c) 2006, Oracle. All rights reserved.'

- Define a template name for a specific transaction class, primary data source & supplementary data source as shown in above screenshot
Transaction Class -> Invoice / Credit Memo / Debit Memo / Chargeback / Deposit / Guarantee

Create Template to present bills

- Primary Page Design

Template Management | Template Assignment | Print Management | Configuration

Templates | Content Items | External Templates

General Information | **Primary Page Design** | Details Page Design | Print Setup | Preview

Create Template: Primary Page Design

Template VM BPA Invoice Template

Cancel Save Back Step 2 of 5 Next Finish

Show Icon Legend

Header [Table Icon] [Edit Icon] [Add Icon] [Remove Icon] [Close Icon]

Lines and Tax [Table Icon] [Edit Icon]

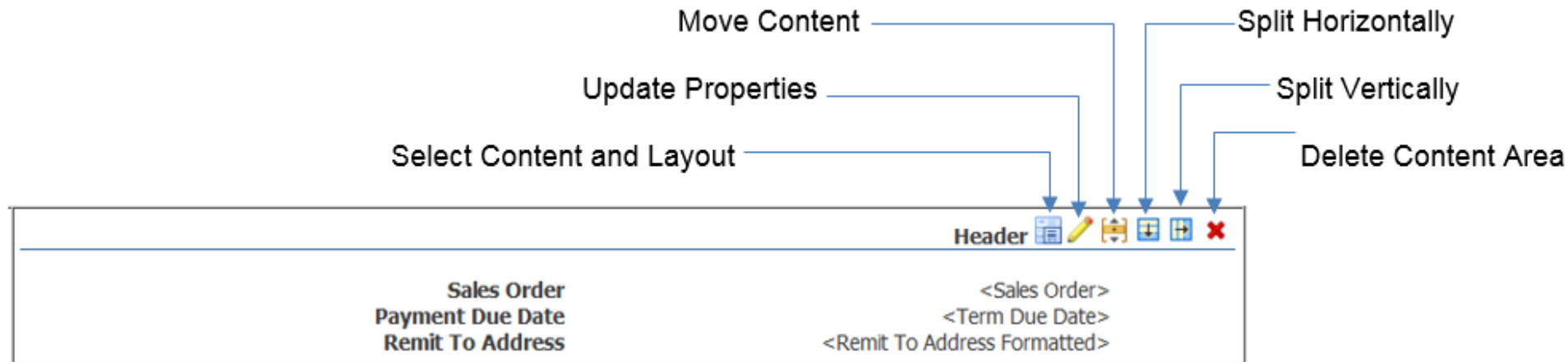
Footer [Table Icon] [Edit Icon] [Add Icon] [Remove Icon] [Close Icon]

Cancel Save Back Step 2 of 5 Next Finish

Privacy Statement | Template Management | Template Assignment | Print Management | Configuration | Home | Logout | Preferences | Help

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Create Template to present bills



- Using the icons, we can perform additional operations like splitting the content areas horizontally and vertically; moving swapping or duplicating the content items and layout; and updating properties like spacing, width and labels


































Create Template to present bills

Update Template: Primary Page Design

Template VM BPA Invoice Template

Cancel Save Back Step 2 of 5 Next Finish

Show Icon Legend

Logo Area    							
<oracle_loqo_light>		Header    		Header    		Invoice No <Transaction Number> Header    	
Ship To <Ship To Customer Name> <Ship To Address Formatted> <Ship To Country Name>				Bill To <Bill To Customer Name> <Bill To Address Formatted> <Bill To Country Name>			
Customer PO <Purchase Order Number> Invoice Date <Billing Date> Payment Terms <Term Name>				Sales Order <Sales Order> Remit To <Remit To Address Formatted>			
Ship Date <Shipping Date> Shipping Method <Shipping Via> FOB <Free on Board Point>				Header    			
Lines and Tax 							
Line	Description	Quantity Ordered	Quantity Shipped	UOM Code	Taxable	Unit Price	Line Total
<Line Number>	<Item Description>	<Quantity Ordered>	<Quantity>	<UOM Code>	<Line Tax Exists Flag>	<Unit Price>	<Extended Amount>
Footer    		Footer    		Total including Tax <Total Amount> Currency <Invoice Currency Code> Tax <Tax Amount> Total without Tax <Line Total Amount>			
				Due Date <Term Due Date> Outstanding Balance <Outstanding Balance>			
				Footer     <VM Payment Due message>			

Create Template to present bills

- Primary Page Design > Header > Select Content and Layout

The screenshot shows the 'Primary Page Design: Select Content and Layout' configuration page in the Oracle Billing System. The page is divided into two main sections: 'Content' and 'Layout'.

Content Section:

- Data Source View:** Oracle Receivables : Invoice Header View
- Available Content Items:** A list of items including Amount Adjusted, Amount Applied, Amount Credited, Amount in Dispute, Applied Transaction Number, Attachment, Attribute Category, Batch Source Name, Billing Date, Comments, Commitment End Date, Commitment Start Date, Context Reference, Contract Number, and Credit Memo Reason.
- Selected Content Items:** Bill To Customer Name, Bill To Address Formatted, and Bill To Country Name.
- Actions:** Move, Move All, Remove, and Remove All buttons are available between the two lists.
- Description:** Two text boxes for describing the content items.

