

# Features and Functionality of BI Publisher

**Presented to: SCOUG**

June 7, 2010



# Kirby Corporation

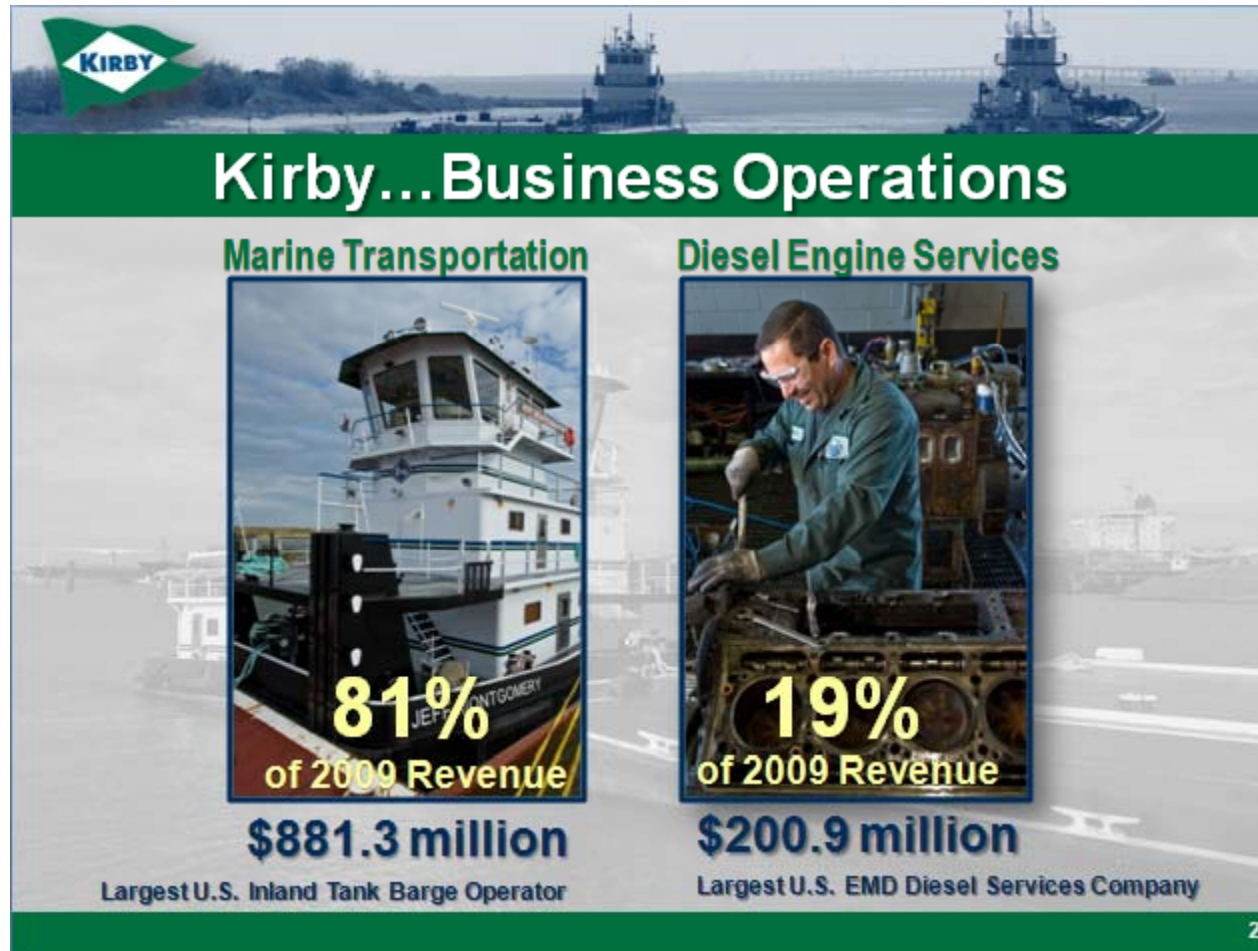


**KIRBY CORPORATION**



*Putting America's Waterways to Work*  
NYSE: KEX  
May 2010

# Kirby Corporation



# Kirby Corporation



## Kirby Facts

- Largest inland tank barge operator
- Operates 861 barges and currently operating 224 towing vessels
- Sustainable competitive advantages:
  - Lowest cost due to economies of scale
  - Best positioned for growth opportunities
  - “One Stop Shop” for customers
- 75% of inland marine transportation revenues under term contracts, of which approximately 50% are under time charters
- Successful integration of 25 marine and 15 diesel acquisitions

3

# Kirby Corporation

- Currently on Oracle 11.5.10+
- Two Instances
  - Financials(Accounts Receivable, Accounts Payable, General Ledger, Cash Management, Fixed Assets), Purchasing, Inventory, Order Management and Advanced Pricing
  - Financials , Purchasing, and Discrete Manufacturing (Inventory, Order Management, Advanced Pricing, Bill of Materials, Cost Management, WIP, Quality, Configurator), and Mobil Supply Chain

# Kirby - Needs



- 3<sup>rd</sup> party check printing solution
  - Old technology
  - Pre-printed paper
  - Printer issues – becoming unsupported
  - Different locations get different check styles
- Update existing AR Invoice printing solution
  - Pre-printed paper
  - Every change in format required a change to the Oracle Report.
- Solution – Oracle BI Publisher



# Oracle BI Publisher

- Oracle BI Publisher is an enterprise reporting solution to author, manage, and deliver all types of highly formatted documents eliminating the need for costly point solutions
- Developed to solve Oracle Apps reporting problems
- Released with Oracle E-Business Suite 11.5.10 in 2003
- BI Publisher can query or accept data from practically any data source and produce custom data to...multiple destinations like printers, e-mail, fax, WebDav, or ftp
- It is the current and future reporting standard for all Oracle publishing needs.

# What can BI Publisher do for you

- Experienced end users are able to insert data fields into Word documents without any help from IT
- Changes to the format can be performed in MS Word – requiring no additional training. Examples include:
  - replacing the company logo
  - altering column width
  - changes to fonts or boilerplate text
- The template builder add-in allows end users to mark up word documents easily with charts, data tables and calculations.



