




Bill Presentment Architecture in Oracle Receivables - Flexible Invoicing Solution

Venkanna Mittakanti
Lead Oracle Apps Analyst
Siemens Corporation

PEOPLE POWERING PROGRESS

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
- Higher cost for customizations
- Drill down functionality is not possible
- Can't have customer specific invoice format
- Can't have Transaction class specific template

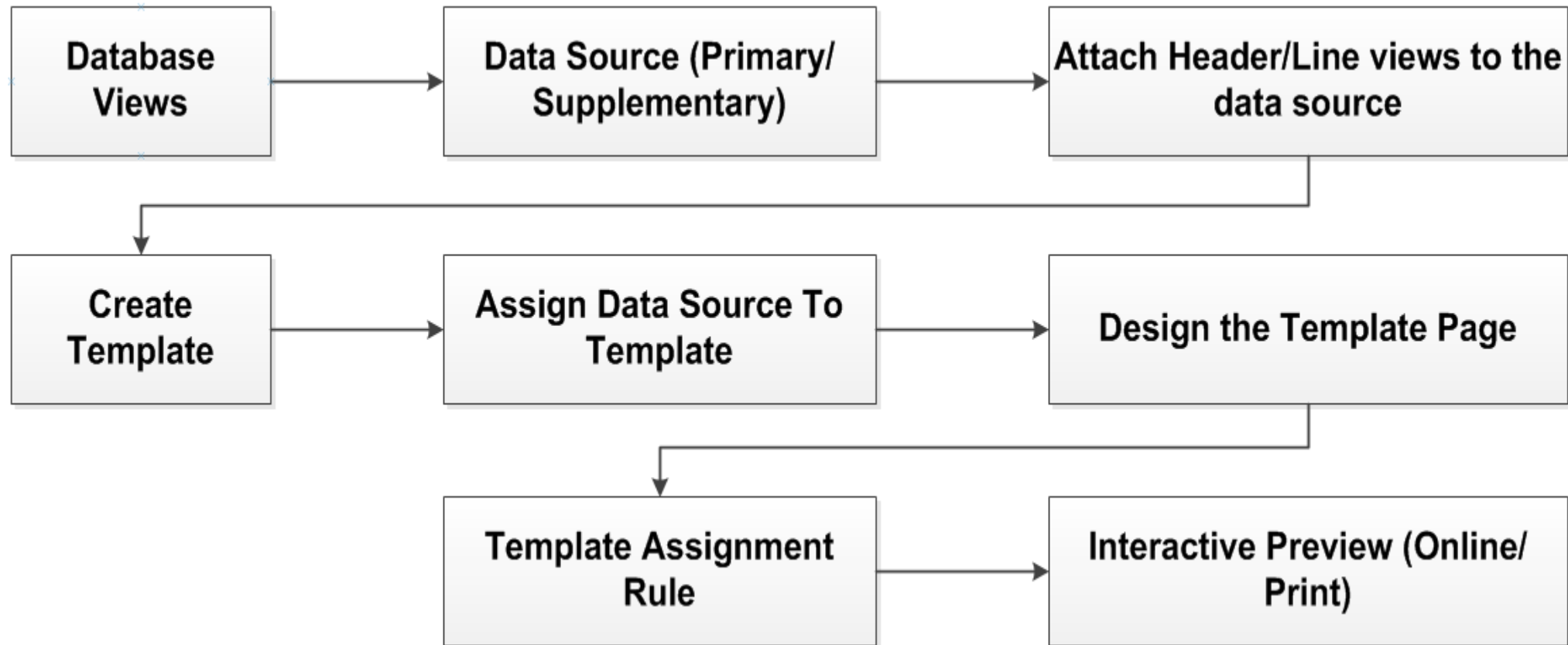
Bill Presentment Architecture(BPA) Overview

- 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

- 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

Confirmation
Template VM has been deleted.

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		Incomplete				
<input type="checkbox"/>	VM Default Oracle Service Contracts Invoice Template	Oracle Receivables	None	Invoice	Oracle Receivables Tax Printing Option		Incomplete				

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

Copyright (c) 2008, Oracle. All rights reserved.

