



**COLLABORATE19**

TECHNOLOGY AND APPLICATIONS FORUM  
FOR THE ORACLE COMMUNITY

# Account Receivables eInvoicing

**Session ID:**

**11241**

**Prepared by:**

**Venkanna Mittakanti**

Lead Oracle Apps Analyst

Siemens Corporation

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

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**#C19TX**

## About the speaker



- Over 20 years of experience working with Oracle EBS and Oracle technologies, focusing on implementing, designing, developing and maintaining of Oracle EBS since 2002.
- Have worked 7 years with Oracle Corporation for the EBS product development
- Specializing in Supply-Chain modules implementations and solutions since 2013
- Currently working at Siemens Corporation as Lead Oracle Apps Analyst
- Board Member - Texas-Louisiana Oracle Applications User Group(TLOAUG)
- Active member of Toastmasters International

# Agenda

- Overview of eInvoicing Solution
- Business Benefits
- Business Flow
- Technical Architecture
- Setup
- Technical Details
- Questions?

# Overview of eInvoicing Solution

- Sends AR invoice PDF Doc automatically to customers via email. The same email is copied to AR Invoicing Dept as well.

Invoices & Credit Memos would be generated from OM/Projects or Created manually.

- Customers are enabled for eInvoicing using EDI Trading Partner setup. Secondly, Specific AR Transaction Sources (Order Management/Projects) are enabled.

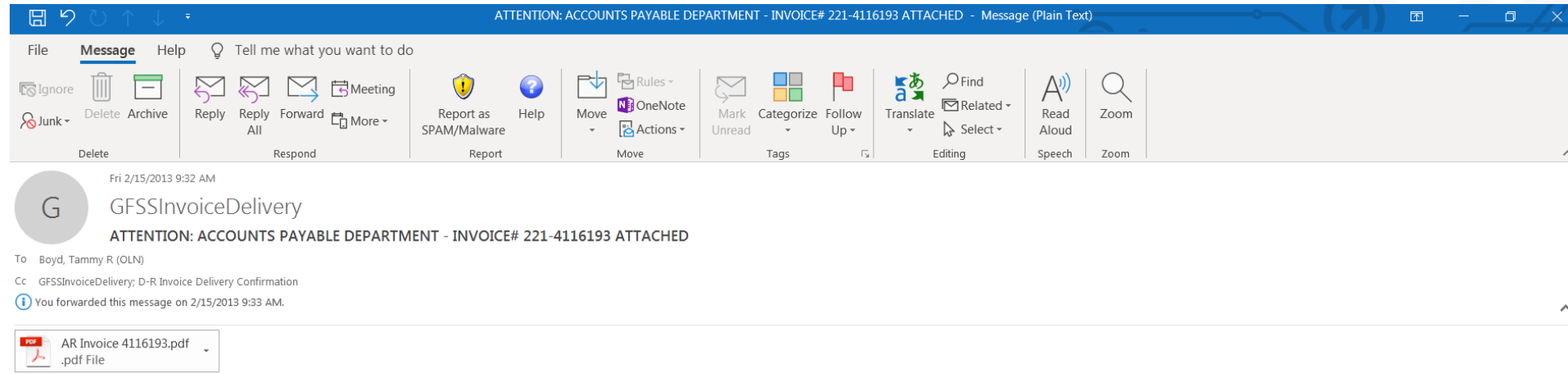
Combination of Customer TP setup and AR Transaction Source are control the output of the Invoice document delivery via Email / B2B XML / EDI

- System runs XXX Invoice Email New Invoices concurrent program in regular internals to send all the eligible invoices to Customer(s).
- It has functionality to resend the selected invoice(s) by running XXX Print Selected Invoice concurrent program when customer asks for copy of the invoice document via email.

# Overview of eInvoicing Solution

- Invoice Types (Credit Memo/Invoice) are enabled thru Trading Partner setup only.
- Technology Stack: Oracle EBS – Oracle Reports and XML Publisher
- The process would mark the AR Invoice record as printed to indicate that it was sent for audit & tracking purposes.

# Sample AR Invoice Email



The screenshot shows an email client window titled "ATTENTION: ACCOUNTS PAYABLE DEPARTMENT - INVOICE# 221-4116193 ATTACHED - Message (Plain Text)". The interface includes a ribbon with tabs for "File", "Message", and "Help". The "Message" tab is active, displaying various actions like "Ignore", "Delete", "Archive", "Reply", "Reply All", "Forward", "Meeting", "More", "Report as SPAM/Malware", "Help", "Move", "OneNote", "Actions", "Mark Unread", "Categorize", "Follow Up", "Translate", "Find", "Related", "Select", "Read Aloud", and "Zoom". The email header shows the sender as "GFSSInvoiceDelivery" with a profile picture of a 'G' in a circle. The subject is "ATTENTION: ACCOUNTS PAYABLE DEPARTMENT - INVOICE# 221-4116193 ATTACHED". The recipient is "Boyd, Tammy R (OLN)". The email body contains the following text:

Accounts Payable Department,

Invoice as listed below is attached for processing. Should you have any questions please feel free to reply to this email.