# Simplified Self-Service Reporting

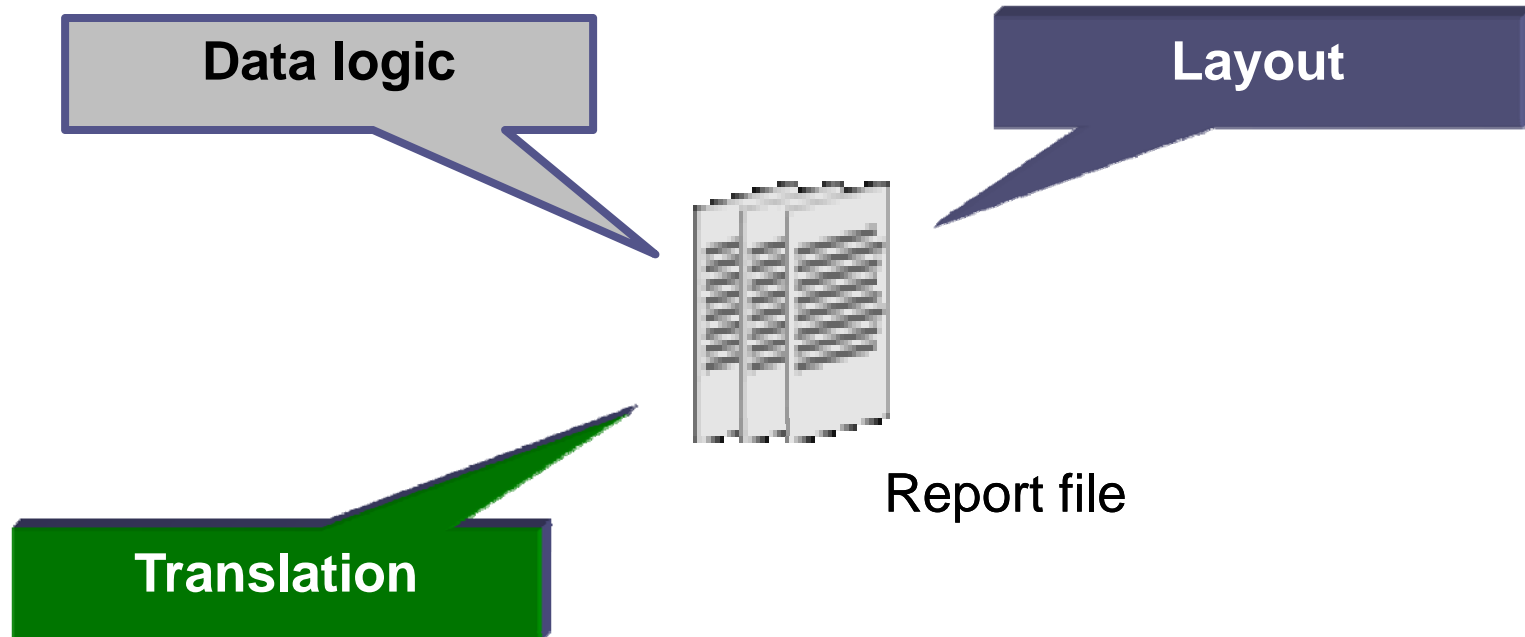
## Reporting Evolution

- Replaces most standard reports with data extracts and templates
- Merges custom templates and data extracts at run-time
- Delivers output in PDF, HTML, RTF, Excel (HTML), or text for use with EFT and EDI transmissions

## Benefits

- Put reporting in the hands of the business user
- Create report formats using desktop tools (Adobe Acrobat, MS Word, MS Excel, and XSL Editors)
- Publish in any format, to the web and electronically
- Drive reporting consistency with one source of data

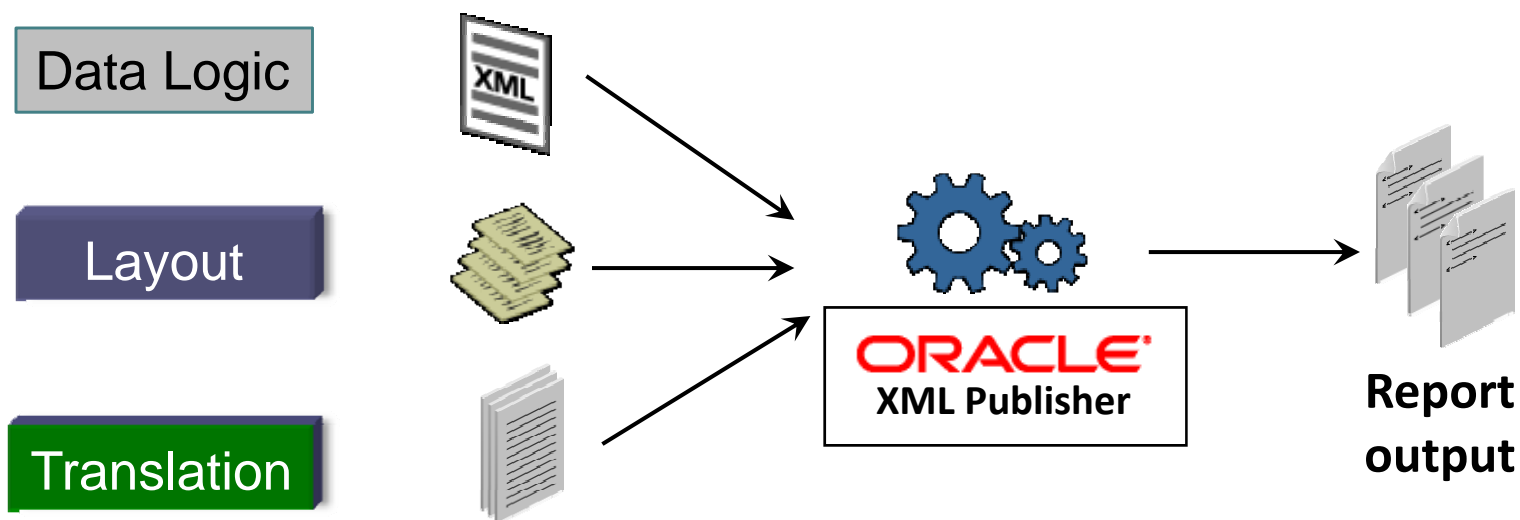
# Old School Reporting



- High development cost
- Low flexibility
- High customization cost
- Difficult upgrade