Layout Section:

- Single Column (with item label):** Shows a table with columns for Item Label and data (XXXX).
- Double Column (with item label):** Shows a table with two columns for Item Label and data (XXXX).
- Mixed Column (with item label):** Shows a table with one column for Item Label and data (XXXX).
- Multiple Rows (with item label):** Shows a table with one column for Item Label and data (XXXX).
- Multiple Rows (without item label):** Shows a table with one column for data (XXXX).
- Single Row (with item label):** Shows a table with two columns for Item Label and data (XXXX).

The page includes navigation tabs at the top (Template Management, Template Assignment, Print Management, Configuration) and a breadcrumb trail (Primary Page Design > Header > Select Content and Layout). Buttons for 'Cancel' and 'Apply' are located at the bottom right of each section.

Create Template to present bills

- Logo Area

The screenshot shows the Oracle Billing System configuration interface. The top navigation bar includes 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. Below this, there are tabs for 'Templates', 'Content Items', and 'External Templates'. The main area is titled 'Primary Page Design: Select Content and Layout' and shows the configuration for the 'Logo Area' of the 'VM BPA Invoice Template'.

Content Section:

Select available content items to add to the content area. Use the reorder icons to specify the content order.

Data Source View: Custom : None [Go]

Available Content Items:

- Company Logo
- Default Message 1
- Default Message 2
- Default Message 3
- VM Payment Due message

Selected Content Items:

- oracle_logo_light

Move, Move All, Remove, Remove All buttons are available between the two lists.

Description: [Dropdown menu]

Layout Section:

Select a layout for the content chosen above. 'XXXX' represents data.

- Single Column (with item label)
Content Item Group Label
Item Label
XXXX
Item Label
XXXX
- Double Column (with item label)
Content Item Group Label
Item Label Item Label
XXXX XXXX
Item Label Item Label
XXXX XXXX
- Mixed Column (with item label)
Content Item Group Label
Item Label
XXXX
Item Label Item Label
XXXX XXXX
- Multiple Rows (with item label)
Content Item Group Label
Item Label XXXX
Item Label XXXX
Item Label XXXX
- Multiple Rows (without item label)
Content Item Group Label
XXXX
XXXX
XXXX
- Single Row (with item label)
Content Item Group Label
Item Label Item Label
XXXX XXXX

Create Template to present bills

- Primary Page Design -> Update Properties

[Template Management](#) | [Template Assignment](#) | [Print Management](#) | [Configuration](#)

[Templates](#) | [Content Items](#) | [External Templates](#)

General Information | **Primary Page Design** | Details Page Design | Print Setup | Preview

Primary Page Design: Update Properties

Template: VM BPA Invoice Template | Content Area: Header

* Indicates required field

Content Area Properties

Specify the space (in pixels) between the content area border and the content. Adjust width.

* Rename Content Area:

For design use only; not displayed on presented bill.

Space above: | Space to the left:
 Space below: | Space to the right:
 Width (%):

Content Item Properties

Update the display labels and printed column widths. For contents with hyperlink information, choose from the list of hyperlink names.

Content Item Group Display Label: | Label Style:

Item Name	Data Source View	Item Display Label	Item Style	Label Style	Hyperlink Name
Bill To Customer Name	Oracle Receivables : Invoice Header View	<input type="text" value="Bill To Customer Name"/>	<input type="text" value="Regular"/>	<input type="text" value="Regular"/>	<input type="text"/>
Bill To Address Formatted	Oracle Receivables : Invoice Header View	<input type="text" value="Bill To Address Formatted"/>	<input type="text" value="Regular"/>	<input type="text" value="Regular"/>	<input type="text"/>
Bill To Country Name	Oracle Receivables : Invoice Header View	<input type="text" value="Bill To Country Name"/>	<input type="text" value="Regular"/>	<input type="text" value="Regular"/>	<input type="text"/>

Create Template to present bills

[Template Management](#) | [Template Assignment](#) | [Print Management](#) | [Configuration](#)
[Templates](#) | [Content Items](#) | [External Templates](#)

General Information | **Primary Page Design** | Details Page Design | Print Setup | Preview

Primary Page Design: Select Content and Layout

Template: VM BPA Invoice Template Content Area: Header [Cancel](#) [Apply](#)

Content

Select available content items to add to the content area. Use the reorder icons to specify the content order.

Data Source View: [Go](#)

Available Content Items	Selected Content Items
Amount Adjusted	Ship To Customer Name
Amount Applied	Ship To Address Formatted
Amount Credited	Ship To Country Name
Amount in Dispute	
Applied Transaction Number	
Attachment	
Attribute Category	
Batch Source Name	
Bill To Address Formatted	
Bill To Country Name	
Bill To Customer Name	
Billing Date	
Comments	
Commitment End Date	
Commitment Start Date	

[Move](#) [Move All](#) [Remove](#) [Remove All](#)

Description: Description:

Layout

Select a layout for the content chosen above. 'XXXX' represents data.