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' on the left and 'Navigator', 'Favorites', 'Home', 'Logout', 'Preferences', and 'Help' on the right. Below this is a sub-navigation bar with 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. Under 'Template Management', there are links for 'Templates', 'Content Items', and 'External Templates'. A progress bar indicates the current step is 'General Information', with other steps being 'Primary Page Design', 'Details Page Design', 'Print Setup', and 'Preview'. The main form area is titled 'Create Template: General Information' and includes a note '* 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' (dropdown: 'Oracle Receivables'), 'Supplementary Data Source' (dropdown: 'Customer Transaction Data Source'), and 'Tax Format' (dropdown: 'Oracle Receivables Tax Printing Option'). There are 'Cancel', 'Save', 'Step 1 of 5', 'Next', and 'Finish' buttons at the bottom right of the form area. The footer contains 'Privacy Statement', navigation links, and 'Copyright (c) 2008, 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

The screenshot displays the Oracle Bill Management interface for creating a template. The top navigation bar includes the Oracle logo, 'Bill Management', and utility links like 'Home', 'Logout', 'Preferences', and 'Help'. Below this, a breadcrumb trail shows 'Template Management' > 'Template Assignment' > 'Print Management' > 'Configuration'. The main content area is titled 'Create Template: Primary Page Design' and shows the 'Primary Page Design' step selected in a progress bar. The template name is 'VM BPA Invoice Template'. The design area is divided into three sections: 'Header', 'Lines and Tax', and 'Footer', each with a table icon and a close button. A 'Show Icon Legend' link is visible on the left. At the bottom right, there are 'Cancel', 'Save', 'Back', 'Next', and 'Finish' buttons, with 'Step 2 of 5' indicating the current progress.

Create Template to present bills

- Primary Page Design > Header > Select Content and Layout

The screenshot displays the Oracle Bill Management interface. The top navigation bar includes 'ORACLE Bill Management', 'Navigator', 'Favorites', and 'Home Logout Preferences Help'. The main navigation tabs are 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The current view is 'Primary Page Design' for 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: 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
- Billing Date
- Comments
- Commitment End Date
- Commitment Start Date
- Context Reference
- Contract Number
- Credit Memo Reason

Selected Content Items:

- Bill To Customer Name
- Bill To Address Formatted
- Bill To Country Name

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

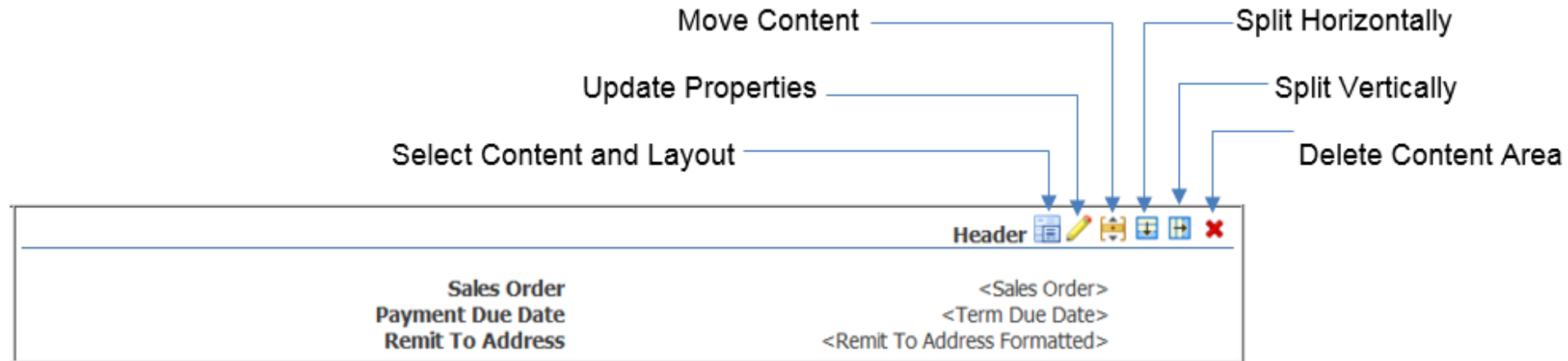
Multiple Rows (without item label)