# XML Publisher Reporting Paradigm

Separate data / layout / translation



- More flexibility
- Reduced maintenance

# From Data to Destination

## Data Source

Oracle,  
SQL Server

PeopleSoft,  
SAP, Siebel

Java, C++,  
Perl, etc

Web Services

## Layout Tools

**ORACLE**  
XML Publisher



### Templates

- Word
- Excel
- Acrobat
- XML Spy
- Scriptura
- Others

## Output

PDF

RTF

HTML

Excel

XML

EDI

EFT

## Destinations



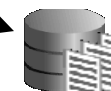
Email



Printer



Fax

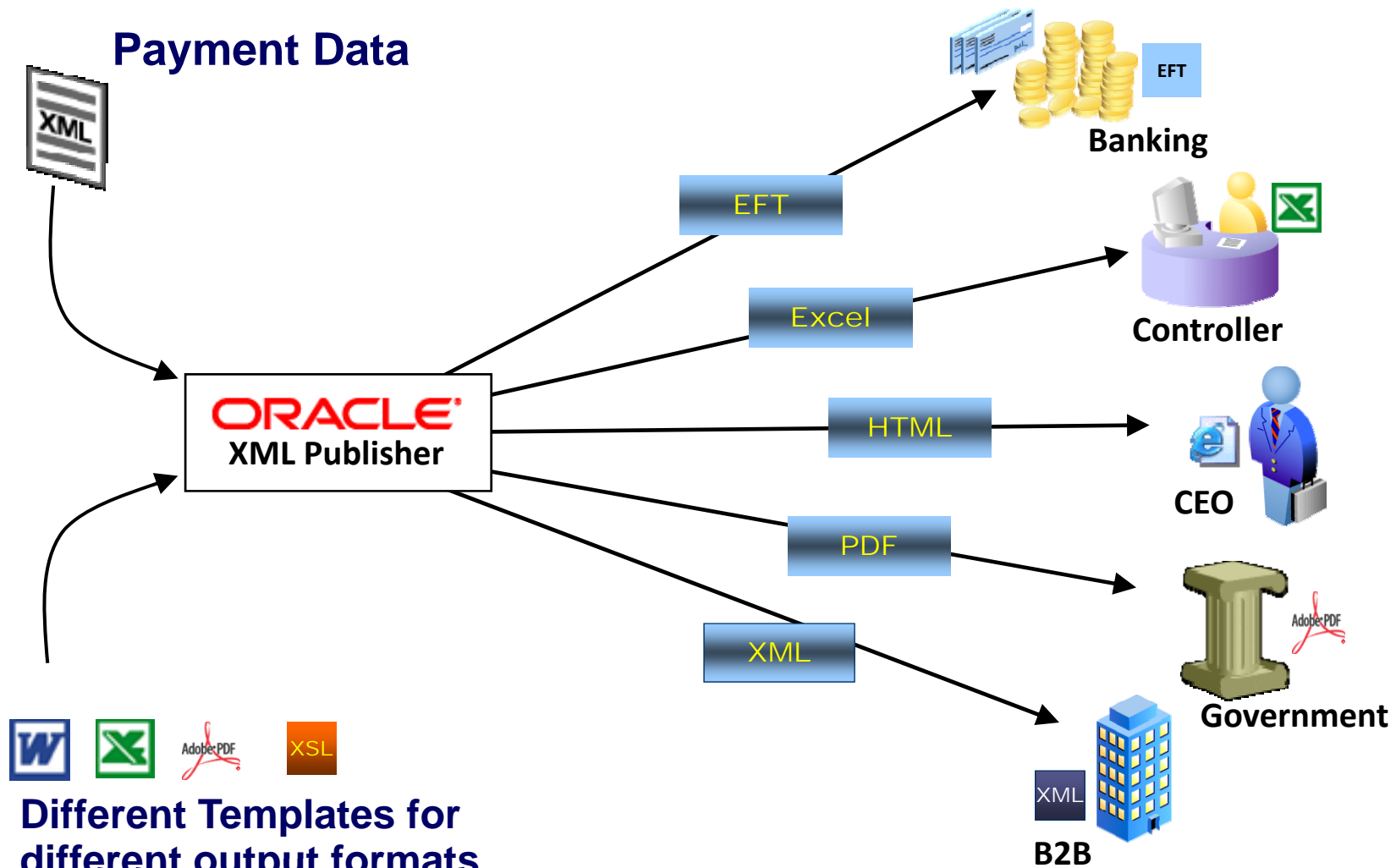


Repository



e-Commerce

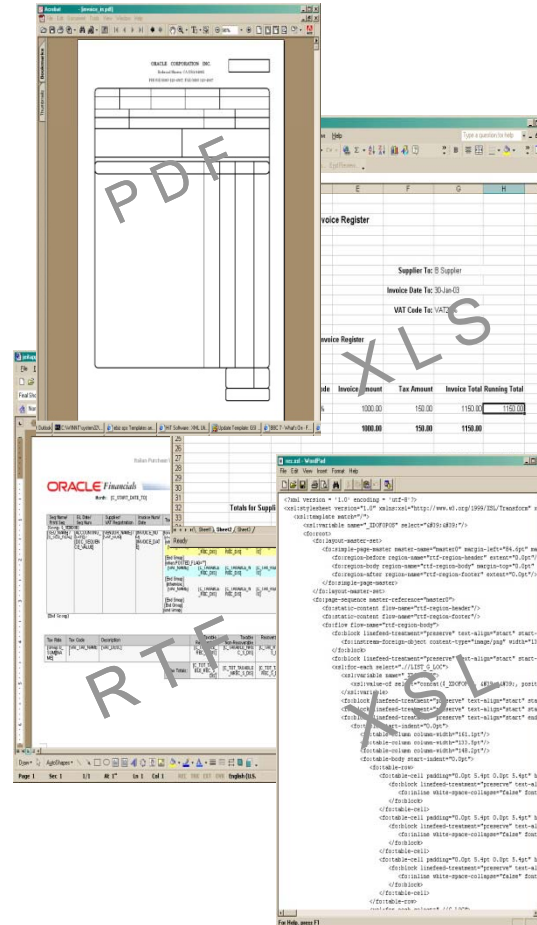
# Extract Once – Publish Multiple Times



# XML Publisher Technology

## Industry Standard Templates

- Using desktop applications
  - Adobe Acrobat
  - MS Word
  - MS Excel
  - XSL Editors
- Template Builder Add ins