Single Column (with item label)
 Double Column (with item label)
 Mixed Column (with item label)

Multiple Rows (with item label)
 Multiple Rows (without item label)
 Single Row (with item label)

Content Item Group Label		Content Item Group Label		Content Item Group Label	
Item Label	XXXX	Item Label	Item Label	Item Label	XXXX
Item Label	XXXX	Item Label	XXXX	Item Label	Item Label
Item Label	XXXX	Item Label	Item Label	Item Label	XXXX

[Cancel](#) [Apply](#)

Create Template to present bills

Template Management | Template Assignment | Print Management | Configuration

Templates | Content Items | External Templates

General Information | Primary Page Design | Details Page Design | Print Setup | Preview

Primary Page Design: Select Content and Layout

Template VM BPA Invoice Template | Content Area Header

Cancel Apply

Content

Select available content items to add to the content area. Use the reorder icons to specify the content order.

Data Source View Oracle Receivables : Invoice Header View Go

Available Content Items

- Amount Adjusted
- Amount Applied
- Amount Credited
- Amount in Dispute
- Applied Transaction Number
- Attachment
- Attribute Category
- Batch Source Name
- Bill To Address Formatted
- Bill To Country Name
- Bill To Customer Name
- Comments
- Commitment End Date
- Commitment Start Date
- Context Reference

Selected Content Items

- Purchase Order Number
- Billing Date
- Term Name

Move Move All Remove Remove All

Description

Layout

Select a layout for the content chosen above. 'XXXX' represents data.

Single Column (with item label)

Content Item Group Label

Item Label
XXXX
Item Label
XXXX

Double Column (with item label)

Content Item Group Label

Item Label	Item Label
XXXX	XXXX
Item Label	Item Label
XXXX	XXXX

Mixed Column (with item label)

Content Item Group Label

Item Label	
XXXX	
Item Label	Item Label
XXXX	XXXX

Multiple Rows (with item label)

Content Item Group Label

Item Label	XXXX
Item Label	XXXX
Item Label	XXXX

Multiple Rows (without item label)

Content Item Group Label

XXXX
XXXX
XXXX

Single Row (with item label)

Content Item Group Label

Item Label	Item Label
XXXX	XXXX

Cancel Apply

Create Template to present bills

- Line Content - Primary Page Design > Lines & Tax > Select Content

The screenshot shows the Oracle Billing Lines configuration interface. At the top, there are navigation tabs: Template Management, Template Assignment, Print Management, and Configuration. Below these are sub-tabs: Templates, Content Items, and External Templates. A progress bar indicates the current step is 'Primary Page Design', with other steps being 'General Information', 'Details Page Design', 'Print Setup', and 'Preview'. The main header shows 'Primary Page Design: Select Content' and 'Template VM BPA Invoice Template'. The 'Content Area' is set to 'Lines and Tax'. There are 'Cancel' and 'Apply' buttons in the top right.

Billing Lines

Select available items. Content appears in a tabular layout. Use reorder icons to specify column order.

Available Content Items

Data Source: Oracle Receivables

Gross Extended Amount	
Gross Unit Selling Price	
Interface Line Context	
Legal Justification Text	
Line Type	
Quantity Credited	
Reason Code	
Sales Order	
Sales Order Date	
Sales Order Line	
Tax Exempt Flag	
Tax Exempt Number	
Tax Exempt Reason Code	
Transaction ID	
Transaction Line ID	

Selected Content Items

Line Number	
Item Description	
Quantity Ordered	
Quantity	
UOM Code	
Line Tax Exists Flag	
Unit Price	
Extended Amount	

Move, Move All, Remove, Remove All

Description

Cancel Apply

Create Template to present bills

- Footer Content - Primary Page Design > Footer > Select Content

The screenshot shows the 'Select Content and Layout' configuration page for a 'VM BPA Invoice Template'. The page is divided into several sections:

- Navigation:** Includes tabs for 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. Below these are sub-tabs for 'General Information', 'Primary Page Design' (active), 'Details Page Design', 'Print Setup', and 'Preview'.
- Page Design:** Shows 'Primary Page Design: Select Content and Layout' for the 'VM BPA Invoice Template' in the 'Footer' content area. 'Cancel' and 'Apply' buttons are present.
- Content Section:**
 - Instruction: 'Select available content items to add to the content area. Use the reorder icons to specify the content order.'
 - 'Data Source View' is set to 'Oracle Receivables : Invoice Header View'.
 - Available Content Items:** A list of items including Amount Adjusted, Amount Applied, Amount Credited, Amount in Dispute, Applied Transaction Number, Attachment, Attribute Category, Batch Source Name, Bill To Address Formatted, Bill To Country Name, Bill To Customer Name, Billing Date, Comments, Commitment End Date, and Commitment Start Date.
 - Selected Content Items:** A list of items including Total Amount, Invoice Currency Code, Tax Amount, and Line Total Amount.
 - Buttons for 'Move', 'Move All', 'Remove', and 'Remove All' are located between the two lists.
 - 'Description' fields are provided for both available and selected items.
- Layout Section:**
 - Instruction: 'Select a layout for the content chosen above. 'XXXX' represents data.'
 - Options for layout configurations:
 - Single Column (with item label): Shows a table with 'Content Item Group Label', 'Item Label', and 'XXXX'.
 - Double Column (with item label): Shows a table with 'Content Item Group Label', 'Item Label', and 'Item Label' columns.
 - Mixed Column (with item label): Shows a table with 'Content Item Group Label', 'Item Label', and 'Item Label' columns.
 - Multiple Rows (with item label): Shows a table with 'Content Item Group Label', 'Item Label', and 'Item Label' columns.
 - Multiple Rows (without item label): Shows a table with 'Content Item Group Label' and 'Item Label' columns.
 - Single Row (with item label): Shows a table with 'Content Item Group Label', 'Item Label', and 'Item Label' columns.