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



- 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

- 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"/>	Regular ▾	Regular ▾	<input type="text" value=""/>
Bill To Address Formatted	Oracle Receivables : Invoice Header View	<input type="text" value="Bill To Address Formatted"/>	Regular ▾	Regular ▾	<input type="text" value=""/>
Bill To Country Name	Oracle Receivables : Invoice Header View	<input type="text" value="Bill To Country Name"/>	Regular ▾	Regular ▾	<input type="text" value=""/>

Create Template to present bills

The screenshot displays the Oracle Bill Management interface. At the top, the Oracle logo and 'Bill Management' title are visible. Navigation tabs include 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The current step is 'Primary Page Design: Select Content and Layout' for the 'VM BPA Invoice Template'. The interface is divided into 'Content' and 'Layout' sections.

Content Section:

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
- Billing Date
- Comments
- Commitment End Date
- Commitment Start Date

Selected Content Items:

- Ship To Customer Name
- Ship To Address Formatted
- Ship To Country Name

Buttons: Move, Move All, Remove, Remove All

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

ORACLE Bill Management Navigator Favorites Home Logout Preferences Help

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

Create Template to present bills

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

The screenshot displays the Oracle Bill Management interface. At the top, the Oracle logo and 'Bill Management' are visible. The navigation bar includes 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The 'Templates' section is active, showing 'Content Items' and 'External Templates'. The 'Primary Page Design' tab is selected, with sub-tabs for 'General Information', 'Primary Page Design', 'Details Page Design', 'Print Setup', and 'Preview'. The current step is 'Primary Page Design: Select Content'. The template is 'VM BPA Invoice Template' and the content area is 'Lines and Tax'. The 'Billing Lines' section is active, showing a list of available content items and selected content items. The data source is 'Oracle Receivables'. The available content items include: 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, and Transaction Line ID. The selected content items include: Line Number, Item Description, Quantity Ordered, Quantity, Unit Of Measure Name, Line Tax Exists Flag, Unit Price, and Extended Amount. The interface also includes 'Move', 'Move All', 'Remove', and 'Remove All' buttons, and 'Cancel' and 'Apply' buttons.

Create Template to present bills

- Footer - Primary Page Design > Footer > Select Content

The screenshot shows the 'Primary Page Design: Select Content and Layout' configuration screen for the 'VM BPA Invoice Template'. The interface is divided into two main sections: 'Content' and 'Layout'.

Content Section:

- Data Source View:** Oracle Receivables : Invoice Header View
- 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:** Total Amount, Tax Amount, Invoice Currency Code, Line Total Amount.
- Buttons:** Move, Move All, Remove, Remove All.
- Description:** Two empty text boxes for describing the selected items.

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 - Final Layout**

Once the content and layout for each section is selected, the Invoice template will appear as given below:

General Information Primary Page Design Details Page Design Print Setup

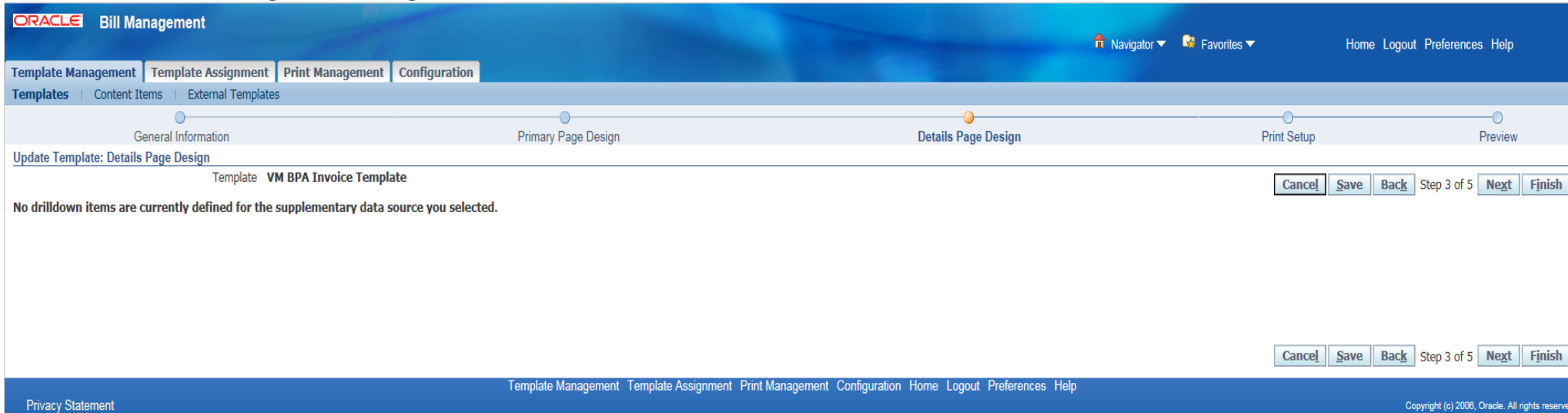
Update Template: Primary Page Design Template VM BPA Invoice Template Cancel Save

Show Icon Legend

<Company Logo>		Logo Area					
Header		Invoice No	Header				
<Transaction Number>		Header					
Ship To <Ship To Customer Name> <Ship To Address Formatted> <Ship To Country Name>	Header	Bill To <Bill To Customer Name> <Bill To Address Formatted> <Bill To Country Name>	Header				
Customer PO Invoice Date Payment Terms	Header	<Purchase Order Number> <Billing Date> <Term Name>	Header				
		Sales Order Payment Due Date Remit To Address	Header				
		<Sales Order> <Term Due Date> <Remit To Address Formatted>					
Ship Date Shipping Method Incoterms	ShipHeader	<Shipping Date> <Shipping Via> <Free on Board Point>	ShipHeader				
Lines and Tax							
Line	Description	Quantity Ordered	Quantity Shipped	UOM	Tax	Unit Price	Line Total
<Line Number>	<Item Description>	<Quantity Ordered>	<Quantity>	<Unit Of Measure Name>	<Line Tax Exists Flag>	<Unit Price>	<Extended Amount>
Footer		SubTotal		Tax		Footer	
		Total		Currency Code		<Line Total Amount> <Tax Amount> <Total Amount> <Invoice Currency Code>	
Footer		Due Date		Outstanding Balance		Footer	
						<Term Due Date> <Outstanding Balance>	

Create Template to present bills

- Details Page Design:



The screenshot displays the Oracle Bill Management web interface. At the top, the Oracle logo and 'Bill Management' are visible. The navigation bar includes 'Navigator', 'Favorites', 'Home', 'Logout', 'Preferences', and 'Help'. Below this, there are tabs for 'Template Management', 'Template Assignment', 'Print Management', and 'Configuration'. The 'Templates' section is active, showing a breadcrumb trail: 'Templates > Content Items > External Templates'. A progress bar indicates the current step is 'Details Page Design', with other steps being 'General Information', 'Primary Page Design', 'Print Setup', and 'Preview'. The main content area is titled 'Update Template: Details Page Design' and shows the template name 'VM BPA Invoice Template'. A message states: 'No drilldown items are currently defined for the supplementary data source you selected.' At the bottom right of the main area, there are buttons for 'Cancel', 'Save', 'Back', 'Next', and 'Finish', with 'Step 3 of 5' displayed. The footer 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
Unit of Measure	Inches
* Paper Height	11
* Paper Width	8.5
* Top Margin	0.5
* Bottom Margin	0.5
* Right Margin	0.5
* Left Margin	0.5
Page Number	Top Left
Font	Arial
Font Size	10pt

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

Cancel Save Back Step 4 of 5 Next Finish

Create Template to present bills

- Preview

ORACLE Bill Management

Navigator Favorites Home Logout Preferences Help

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: Preview

Template VM BPA Invoice Template

Cancel Back Step 5 of 5 Finish

XXX indicates where actual data will appear on the transaction.