# One solution for ALL Print needs

**FROM:**  
My Toy Supp  
300 Oracle P  
Redwood Sh  
CA 94065

**TO: KM**  
100 E  
Redw  
CA 94

**ORACLE CORP**  
Redwood Shores  
PHONE: 650 122-0957

**AT&T Universal Card**  
5645 Main Street  
Jacksonville  
FL  
32209

**VISION CORPORATION**  
ORDERING DOCUMENT  
Sales Order No. 11873

Customer: Total Internal  
Address: 123 Rock Harbor Lane  
Foster City  
CA 94024  
US

Bill To: 123 Rock Harbor Lane  
Foster City  
CA 94024  
US

Ship To: 123 Rock Harbor Lane  
Foster City  
CA 94024  
US

**PI1D EXPENSES AND BENEFITS 2002-03**

**Note to employer**  
Complete this return for a decedent or employee who earned at least \$1,000 in 2002-03. Do not include expenses and benefits covered by a dependent or 1041 statement. Send the completed PI1D and Form 1041 to the Internal Revenue Service by July 2003. You must also give a copy of this information to the decedent or employee for each date. The decedent or employee is used to check the decedent and employee throughout the rest of the form.

**Note to employee**  
You employer has filled in the form. Keep this form safe as you may need to submit a duplicate. You will need the form to report on the 2002-03 Tax Return if you get one. You may need to submit a duplicate to the Internal Revenue Service. The decedent or employee has the same information as the employer. If the decedent or employee has the same information as the employer, the decedent or employee should not fill out this form. If the decedent or employee has different information, the decedent or employee should fill out this form.

**Employer's details**  
Employer name: Kakashi, Suzuki  
Employer address: 123456789  
Employer phone: 123456789

**Employee's details**  
Employee name: Kakashi, Suzuki  
Employee address: 123456789  
Employee phone: 123456789

**Employer's details**  
Employer name: Kakashi, Suzuki  
Employer address: 123456789  
Employer phone: 123456789

**Employee's details**  
Employee name: Kakashi, Suzuki  
Employee address: 123456789  
Employee phone: 123456789

**azil Sets the ERP Standard**  
he

**ORACLE® General Ledger**  
Vision Operations (USA)

**Batch: CENTRA: C700000000 Interscompany Transfer USD**  
Posted Date: 30-SEP-99

Line	Account	Transaction Date	Description	Line Item	Debit	Credit	Unit
1	01-000-1410-0000-000	31-JAN-99	Journal Import Created	CT00000070	3,000.00		0.00
2	01-000-1813-0000-000	31-JAN-99	Journal Import Created	CT00000070		3,000.00	0.00
3	01-000-4103-0000-000	31-JAN-99	Journal Import Created	CT00000070		15,000.00	0.00
4	01-000-5110-0000-000	31-JAN-99	Journal Import Created	CT00000070		12,000.00	0.00
<b>Journal Total</b>					<b>3,000.00</b>	<b>3,000.00</b>	<b>0.00</b>

**Invoice**

Invoice Number	Invoice Type	Invoice Amount	Bank Charge
502444	Standard	\$19,125.00	\$0.00

**Oracle Corporation**  
500 Oracle Parkway  
Redwood Shores, CA 94404

**Pay to the order of** Vision Corporation **\$ 2,100.00**

**Two thousand one hundred and zero cents\*\*\*\*\***

**Anonymous Bank**  
Aaa Street  
New York, NY 10000

**Memo**

**1234043213726178993017676**

**DESCRIPTION**

Internal Application Server Standard Edition - Proton  
Product Support - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 2

NETWORK ACCESS FEE DEPARTMENTAL  
Product Support - 2002/05/25 to 2003/05/30  
License Qty: 2 CSM 330/1650 Users: 1 CONCURRENT

NETWORK ACCESS FEE DEPARTMENTAL  
Product Support - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 1 CONCURRENT

CDU Remedy - Nonstandard User  
Product Support - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 1 CONCURRENT

Partitioning Named User MIB Server  
Software Updates (Optional Subscription Service) - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 250 NAME-D USER

Oracle Database Enterprise Edition - Nonstandard User  
Product Support - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 16

Partitioning - Concurrent Device  
Product Support - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 48

Programmer Nonstandard User  
Product Support - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 1 CONCURRENT

Express Server - Concurrent Device  
Software Updates (Optional Subscription Service) - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 48 APPS SPECIFIC FULL USE

Partitioning Nonstandard User  
Software Updates (Optional Subscription Service) - 2002/1/25 to 2003/05/30  
License Qty: 1 CSM 330/1650 Users: 2 FULL USE