Create Template to present bills

- Footer Content - Primary Page Design > Footer > Select Content (Custom Message)

The screenshot displays the 'Template Management' interface for the 'VM BPA Invoice Template'. The 'Content' section is active, showing a list of available content items on the left and a selected item 'VM Payment Due message' on the right. The 'Layout' section below shows various layout options for the content.

Content Section:

Select available content items to add to the content area. Use the reorder icons to specify the content order.

Data Source View: Custom : None [Go]

Available Content Items:

- Amount Adjusted
- Amount Applied
- Amount Credited
- Amount in Dispute
- Applied Transaction Number
- Attachment
- Attribute Category
- Batch Source Name
- Bill To Address Formatted
- Bill To Country Name
- Bill To Customer Name
- Billing Date
- Comments
- Commitment End Date
- Commitment Start Date

Selected Content Items:

- VM Payment Due message

Layout Section:

Select a layout for the content chosen above. 'XXXX' represents data.

Single Column (with item label)

Content Item Group Label

Item Label
XXXX
Item Label
XXXX

Double Column (with item label)

Content Item Group Label

Item Label	Item Label
XXXX	XXXX
Item Label	Item Label
XXXX	XXXX

Mixed Column (with item label)

Content Item Group Label

Item Label	XXXX
Item Label	XXXX

Multiple Rows (with item label)

Content Item Group Label

Item Label	XXXX
Item Label	XXXX
Item Label	XXXX

Multiple Rows (without item label)

Content Item Group Label

XXXX
XXXX
XXXX

Single Row (with item label)

Content Item Group Label

Item Label	Item Label
XXXX	XXXX

Create Template to present bills

- Primary Page Design - Final Layout

Once the content and layout for each section is selected, Primary Page Layout will appear as given below

Update Template: Primary Page Design Template VM BPA Invoice Template Cancel Save Back Step 2 of 5 Next Finish

[Show Icon Legend](#)

Logo Area							
Header		Header		Invoice No <Transaction Number>			
Ship To <Ship To Customer Name> <Ship To Address Formatted> <Ship To Country Name>		Bill To <Bill To Customer Name> <Bill To Address Formatted> <Bill To Country Name>		Header			
Customer PO Invoice Date Payment Terms		<Purchase Order Number> <Billing Date> <Term Name>		Sales Order Remit To		<Sales Order> <Remit To Address Formatted>	
Ship Date Shipping Method FOB		<Shipping Date> <Shipping Via> <Free on Board Point>		Header			
Line	Description	Quantity Ordered	Quantity Shipped	UOM Code	Taxable	Unit Price	Line Total
<Line Number>	<Item Description>	<Quantity Ordered>	<Quantity>	<UOM Code>	<Line Tax Exists Flag>	<Unit Price>	<Extended Amount>
Footer		Footer		Total including Tax <Total Amount> Currency <Invoice Currency Code> Tax <Tax Amount> Total without Tax <Line Total Amount>			
Footer		Footer		Due Date <Term Due Date> Outstanding Balance <Outstanding Balance>			
Footer		Footer		<VM Payment Due message>			

Create Template to present bills

- **Details Page Design:**

The screenshot shows the Oracle Bill Management interface for updating a template. The top navigation bar includes the Oracle logo, 'Bill Management', and links for Navigator, Favorites, Home, Logout, Preferences, and Help. Below this is a sub-navigation bar with 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The main content area is titled 'Update Template: Details Page Design' and shows the selected template as 'VM BPA Invoice Template'. A message states: 'No drilldown items are currently defined for the supplementary data source you selected.' The interface includes a progress bar with five steps: General Information, Primary Page Design, Details Page Design (current), Print Setup, and Preview. At the bottom of the content area, there are 'Cancel', 'Save', 'Back', 'Next', and 'Finish' buttons, with 'Step 3 of 5' displayed. A footer bar contains a 'Privacy Statement' link and copyright information: 'Copyright (c) 2006, Oracle. All rights reserved.'

Since we associated a Supplementary Data Source to this template, Presented with an option to modify the Details Page Design.

This section is similar to the Primary Page Design, except that the data source is our custom view. Clicking on the content icon allows you to pick what items you want to use in the template.

Create Template to present bills

- Printer Setup

Template Management | Template Assignment | Print Management | Configuration

Templates | Content Items | External Templates

General Information | Primary Page Design | Details Page Design | **Print Setup** | Preview

Update Template: Print Setup

Template **VM BPA Invoice Template** Cancel Save Back Step 4 of 5 Next Finish

Enter page dimensions in whole numbers or decimals.
* Indicates required field

Page Setup

Page Setup	Letter	* Right Margin	0.5
Unit of Measure	Inches	* Left Margin	0.5
* Paper Height	11	Page Number	Bottom Right
* Paper Width	8.5	Font	Arial
* Top Margin	0.5	Font Size	10pt
* Bottom Margin	0.5		

Header Options

Header Display Primary Header first page
 Primary Header every page
 Primary Header first page, Secondary Header all other pages

Footer Options

Footer Display Primary Footer last page only
 Primary Footer every page

Create Template to present bills

- Completing the template
 - Incomplete allows modifications
 - Complete allows assignment