Primary Page

XXX

Invoice No XXX

Ship To XXXX Bill To XXXX
 XXXX XXXX
 XXXX XXXX

Customer PO XXXX Sales Order XXXX
 Invoice Date XXXX Payment Due Date XXXX
 Payment Terms XXXX Remit To Address XXXX

Ship Date XXXX
 Shipping Method XXXX
 Incoterms XXXX

Line	Description	Quantity Ordered	Quantity Shipped	UOM	Tax	Unit Price	Line Total
XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX

SubTotal XXXX
 Tax XXXX
 Total XXXX
 Currency Code XXXX

Due Date XXXX
 Outstanding Balance XXXX

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

Confirmation
Template Copy of VM BPA Invoice Template - Detail Page has been deleted.

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	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.

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

Assignment Rules | Assigned Templates

Assignment Rules

Search

Note that the search is case insensitive

Rule Name

Primary Data Source

Supplementary Data Source

Primary Data Source

Rule Name	Primary Data Source	Supplementary Data Source	Update	Delete
Default Rule	Oracle Receivables	None		
Default Rule For Balance Forward Detail Template	Oracle Receivables Balance Forward	None		
Default Rule For Balance Forward Summary Template	Oracle Receivables Balance Forward	None		
VM Caterpillar Template Rule	Oracle Receivables	Customer Transaction Data Source		
VM Test2	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
<p>Available Rules</p> <p>Supplementary Data Source: Customer Transaction Data Source Go</p> <ul style="list-style-type: none">VM Caterpillar Template RuleVM Test2 <p>Description</p>	<p>Available Rules</p> <p>Supplementary Data Source: Customer Transaction Data Source Go</p> <ul style="list-style-type: none">VM Caterpillar Template RuleVM Test2 <p>Description</p>

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 LLC TX	

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	20-Oct-2019 <small>(example: 22-Oct-2019)</small>		

Add Another Row

Duplicate Assignment for Printed Bill

Cancel Apply

- Primary & Supplementary data sources should match 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

The screenshot displays the Oracle Template Management 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. The main area is titled 'Templates' and contains a search section with the following fields: Template Name (VM BPA Invoice Template), Primary Data Source, Transaction Class (Invoice), Supplementary Data Source, Tax Format, Format, and Status. There are 'Go' and 'Clear' buttons below the search fields. Below the search section, there is a 'Select Template:' section with a dropdown menu set to 'Mark as Complete' and 'Go' and 'Create' buttons. Below this is a table of templates with columns: Select, Template Name, Primary Data Source, Supplementary Data Source, Transaction Class, Tax Format, Template Format, Status, Update, Duplicate, Delete, and Interactive Preview. The 'Interactive Preview' column for the first row is highlighted in yellow.

Select	Template Name	Primary Data Source	Supplementary Data Source	Transaction Class	Tax Format	Template Format	Status	Update	Duplicate	Delete	Interactive Preview
<input type="checkbox"/>	VM BPA Invoice Template	Oracle Receivables	Customer Transaction Data Source	Invoice	Oracle Receivables Tax Printing Option		Incomplete				
<input type="checkbox"/>	VM BPA Invoice Template2	Oracle Receivables	Customer Transaction Data Source	Invoice	Oracle Receivables Tax Printing Option		Incomplete				

Footer: Privacy Statement | Template Management | Template Assignment | Print Management | Configuration | Home | Logout | Preferences | Help | Copyright (c) 2008, Oracle. All rights reserved.