**ORACLE® PARTNER**

**O2Works**  
Putting Oracle To Work

**THE TREASURY - Internal Revenue Service**  
Privacy Act and Paperwork Reduction Act Notice, see separate instructions.

**TERMS:** Net Due in 30 Days

**PLEASE PAY THIS AMOUNT**

**\$325,409.68**

**Do Not Cut, Fold, or Staple Forms on This Page**

**Do Not Cut, Fold, or Staple Forms on This Page**



# BI Publisher - Components

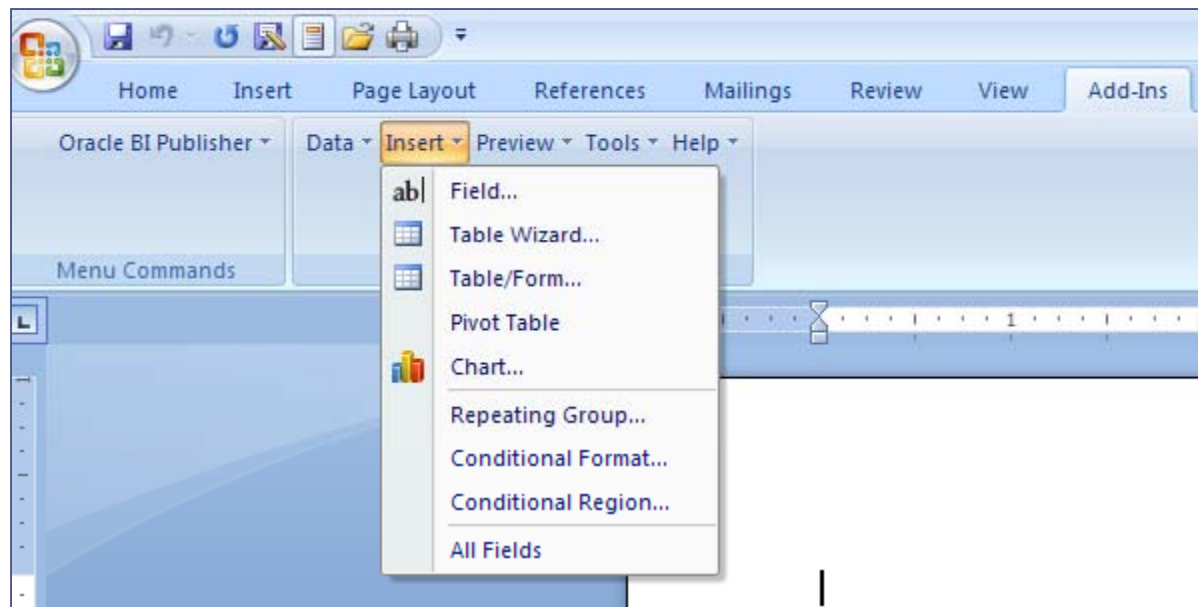
- XML Publisher Administrator - Responsibility and User Interface
  - Manage Templates and Data Definitions
- XML Report Publisher Concurrent Request

The screenshot displays the Oracle XML Publisher Administrator web interface. At the top, the title bar reads "ORACLE XML Publisher". Below this, the "Templates" section is active, with a link to "Personalize 'Search'". Under the "Search" heading, there are input fields for "Name", "Application", and "Type" (set to "XSL-FO"), along with a "Go" button. To the right, a "Data Def" link is visible. Below the search area, there are links for "Personalize Table Layout: (ResultsRn)" and "Personalize 'This table is for displaying templ...'". A table lists existing templates:

Name	Application	Data Definition
<a href="#">Standard Purchase Order Stylesheet</a>	Purchasing	Standard Purchase Order Data Source
<a href="#">Blanket Agreement Stylesheet</a>	Purchasing	Blanket Purchase Agreement Data Source
<a href="#">Contract Agreement Stylesheet</a>	Purchasing	Contract Purchase Agreement Data Source

# BI Publisher Components

- Oracle BI Publisher Desktop Application
  - Template Builder – Microsoft Word Add In
  - Template Viewer – quick and easy viewing of designs

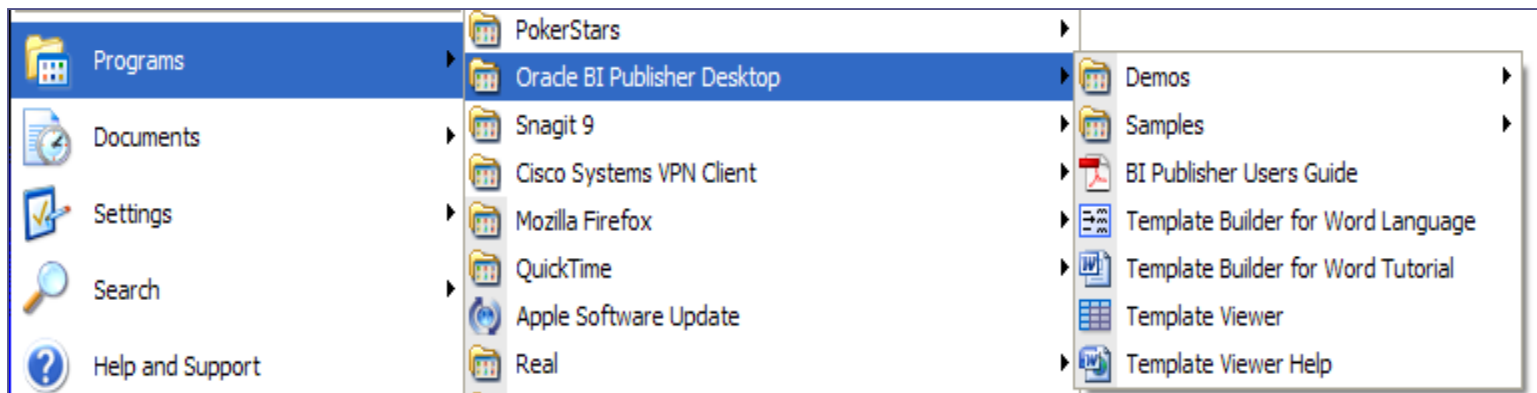


# Kirby Inland Marine – Checks

- Current State
  - 3<sup>rd</sup> Party Solution
  - Different pre-printed checks for various locations
  - Solution support was running out
  - High Risk with old solution and printing hardware
- Future State
  - Integrated Oracle Solution
  - Less need for pre-printed checks
  - Single format for various destinations
  - Easily maintained

# BI Publisher Check Creation Steps

- Download Oracle Desktop BI Publisher from Oracle



# BI Publisher Check Creation Steps

- Add the XML Publisher Administrator responsibility to the appropriate users

The screenshot shows the Oracle Users form for user CKONDRAT. The form includes fields for User Name, Password, Description, Person, Customer, Supplier, E-Mail, Fax, Password Expiration (Days, Accesses, None), and Effective Dates (From, To). The XML Publisher Administrator responsibility is listed in the Direct Responsibilities tab.

Responsibility	Application	Description	Security Group	Effective Date From
XML Publisher Administrator	XML Publisher		Standard	19-NOV-2008

# BI Publisher Check Creation Steps

- Assign the XML Report Publisher to the appropriate request group

The screenshot shows the 'Request Groups' configuration window in Oracle BI Publisher. The window has a title bar with a red close button and the text 'Request Groups'. Below the title bar, there are four input fields: 'Group' with the value 'Payables Reports only', 'Application' with the value 'Payables', 'Code' which is empty, and 'Description' with the value 'AP SRS reports, not including update programs'. Below these fields is a section titled 'Requests' which contains a table with three columns: 'Type', 'Name', and 'Application'. The table has one row with the following values: 'Program' in the 'Type' column, 'XML Report Publisher' in the 'Name' column, and 'XML Publisher' in the 'Application' column.