Template Management | **Template Assignment** | Print Management | Configuration

[Templates](#) | [Content Items](#) | [External Templates](#)

Templates

Search

Note that the search is case insensitive

Template Name

Primary Data Source

Transaction Class

Supplementary Data Source

Tax Format

Format

Status

Select Template: |

[Select All](#) | [Select None](#)

Select	Template Name	Primary Data Source	Supplementary Data Source	Transaction Class	Tax Format	Template Format	Status	Update	Duplicate	Delete	Interactive Preview
<input type="checkbox"/>	Default Invoice Template	Oracle Receivables	None	Invoice	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Oracle Service Contracts Invoice Template	Oracle Receivables	Oracle Service Contracts	Invoice	Oracle Receivables Tax Printing Option		Complete				
<input checked="" type="checkbox"/>	VM BPA Invoice Template	Oracle Receivables	Customer Transaction Data Source	Invoice	Oracle Receivables Tax Printing Option		Incomplete				

Template Assignment

- Define the criteria to use your template(s)
- Consists of
 - Defining Rule
 - Assigning Template to the Rule
- BPA has seeded default rule that contains no criteria. The seeded default template for specific transaction class will be used if no other rule is matched
- If multiple rules are matched for a particular transaction, then it uses rule order to determine priority.

The screenshot shows the 'Template Assignment' web interface. At the top, there are navigation tabs: 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. Below these, there are sub-tabs: 'Assignment Rules' and 'Assigned Templates'. A confirmation message states: 'Confirmation Rule VM TEST has been deleted.' The main section is titled 'Assignment Rules' and contains a search area with the following fields: 'Rule Name' (text input), 'Primary Data Source' (dropdown menu with 'Oracle Receivables' selected), and 'Supplementary Data Source' (dropdown menu). There are 'Go' and 'Clear' buttons. Below the search area, there is a 'Create' button and a table of rules. The table has columns for 'Rule Name', 'Primary Data Source', 'Supplementary Data Source', 'Update', and 'Delete'. The 'Update' column contains an edit icon, and the 'Delete' column contains a trash icon.

Rule Name	Primary Data Source	Supplementary Data Source	Update	Delete
Default Rule	Oracle Receivables	None		
VM Caterpillar Template Rule	Oracle Receivables	Customer Transaction Data Source		

Template Assignment

- Rule Order

Template Management | **Template Assignment** | Print Management | Configuration

Assignment Rules | Assigned Templates

Template Assignment: Assignment Rules >

Reorder Assignment Rules

Primary Data Source **Oracle Receivables** Cancel Save Apply

For each supplementary data source, change the order in which rules are applied for template assignment. Rules are applied from top to bottom.
✔ **TIP** Click Save after reordering rules before you choose another supplementary data source.

Online Bill	Printed Bill
Available Rules Supplementary Data Source: Customer Transaction Data Source Go VM Caterpillar Template Rule ⓧ Ⓜ Ⓝ Ⓜ ⓧ	Available Rules Supplementary Data Source: Customer Transaction Data Source Go VM Caterpillar Template Rule ⓧ Ⓜ Ⓝ Ⓜ ⓧ
Description	Description

Cancel Save Apply

Template Assignment

- Template Assignment -> Assignment Rules -> Criteria

Template Management | Template Assignment | Print Management | Configuration

Assignment Rules | Assigned Templates

Template Assignment: Assignment Rules >

Update Assignment Rule: VM Caterpillar Template Rule

* Indicates required field

Cancel Apply

* Rule Name VM Caterpillar Template Rule

Rule Description VM Caterpillar Template Rule

Primary Data Source Oracle Receivables

Supplementary Data Source Customer Transaction Data Source

Attribute Matching Criteria

Select attributes and enter matching criteria.

Match All attributes
 Any attributes

Attribute Name	Condition	Value	Remove
Bill To Customer Name	contains	CATERPILLAR GLOBAL MINING	

Add Attribute Bill To Customer Name Go

Template

Assign templates to the rule, starting with the earliest bill creation dates. Bill creation dates cannot overlap.

Invoice Credit Memo Debit Memo

Online Bill

Template Name	Bill Creation From Date	Bill Creation To Date	Remove
VM BPA Invoice Template	01-Jan-2020 <small>(example: 19-Apr-2020)</small>		

Add Another Row

Duplicate Assignment for Printed Bill

- Primary & Supplementary data sources should match with template sources

View Online Bills

- Internal users and external customers can view bills online using Oracle Receivables, Oracle iReceivables, Oracle Collections or other calling application
- When a user selects a transaction number, the assignment engine in BPA determines which template to use to display the bill.
- When viewing a bill, all the features and functionality of BPA's Interactive Preview, such as drilldown to transaction details are available to the user.
- Allows you to preview the template using any AR Transaction

View Online Bills

- Navigate to Template Management section and select the template to interactively preview. Click on Interactive preview icon

Template Management | Template Assignment | Print Management | Configuration

Templates | Content Items | External Templates

Templates

Search

Note that the search is case insensitive

Template Name

Primary Data Source

Transaction Class

Supplementary Data Source

Tax Format

Format

Status

Select Template: |

[Select All](#) | [Select None](#)

Select	Template Name	Primary Data Source	Supplementary Data Source	Transaction Class	Tax Format	Template Format	Status	Update	Duplicate	Delete	Interactive Preview
<input type="checkbox"/>	Default Invoice Template	Oracle Receivables	None	Invoice	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	Default Oracle Service Contracts Invoice Template	Oracle Receivables	Oracle Service Contracts	Invoice	Oracle Receivables Tax Printing Option		Complete				
<input type="checkbox"/>	VM BPA Invoice Template	Oracle Receivables	Customer Transaction Data Source	Invoice	Oracle Receivables Tax Printing Option		Complete				

View Online Bills

- Select the transaction number and click on Online Preview icon

Template Management | **Template Assignment** | Print Management | Configuration

Templates | Content Items | External Templates

Template Management: Templates >

Interactive Preview

Template VM BPA Invoice Template Cancel

Search

Search for a transaction to preview the template.