View Online Bills

- Select the transaction number and click on Online Preview icon

The screenshot displays the Oracle Bill Management web application. The top navigation bar includes the Oracle logo, 'Bill Management' title, and links for Navigator, Favorites, Home, Logout, Preferences, and Help. Below this, there are tabs for Template Management, Template Assignment, Print Management, and Configuration. The current page is 'Interactive Preview' for the 'VM BPA Invoice Template'. A search section allows filtering by Operating Unit (TXO), Transaction Number Low (110746), and Transaction Number High (110746). It also shows Transaction Class (Invoice), Primary Data Source (Oracle Receivables), and Supplementary Data Source (Customer Transaction Data Source). A 'Go' button is present. Below the search, a table lists transactions with columns for Selection, Transaction Number, Operating Unit, Transaction Class, Customer Name, Online Preview, and Print Preview. The transaction 110746 is selected, and a tooltip 'Results table' is visible over the Operating Unit cell. A 'Print' button is located above the table. The footer contains a Privacy Statement link and copyright information for Oracle (c) 2008.

ORACLE Bill Management

Navigator Favorites Home Logout Preferences Help

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 TXO

Transaction Number Low 110746

Transaction Number High 110746

Customer Name

Transaction Class Invoice

Primary Data Source Oracle Receivables

Supplementary Data Source Customer Transaction Data Source

Display All Transactions

Go

Select Transactions: Print

Select All | Select None

Select	Transaction Number	Operating Unit	Transaction Class	Customer Name	Online Preview	Print Preview
<input type="checkbox"/>	110746	TXO	Invoice	CATERPILLAR GLOBAL MINING LLC TX		


Cancel

Privacy Statement

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

Copyright (c) 2008, Oracle. All rights reserved.

View Online Bills

 Invoice No **110746**

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

Bill To
 CATERPILLAR GLOBAL MINING LLC TX
 1400 - MFG PARTS
 3501 S FM 1417
 DENISON, TX 75020
 United States

Customer PO 5500061459
Invoice Date 09-Sep-2019
Payment Terms NET 60

Sales Order 10074377
Payment Due Date 08-Nov-2019
Remit To Address TEXAS HYDRAULICS, INC.
 PO BOX 645447
 PITTSBURGH, PA 15264-5252

Ship Date 09-Sep-2019
Shipping Method CHROBINSON
Incoterms

Line	Description	Quantity Ordered	Quantity Shipped	UOM	Tax	Unit Price	Line Total
2	HYDRAULIC CYLINDER D80240072FH	1.00	1	Each	No	29205.00	29205.00
1	HYDRAULIC CYLINDER D80240072FH	1.00	1	Each	No	29205.00	29205.00

SubTotal 58410.00
Tax 0.00
Total 58410.00
Currency Code USD

Due Date 08-Nov-2019
Outstanding Balance 58410.00

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

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

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"/>	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