Type	Name	Application
Program	XML Report Publisher	XML Publisher

# BI Publisher Check Creation Steps

- Update the Format Payments Program to have an output of XML

The screenshot shows the 'Concurrent Programs' configuration window. The 'Program' field is set to 'Format Payments (Evergreen, Form Feed)' and is checked as 'Enabled'. The 'Short Name' is 'APXPBFEEF', the 'Application' is 'Payables', and the 'Description' is 'Format Payments (Evergreen, Form Feed)'. Under the 'Executable' section, the 'Name' is 'APXPBFEG' and the 'Method' is 'Oracle Reports'. The 'Options' field contains 'p\_continuous\_stationery="N"' and the 'Priority' is set to 1. In the 'Request' section, the 'Type' is empty. In the 'Output' section, the 'Format' is set to 'XML'.

Program	Format Payments (Evergreen, Form Feed)	<input checked="" type="checkbox"/> Enabled
Short Name	APXPBFEEF	
Application	Payables	
Description	Format Payments (Evergreen, Form Feed)	
<b>Executable</b>		
Name	APXPBFEG	Options: p_continuous_stationery="N"
Method	Oracle Reports	Priority: 1
<b>Request</b>		
Type		
<b>Output</b>		
Format	XML	



# BI Publisher Check Creation Steps

- Update the Format Payments Program to have an output of XML

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Program	Format Payments (Evergreen, Form Feed)	<input checked="" type="checkbox"/> Enabled
Short Name	APXPBFEEF	
Application	Payables	
Description	Format Payments (Evergreen, Form Feed)	
<b>Executable</b>		
Name	APXPBFEG	Options p_continuous_stationery="N"
Method	Oracle Reports	Priority 1
<b>Request</b>		
Type		
<b>Output</b>		
Format	XML	

# BI Publisher Check Creation Steps

- Save a copy of the XML Output after running the payment program for use in designing your template.

```
<?xml version="1.0" ?>
- <!--
Generated by Oracle Reports version 6.0.8.27.0
-->
- <APXPBFEG>
- <LIST_G_CHECKS>
- <G_CHECKS>
  <C_CHECKRUN_NAME>CWKTESTXML01</C_CHECKRUN_NAME>
  <C_CHECK_NUMBER>449462</C_CHECK_NUMBER>
  <C_CHECK_AMOUNT>1034.66</C_CHECK_AMOUNT>
  <C_STATUS_LOOKUP_CODE />
  <C_VENDOR_NUMBER>1334</C_VENDOR_NUMBER>
  <C_VENDOR_NAME>ORACLE CORPORATION</C_VENDOR_NAME>
  <C_VENDOR_SITE_CODE>CHICAGO</C_VENDOR_SITE_CODE>
  <C_CUSTOMER_NUMBER />
  <C_ADDRESS_LINE1>PO BOX 71028</C_ADDRESS_LINE1>
  <C_ADDRESS_LINE2 />
  <C_ADDRESS_LINE3 />
  <C_CITY>CHICAGO</C_CITY>
  <C_STATE>IL</C_STATE>
  <C_ZIP>60694-1028</C_ZIP>
  <C_PROVINCE />
```

# BI Publisher Check Creation Steps

- Begin Designing Your Template
  - Open Microsoft Word
  - Create Layout
  - Add data fields and XML simplified tags
  - Save as RTF

# BI Publisher Check Creation Steps

- Begin Designing Your Template

SCOUG CHECK [Compatibility Mode] - Microsoft Word

Table Tools

Home Insert Page Layout References Mailings Review View Add-Ins Acrobat Design Layout

Oracle BI Publisher Data Insert Preview Tools Help

Menu Commands Custom Toolbars

V\_no\_of\_lines\_per\_page V\_inner\_group\_And\_V\_First\_rec  
DATE: C\_PAYMENT\_DATE

INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMT.	NET AMOUNT
IF_Filler_CHK	C_INVOICE_D	DESC	0.00	End_filer

company  
Ven\_Name (Ven\_Number)

No: CHK

Recursive\_Template

company  
JPMORGAN CHASE BANK N.A.  
DALLAS, TX 75201-9999  
88-88/1113<end if?>endif  
DATE  
C\_PAYMENT\_DATE

WARNING  
Do not accept this document unless you  
can see a true watermark, visible fibers from  
both sides, bleed thru graphic number and  
@)xotype signature lines.

PAY WORD\_AMT

CHECK AMOUNT \$

TO THE ORDER OF: Ven\_Name  
C\_ADDR1  
C\_ADDR2  
C\_ADDR3  
C\_CITY, C\_STATE C\_ZIP  
C\_COUNTRY\_NAME

AUTHORIZED SIGNATURE  
BGif eiif ei

C333333333C A333333333A C

# BI Publisher Check Creation Steps

- Flexibility is the key!
- You can insert fields, tables, and groups with the template builder

The screenshot displays the BI Publisher template editor interface. On the left, a table is being constructed with two columns: 'INVOICE NO.' and 'INVOICE DATE'. The 'INVOICE NO.' column contains the text 'If For C INVOICE' and 'FILLER CHK'. The 'INVOICE DATE' column contains the text 'C INVOICE D'. Below the table, there is a section for 'Recursive Template' with the following code:

```
<?if: ././C_BANK_ACCOUNT_NUM_ON_US = '0000308yyyyyyyy' or  
././C_BANK_ACCOUNT_NUM_ON_US = '000006300iiiiiiiiii'?>P.O.  
Box.1537  
Houston Texas 77251<?end if?><?if:  
././C_BANK_ACCOUNT_NUM_ON_US =  
'0000001002xxxxxxxxxx'?>18350 Market Street  
Channelview, Texas 77530<?end
```