Operating Unit

Transaction Number Low

Transaction Number High

Customer Name

Transaction Class **Invoice**

Primary Data Source **Oracle Receivables**

Supplementary Data Source **Customer Transaction Data Source**

Display All Transactions

Select Transactions:

[Select All](#) | [Select None](#)

Select	Transaction Number	Operating Unit	Transaction Class	Customer Name	Online Preview	Print Preview
<input type="checkbox"/>	115741	TXO	Invoice	CATERPILLAR GLOBAL MINING LLC TX		

Cancel

View Online Bills

ORACLE

Ship To
CATERPILLAR GLOBAL MINING LLC TX
3501 South FM 1417
DENISON, TX 75020-8904
United States

Bill To
CATERPILLAR GLOBAL MINING LLC TX
ACCOUNTS PAYABLE - LD235
100 NE ADAMS ST.
PEORIA, IL 61630
United States

Invoice No 115741

Customer PO 5500050622
Invoice Date 22-Jan-2020
Payment Terms NET 60

Ship Date 22-Jan-2020
Shipping Method XPO
FOB

Sales Order 10078946
Remit To TEXAS HYDRAULICS, INC.
PO BOX 645447
PITTSBURGH, PA 15264-5252

Line	Description	Quantity Ordered	Quantity Shipped	UOM Code	Taxable	Unit Price	Line Total
1	HYDRAULIC CYLINDER Z50005140CL	2.00	2	EA	No	1427.00	2854.00
2	HYDRAULIC CYLINDER Z50005140CL	2.00	2	EA	No	1427.00	2854.00

Total including Tax 5708.00
Currency USD
Tax 0.00
Total without Tax 5708.00
Due Date 22-Mar-2020
Outstanding Balance 5708.00

Amounts not paid by the Payment Due Date will be assessed interest of 1% per month or the maximum allowable by applicable law.

- Online previews will have full functionality of any hyperlinks and drilldown. Printed previews will be in PDF format.

Printed Bill

ORACLE

Ship To		Bill To		Invoice No	115741
CATERPILLAR GLOBAL MINING LLC TX 3501 South FM 1417 DENISON, TX 75020-8904 United States		CATERPILLAR GLOBAL MINING LLC TX ACCOUNTS PAYABLE - LD235 100 NE ADAMS ST. PEORIA, IL 61630 United States			
Customer PO	5500050822	Sales Order	10078948		
Invoice Date	22-Jan-2020	Remit To	TEXAS HYDRAULICS, INC. PO BOX 645447 PITTSBURGH, PA 15264-5252		
Payment Terms	NET 60				
Ship Date	22-Jan-2020				
Shipping Method	XPO				
	FOB				

Line	Description	Quantity Ordered	Quantity Shipped	Taxable	Unit Price	Line Total
1	HYDRAULIC CYLINDER Z50005140CL	2.00	2	No	1427.00	2854.00
2	HYDRAULIC CYLINDER Z50005140CL	2.00	2	No	1427.00	2854.00

Total including Tax	5708.00
Currency	USD
Tax	0.00
Total without Tax	5708.00
Due Date	22-Mar-2020
Outstanding	5708.00
Balance	

Amounts not paid by the Payment Due Date will be assessed interest of 1% per month or the maximum allowable by applicable law.

Data Retrieval

- Data Sources - Primary and Supplementary
- Primary Data Sources are seeded data sources only.

Template Management | Template Assignment | Print Management | Configuration

Data Sources | Hyperlinks

Data Sources

Search

Note that the search is case insensitive

Data Source Name

Data Source Description

Data Source Level Primary ▾

Oracle Receivables Interface Context 🔍

Status ▾

Select Data Source: Mark as Enabled ▾

[Select All](#) | [Select None](#)

Select	Data Source Name ▲	Data Source Description	Data Source Level	Oracle Receivables Interface Context	Status	Update	Synchronize	Views	Delete
<input type="checkbox"/>	Oracle Receivables	Oracle Receivables	Primary		Enabled				
<input type="checkbox"/>	Oracle Receivables Balance Forward	Oracle Receivables Balance Forward	Primary		Enabled				

Data Retrieval

- Secondary Data Sources – Can be seeded or custom

Template Management | Template Assignment | Print Management | Configuration

Data Sources | Hyperlinks

Data Sources

Search

Note that the search is case insensitive

Data Source Name

Data Source Description

Data Source Level

Oracle Receivables Interface Context

Status

Select Data Source:

[Select All](#) | [Select None](#)