- External Template: Item Mapping

Template Management Template Assignment Print Management Configuration				
Templates Content Items External Templates				
Update External Template: Item Mapping				
Template VM External Template				
Cancel Save Back Step 3 of 4 Next Finish				
Previous 1-25 of 57 Next 25				
Number	Field Name	Data Source View	Item Code	Item Name
1	BILL_ADDRESS1	Customer Transaction Data Source : Customer Header View	BillToAddress1	Bill To Address1
2	BILL_ADDRESS2	Customer Transaction Data Source : Customer Header View	BillToAddress2	Bill To Address2
3	BILL_ADDRESS3	Customer Transaction Data Source : Customer Header View	BillToAddress3	Bill To Address3
4	BILL_ADDRESS4	Customer Transaction Data Source : Customer Header View	BillToAddress4	Bill To Address4
5	BILL_CITY	Customer Transaction Data Source : Customer Header View	BillToCity	Bill To City
6	BILL_COUNTRY_DESCRIPTION	Oracle Receivables : Billing Lines	Description	Item Description
7	BILL_CUST_NAME	Oracle Receivables : Invoice Header View	BillToCustomerName	Bill To Customer Name
8	BILL_POSTAL_CODE	Customer Transaction Data Source : Customer Header View	BillToPostalCode	Bill To Postal Code
9	BILL_STATE	Customer Transaction Data Source : Customer Header View	BillToState	Bill To State
10	CF_FREIGHT_TERMS	Oracle Receivables : Invoice Header View	FreightAmount	Freight Amount
11	CP_LEGAL_ADDR1	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
12	CP_LEGAL_ADDR2	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
13	CP_LEGAL_ADDR3	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
14	CP_LEGAL_ADDR4	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
15	CP_LEGAL_ADDR6	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
16	CP_LEGAL_ADDR8	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
17	CP_LEGAL_ADDR9	Oracle Receivables : Billing Lines	LegalMsgText	Legal Justification Text
18	CUSTOMER_NUMBER	Oracle Receivables : Invoice Header View	BillToCustomerNumber	Customer Number
19	CUST_ITEM_NO	Oracle Receivables : Invoice Header View	CustomerFax	Customer Fax
20	INTERFACE_HEADER_ATTRIBUTE1	Oracle Receivables : Billing Lines	InterfaceLineContext	Interface Line Context
21	INTERFACE_HEADER_ATTRIBUTE3	Oracle Receivables : Billing Lines	InterfaceLineContext	Interface Line Context
22	INVOICE_CURRENCY_CODE	Oracle Receivables : Invoice Header View	InvoiceCurrencyCode	Invoice Currency Code
23	INV_ALL_AMOUNT	Oracle Receivables : Invoice Header View	TotalAmount	Total Amount
24	INV_FREIGHT_AMOUNT	Oracle Receivables : Invoice Header View	FreightAmount	Freight Amount

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 image shows two overlapping windows from a software application. The background window is titled 'Submit Request' and contains the following fields:

- Run this Request...
 - Name: BPA Transaction Print Program
 - Operating Unit: [Empty]
 - Parameters: [Empty]
 - Language: [Empty]
- At these Times...
 - Run the Job: As Soon as Possible
- Upon Completion...
 - Save all Output Files
 - Layout: [Empty]
 - Notify: [Empty]
 - Print to: noprint

The foreground window is titled 'Parameters' and contains the following fields:

- Operating Unit: TXO
- Transactions to Print: Unprinted
- Order By: Transaction Number
- Batch: [Empty]
- Transaction Class: [Empty]
- Transaction Type: [Empty]
- Customer Class: [Empty]
- (From) Bill To Customer Name: [Empty]
- (To) Bill To Customer Name: [Empty]
- (Low) Bill To Customer Number: [Empty]
- (High) Bill To Customer Number: [Empty]
- (Low) Transaction Number: 110746 Invoice : TEX INVOICE
- (High) Transaction Number: 110746 Invoice : TEX INVOICE
- Installment Number: [Empty]
- (Low) Print Date: [Empty]
- (High) Print Date: [Empty]
- Open Invoices Only: Yes
- Locale: [Empty]

Buttons at the bottom of the 'Parameters' window include OK, Cancel, Clear, and 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 a web application interface for scheduling a print 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 section is titled 'Schedule Request: Define'. It includes a note: '* Indicates required field'. On the right side of this section are three buttons: 'Manage Schedule', 'Cancel', and 'Continue'.

Below the note are two radio buttons: 'New Request' (selected) and 'Copy Request'. There are two text input fields: 'Program Name' (containing 'BPA Transaction Print Program') and 'Request Name' (empty). A small note below the 'Request Name' field says 'The name can later be used to search for this request'. There is a magnifying glass icon next to the 'Program Name' field.

Below the input fields are several tabs: 'NLS Settings', 'Parameters', 'Notification', 'Print Options', 'Delivery Options', and 'ScheduleOptions'. The 'Burst Output' section is expanded, showing a checkbox (unchecked) and 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, each with a plus icon and a link: '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 right of the form area are three buttons: 'Manage Schedule', 'Cancel', and 'Continue'.

The footer of the page contains a 'Privacy Statement' link on the left, a navigation menu in the center (Template Management, Template Assignment, Print Management, Configuration, Home, Logout, Preferences, Help), and a copyright notice on the right: '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.

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

Questions?

venkanna.mittakanti@siemens.com