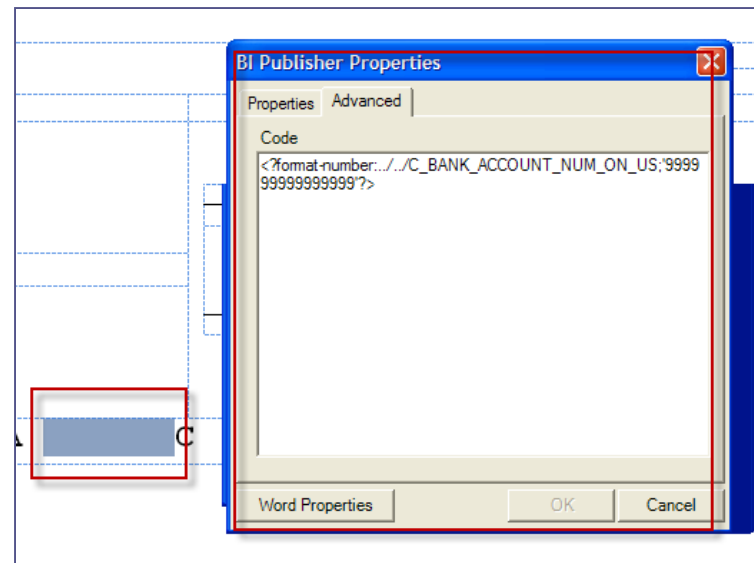
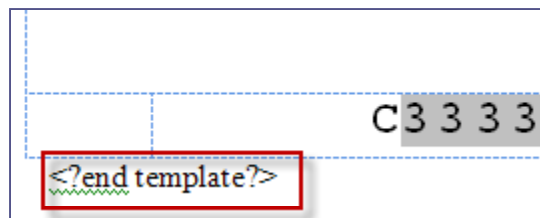
On the right, the 'Field' dialog box is open, showing a tree view of available fields. The 'List G Invoices' folder is expanded, and the 'G Invoices' folder is also expanded. The following fields are listed under 'G Invoices':

- C Payment Number
- C Invoice Number
- C Invoice Date
- C Invoice Voucher Number
- C Full Invoice Amount
- C Ps Due Date
- C Ps Discount Date
- C Ps Invoice Desc
- C Ps Payment Priority
- C Ps Amount Remaining
- C Ps Max Payment Amt
- C Ps Actual Payment Amt
- C Ps Discount Amt
- C Sequence Number
- C Invoice Endorsement Date

The 'Field' dialog box also includes a 'Find' field, a 'Find Next' button, and a 'Please select a node in the tree.' message.

# BI Publisher Check Creation Steps

- You can also use the basic RTF method or you can use the Form Field method to add XSL/XSL-FO tags for the fields and commands you would like to use.
- When using the RTF method you are using simplified syntax.



# BI Publisher Check Creation Steps

- It is recommended that you utilize tables to aide in your layout formats.

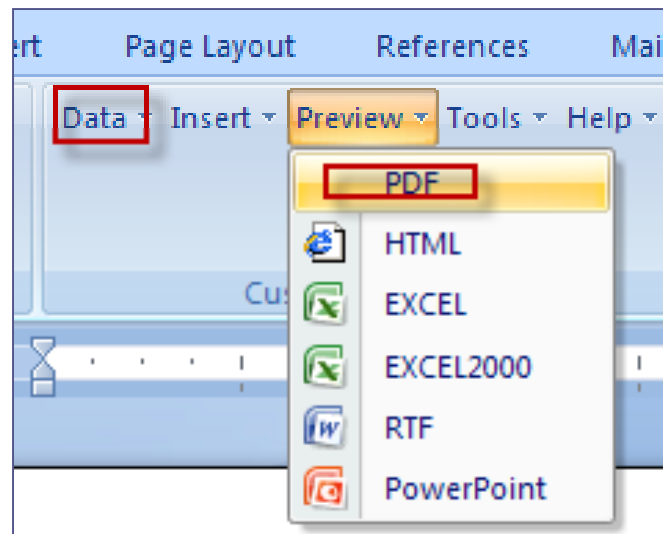
<p><b>company</b></p> <p>&lt;?if: ././C_BANK_ACCOUNT_NUM_ON_US = '0000308yyyyyyyy' gr  ././C_BANK_ACCOUNT_NUM_ON_US = '000006300iiiiiiii'?'&gt;P.O.  Box 1537  Houston Texas 77251&lt;?end if?&gt;&lt;?if:  ././C_BANK_ACCOUNT_NUM_ON_US =  '0000001002xxxxxxxx?'&gt;18350 Market Street  Channelview, Texas 77530&lt;?end  if?&gt;&lt;?if: ././C_BANK_ACCOUNT_NUM_ON_US =  '0000063mmmmmmmm'?'&gt;P.O. BOX 880  Harvey, Louisiana 70059&lt;?end if?&gt;</p>	<p><b>WARNING</b></p> <p>Do not accept this document unless you  can see a true watermark, visible fibers from  both sides, bleed thru arabic number and  microtype signature lines.</p>	<p>JPMORGAN CHASE BANK N.A.  DALLAS, TX 75201&lt;?if: ././C_BANK_ACCOUNT_NUM_ON_US = '0  0000630mmmmmm' gr ././C_BANK_ACCOUNT_NUM_ON_US = '000000000000  C'?'&gt;  88-88/1113&lt;?end if?&gt;&lt;?if: ././C_BANK_ACCOUNT  _NUM_ON_US = '00000010ddddd' gr ././C_BANK  _ACCOUNT_NUM_ON_US = '00003080ddddd'?'&gt;  32-61/2222&lt;?end if?&gt;</p>	<p><b>No chk</b></p> <p>DATE  C_PAYMENT_DATE</p>
<p>PAY <b>WORD_AMT</b></p>	<p>CHECKAMOUNT \$</p>		
<p><b>TO THE ORDER OF:</b></p> <p><b>Ven_Name</b>  C_ADDR1  C_ADDR2  C_ADDR3  C_CITY C_STATE C_ZIP  ifC_COUNTRY_NAMEei</p>	<p>AUTHORIZED SIGNATURE MP</p> <p>BGif eiif ei</p> <p>AUTHORIZED SIGNATURE</p>		
<p>C 3 3 3 3 3 3 3 3 C A 3 3 3 3 3 3 3 3 A C</p>			

<?end template?>



# BI Publisher Check Creation Steps

- You can also use the template builder to preview the check output prior to loading the template into Oracle
- Load the data from your XML sample, then preview in PDF



# BI Publisher Check Creation Steps

- When you have completed your template, it is time to add the data definition for the report to XML Publisher Administrator
- This step provides the BI Publisher with the name of the report that it will be using for data

[Data Definitions](#) >

**View Data Definition: Kirby XML Checks**

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**General**

---

Name	Kirby XML Checks	Code	APXPBFEF
Application	Payables	Start Date	21-Nov-2008
End Date			

# BI Publisher Check Creation Steps

- Next Step is to register your newly created Template

**Templates**

**Search**

Name  Code

Application  Data Definition

Type  Active

---

Name	Application	Data Definition	Type	Start Date	End Date
<a href="#">Kirby Signed Check</a>	Payables	Kirby XML Check	RTF	21-Nov-2008	
<a href="#">Kirby Check Copy</a>	Payables	Kirby XML Check	RTF	01-Nov-2008	