Select	Data Source Name	Data Source Description	Data Source Level	Oracle Receivables Interface Context	Status	Update	Synchronize	Views	Delete
<input type="checkbox"/>	Customer Transaction Data Source	Customer Transaction Data Source	Supplementary	Accrue Finance Charges	Enabled				
<input type="checkbox"/>	Oracle Order Management	Oracle Order Management	Supplementary	ORDER ENTRY	Disabled				
<input type="checkbox"/>	Oracle Service Contracts	Oracle Service Contracts	Supplementary	OKS CONTRACTS	Disabled				
<input type="checkbox"/>	VM TEST	VM TEST	Supplementary	INTERCOMPANY	Disabled				

Data Retrieval

- Database views
- BPA views can be three display levels
 - Header & Footer
 - Lines & Tax
 - Details Page
- Seeded database views are ARBPA_CUSTOMER_TRX_HEADER & ARBPA_CUSTOMER_TRX_LINE
- Only database views prefixed with ARBPA_ will be recognized by BPA
- Custom database view(s) must start with ARBPA_xxxx. It must be registered in Oracle Receivables and associated to an interface context.

External Template

- External templates can be PDF or RTF template file.
- Not available for interactive preview
- External templates cannot be modified in BPA. External templates are for printed invoices only and cannot be assigned to Online print.
- Are language specific
- BPA has a fuzzy mapping feature that automatically maps the external field to BPA content item based on the name. Unmapped items will display null values
- External templates can be assigned in template assignment

External Template

- Uploading External Template

Template Management | Template Assignment | Print Management | Configuration

Templates | Content Items | External Templates

General Information | File Upload | Item Mapping | Review

Update External Template: General Information

* Indicates required field

Cancel Save Step 1 of 4 Next Finish

* Template Name VM External Template Test

Template Description VM External Template Test

Transaction Class Invoice

Primary Data Source Oracle Receivables

Supplementary Data Source Customer Transaction Data Source

Template Type RTF Template

Template Management | Template Assignment | Print Management | Configuration

Templates | Content Items | External Templates

General Information | File Upload | Item Mapping | Review

Upload External Template: File Upload

Template VM External Template Test

Cancel Save Back Step 2 of 4 Next Finish

Add File

File Name	Language	Update	Remove
XXTHIMIDXMLRAXINV.rtf	American English		

Cancel Save Back Step 2 of 4 Next Finish

External Template

- External Template: Item Mapping

Template Management | Template Assignment | Print Management | Configuration

Templates | Content Items | External Templates

General Information | File Upload | Item Mapping | Review

Upload External Template: Review

Template VM External Template Test

Cancel Back Step 4 of 4 Finish

Header and Footer

Previous 1-10 of 39 Next 10

Number	Field Name	Data Source View	Item Code	Item Name
1	REMIT_ADDRESS1	Customer Transaction Data Source : Customer Header View	BillToAddress1	Bill To Address1
2	REMIT_ADDRESS2	Customer Transaction Data Source : Customer Header View	BillToAddress2	Bill To Address2
3	REMIT_ADDRESS3	Customer Transaction Data Source : Customer Header View	BillToAddress3	Bill To Address3
4	REMIT_ADDRESS4	Customer Transaction Data Source : Customer Header View	BillToAddress4	Bill To Address4
5	REMIT_CITY	Customer Transaction Data Source : Customer Header View	BillToCity	Bill To City
6	REMIT_STATE	Customer Transaction Data Source : Customer Header View	BillToState	Bill To State
7	REMIT_POSTAL_CODE	Customer Transaction Data Source : Customer Header View	BillToPostalCode	Bill To Postal Code
8	TRX_TYPE_NAME	Oracle Receivables : Invoice Header View	CustTrxTypeName	Transaction Type Name
9	TRX_NUMBER	Oracle Receivables : Invoice Header View	TrxNumber	Transaction Number
10	TRX_DATE	Oracle Receivables : Invoice Header View	TrxDate	Billing Date

Previous 1-10 of 39 Next 10

Lines and Tax

Previous 1-10 of 18 Next 8

Number	Field Name	Data Source View	Item Code	Item Name
1	CP_LEGAL_ADDR1	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
2	CP_LEGAL_ADDR2	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
3	CP_LEGAL_ADDR3	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
4	CP_LEGAL_ADDR4	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
5	CP_LEGAL_ADDR6	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
6	CP_LEGAL_ADDR8	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
7	CP_LEGAL_ADDR9	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
8	BILL_COUNTRY_DESCRIPTION	Oracle Receivables : Billing Lines	Description	Item Description
9	SHIP_COUNTRY_DESCRIPTION	Oracle Receivables : Billing Lines	Description	Item Description
10	INTERFACE_HEADER_ATTRIBUTE1	Oracle Receivables : Billing Lines	InterfaceLineContext	Interface Line Context

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Print BPA Invoices

- Generate Stylesheet for BPA Templates concurrent program

Must run the program in order to be able to print invoices. This program generates an XSL style sheet (.xsl-fo file format) for all seeded templates. XML Publisher uses the stylesheet to format templates for printing.