# BI Publisher Check Creation Steps

- Run through your payables process and create the check

DATE:		Osprey Line, LLC. LABORDE PRODUCTS INC (39330)		No: 9452	
INVOICE NO.	INVOICE DATE	DESCRIPTION	DISCOUNT AMT	NET AMOUNT	
gdmcep	24-JUN-09		0.00	100.00	

<b>Osprey Line, LLC.</b> P.O. Box 1537 Houston Texas 77251	<b>WARNING</b> Do not accept this document unless you can see a true watermark, visible from both sides. Used this serial number and microtype signature lines.	JPMORGAN CHASE BANK N.A. DALLAS, TX 75201 30-611110	<b>No 3452</b>  DATE 24-JUN-09
--	---	---	--------------------------------------

<b>PAY</b> One Hundred Dollars And 00 Cents*****	<b>CHECK AMOUNT \$ 100.00</b>
--	-------------------------------

<b>TO THE ORDER OF:</b> LABORDE PRODUCTS INC PO BOX 429 COVINGTON, LA 70433-0429	_____ AUTHORIZED SIGNATURE
	_____ AUTHORIZED SIGNATURE


**C9452C AA 30802530103C**

# BI Publisher Check Creation - Keys

- Load your own font for the MICR
- Utilize a MICR gauge to measure
- Get the requirements from your bank before beginning
- Plan on multiple test cycles with your bank and making tweaks to the check spacing.

# Kirby - other

- Kirby also created AR Invoices with BI Publisher.
- The process was basically the same

<b>Kirby-Inland-Marine, LP</b>  P.O. Box 1537 Houston, Texas 77251-1537		<b>REMIT TO:</b> <<C_REMIT_TO_CONCATENATED??>> <<C_KIRBYX_REMIT_TO_PHONE??>>		<b>BILL TO:</b> <<C_BILL_TO_CONCATENATED??>>		<b>SHIP TO:</b> <<C_SHIP_TO_CONCATENATED??>>		<b>1</b> <<TRX_TYPE_NAME??>> <<TRX_NUMBER??>> DATE: <<TRX_DATE??>> → PAGES: <<To page number??>> of <<To page number??>> PURCHASE ORDER NUMBER??>> VOYAGES: <<Voyage??>> SALES ORDER NUMBER: <<INV_SALES_ORDER??>> CUSTOMER NUMBER: <<CUSTOMER_NUMBER??>> CREDIT TO LOCATION: <<CREDIT_TO_LOCATION??>>	
TERMS: <<TERM_NAME??>>	DUPLICATE: <<TERM_DUE_DATE_FROM_PST??>>	SALES PERSON: <<SALES_PERSON_NAME??>>	CUSTOMER CONTACT: <<CUSTOMER_CONTACT??>>	SHIP DATE: <<SHIP_DATE_ACTUAL??>>	CLASS: CARGO: <<CLASS_CARGO??>>	CONFIRM: <<CONFIRMATION??>>			
<b>1</b> <<Section Break (Next Page)>>									
ITEM NO:	INVOICE DESCRIPTION:	SERVICE DATE:	SHIPPED:	TAX:	UNIT PRICE:	EXTENDED AMOUNT:			
LINE NO	LINE DESCRIPTION	LINE SALES ORDER DATE	LINE QTY INVOICED	<<LINE TYPE E-TAX ?? Y <?e nd if??>>	→ *****	→ \$ → *****			
FILE						End_Amr			
Recursive_Template-?>id=template?><?if ATT_DOC_FILE_NAME=""?>									
Section Break (Next Page)									
Comments: <<CREATOR_COMMENTS??>>		SUBTOTAL	TAX	SHIPPING/HANDLING	TOTAL				
		\$<<2D_INV_ITEM_AMT UNIT??>>	\$<<2D_INV_TAX_AMOUNT??>>	\$<<2D_INV_FRBHT_AMOUNT??>>	\$<<2D_INV_ALL_AMOUNT??>> <<?INVOICE_CURRENCY_CODE??>>				

# Kirby - other

- Bursting to communicate the AR invoice via e-mail
- The Bursting Engine accepts a data stream and splits it based on multiple criteria to be delivered via a specific channel.
- E-mail and Printers are two ways that can be dynamically delivered via the bursting engine.
- A bursting file is added to the data definition.



# Kirby - Other

- Bursting File Example

```
<?xml version="1.0" encoding="UTF-8" ?>
- <xapi:requestset xmlns:xapi="http://xmlns.oracle.com/oxp/xapi" type="bursting">
- <xapi:request select="/RAXINV/LIST_G_ORDER_BY/G_ORDER_BY/LIST_G_INVOICE/G_INVOICE">
- <xapi:delivery>
- <xapi:email server="tkofweb2-2.kmtc.com" port="25" from="OracleSupport@kirbycorp.com" reply-to="OracleSupport@kirbycorp.com">
- <xapi:message id="123" to="{BILL_TO_CONTACT_EMAIL}" cc="" attachment="true" content-type="text/html" subject="Kirby Invoice Number: ${TRX_NUMBER}">
  <![CDATA[ <html><body>Please see attached Invoice File: ${TRX_NUMBER} <br/><br/>
  Thanks,<br/>
  Kirby Accounts Receivable Dept.<br/>
  </body></html> ]]>
  </xapi:message>
</xapi:email>
</xapi:delivery>
- <xapi:document output="{BILL_CUST_NAME}_${TRX_NUMBER}.pdf" output-type="pdf" delivery="123">
  <xapi:template type="rtf" location="xdo://AR.KIRBYX_Print_Invoice.en.US?getSource=true" />
</xapi:document>
</xapi:request>
</xapi:requestset>
```

# BI Publisher Benefits

## End Users

- Easy to use
- Consistent user interface
- Reports in multiple formats
- Multiple delivery channels

## Business Analysts

- Uses familiar tools to prototype reports
- Allows focus on business requirements
- Increases productivity

## Reporting Specialist

- Report matches prototype
- Reduces maintenance
- Faster results

## Developer

- Focus on data provisioning
- More time for strategic, value-add initiatives

# Questions?

## Thank you

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