For new templates, it automatically generates XSL style sheet when the template is marked as Complete

The screenshot shows a web application interface for defining a schedule request. At the top, there are navigation tabs: 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. Below these are sub-tabs: 'Submit Print Request', 'View Print Request', and 'Page Setup'. A progress bar indicates the current step is 'Define', with 'Review' as the next step. The main content area is titled 'Schedule Request: Define' and includes a note: '* Indicates required field'. There are three radio buttons: 'New Request' (selected), 'Copy Request', and 'Copy Request'. Below these are two text input fields: 'Program Name' (containing 'Generate Stylesheet for BPA Templates') and 'Request Name'. A note below the 'Request Name' field states: 'The name can later be used to search for this request'. Below the input fields are several tabs: 'NLS Settings', 'Parameters', 'Notification', 'Print Options', 'Delivery Options', and 'ScheduleOptions'. At the bottom, there is a 'Template Name' input field. On the right side, there are two sets of buttons: 'Manage Schedule', 'Cancel', and 'Continue'.

Print BPA Invoices

- BPA provides the flexibility to print a single transaction or batch of transactions through the print management tab or alternatively by launching the BPA transaction print program from Forms based app(SRS Form)
- Concurrent Program - BPA Transaction Print Program

The screenshot shows a 'Submit Request' dialog box for the 'BPA Transaction Print Program'. The dialog is titled 'Submit Request' and has a 'Copy...' button. The main area is divided into two sections: 'Run this Request...' and 'Parameters'.

Run this Request...

- Name: BPA Transaction Print Program
- Operating Unit: TXO
- Parameters: Parameters
- Language: Language

At these Times...

- Run the Job: Run the Job

Upon Completion...

- Layout: Layout
- Notify: Notify
- Print to: Print to

Parameters

- Operating Unit: TXO
- Transactions to Print: All
- Order By: Transaction Number
- Batch: Batch
- Transaction Class: Transaction Class
- Transaction Type: Transaction Type
- Customer Class: Customer Class
- (From) Bill To Customer Name: (From) Bill To Customer Name
- (To) Bill To Customer Name: (To) Bill To Customer Name
- (Low) Bill To Customer Number: (Low) Bill To Customer Number
- (High) Bill To Customer Number: (High) Bill To Customer Number
- (Low) Transaction Number: 115741
- (High) Transaction Number: 115741
- Invoice : TEX INVOICE
- Invoice : TEX INVOICE
- Installment Number: Installment Number
- (Low) Print Date: (Low) Print Date
- (High) Print Date: (High) Print Date

Buttons: OK, Cancel, Clear, Help

Print BPA Invoices

- When the 'BPA Transaction Print Program' is submitted, it launches one or more child programs depending on the number of invoices requested for printing. The child program generates one PDF file for each group of invoices.

The screenshot shows the Oracle Print Management Configuration page for 'Schedule Request: Define'. The page has a navigation bar with tabs for 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. Below the navigation bar is a progress indicator with 'Define' and 'Review' steps. The main content area includes a 'Schedule Request: Define' section with a note '* Indicates required field' and buttons for 'Manage Schedule', 'Cancel', and 'Continue'. There are radio buttons for 'New Request' (selected) and 'Copy Request'. A 'Program Name' dropdown is set to 'BPA Transaction Print Program', and a 'Request Name' text box is empty. Below this is a sub-tabbed interface with tabs for 'NLS Settings', 'Parameters', 'Notification', 'Print Options', 'Delivery Options', and 'ScheduleOptions'. The 'Burst Output' checkbox is unchecked, with a description: 'Burst output option splits the output of this request for individual publishing and delivery as defined by the program's bursting template. Check with the XML Publisher Administrator for details on the bursting template defined for this program.' Below this are several expandable sections: 'Show Email Delivery Options', 'Show IPP Printer Delivery Options', 'Show Fax Delivery Options', 'Show Ftp Delivery Options', 'Show WebDAV Delivery Options', and 'Show Custom Delivery Options'. At the bottom of the page, there is a footer with 'Privacy Statement', navigation links, and 'Copyright (c) 2006, Oracle. All rights reserved.'

BPA Benefits

- End user can maintain (create/modify) BPA templates with almost no technical assistance for most of the changes.
- Bypass the complex coding and customization traditionally associated with AR Invoice Print
- Helps lower the cost of doing business while increasing the efficiency of billing and collections groups
- Can have customer specific templates
- Hyperlinks and drill down functionality can be incorporated
- Integration with iReceivables. Customers can login into iRec and print their bills on their own
- Reprint invoice from Transactions Workbench
- Templates for transaction classes other than invoice
- MLS(Multiple Language Support) Language enabled
- Restrict access to details information when external users are allowed to view online

BPA Limitations

- Only can print. No other delivery options like EDI/Emailing.
- Bursting is possible, but it is not straight forward. The java program has to be customized.

Profile Options

- AR: BPA Attachment Update Enabled
controls whether attachments are updateable on BPA online bills. If set to Yes, the customer can view, add, or delete an attachment when viewing the online invoice. If set to No, the customer can only view the attachment. No default is set for this.
- AR: BPA Details Access Enabled -> Determines whether a user can access the details page of an online invoice.

If set to Yes, user can access the details via the billing lines hyperlink. If set to No, no hyperlink is displayed. Default is set to Yes.

- AR: BPA Print Attachment Document Category
To print attachments with printed bills, configure the AR: BPA Print Attachment Category profile option. While printing a transaction the profile option triggers printing associated PDF attachments that match the specified document category.
- HZ: Enable DQM Party Search
Set this option to enable DQM searching for customers in Interactive Preview. If this is not set, DQM search will not work properly for customer search. No default is set for this



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