221-4116193

Regards,

Client Invoicing Department  
Global Financial Shared Services  
500 Paul Clark Drive, Olean, NY 14760  
T: (716) 375-3000 / F: (716) 375-3842  
[www.dresser-rand.com](http://www.dresser-rand.com) NYSE: DRC

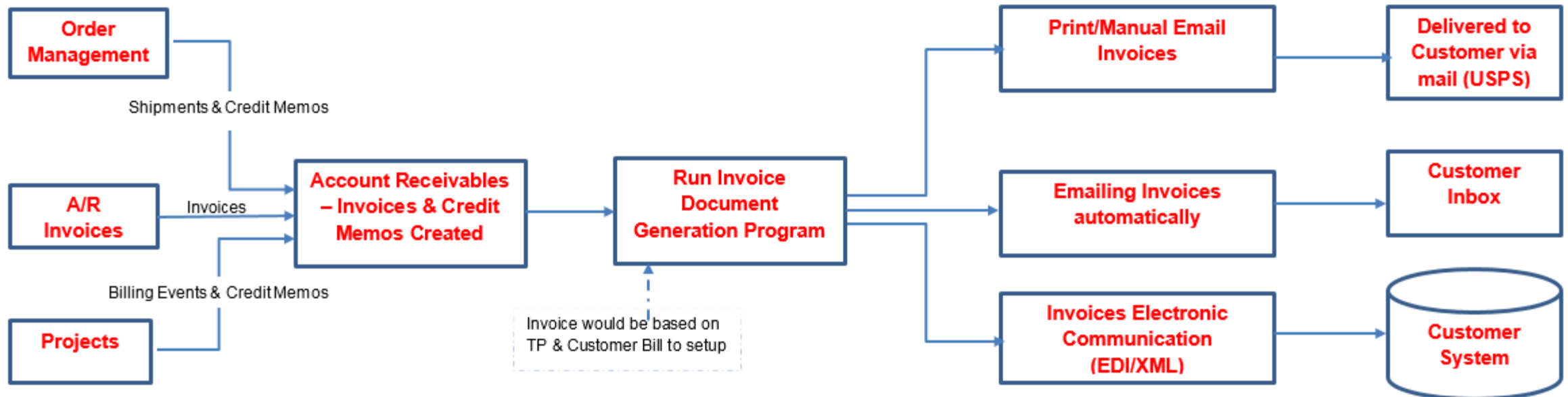
**IMPORTANT NOTICE:**

This email may be confidential, may be legally privileged, and is for the intended recipient only. Unauthorized access, disclosure, copying, distribution, or reliance on any of it by anyone else is prohibited and may be a criminal offense. Please delete if obtained in error and email confirmation to the sender.

# Business Benefits

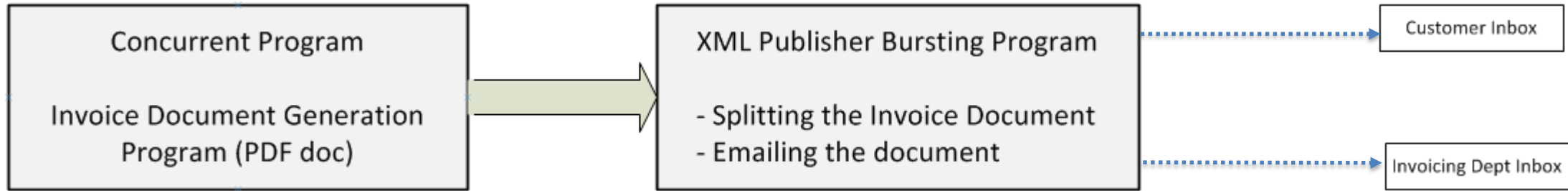
- Improved on time delivery of invoices. Helps to receive the payments on-time
- Automation drives significant reduction in manual efforts to send the invoices and minimizes labor cost
- Decreased touch time and avoiding data entry errors

# Business Flow





# Technical Architecture



# Setup

- Used eCommerce Gateway functionality to setup eInvoicing Trading Partners and transaction type.
- Defined “OUT:XX Invoice(EMAIL/INVOIC)” (XXXEINO) custom transaction type for eInvoicing similar to “OUT: Invoice (810/INVOIC)” (INO) seeded Trx type.

The screenshot shows the 'e-Commerce Gateway Lookups' window. The form fields are as follows:

Type	DOCUMENT
Meaning	DOCUMENT
Application	e-Commerce Gateway
Description	

Access Level options:

- User
- Extensible
- System

Effective Dates: — Effective Dates — Enabled

Code	Meaning	Description	Tag	From	To	Enabled
DREINO	OUT:DR Invoice(EMA	Email Invoice Outbound		18-OCT-2012		<input checked="" type="checkbox"/>
						<input type="checkbox"/>

# Setup

- Defined Invoice, Credit Memo and Debit Memo sub transaction types for “OUT:XX Invoice(EMAIL/INVOIC)” Transaction Type

e-Commerce Gateway Lookups

Type: **DREINO:DOCUMENT\_TYPE**

Meaning: **DREINO:DOCUMENT\_TYPE**

Application: e-Commerce Gateway

Description:

Access Level:  
 User  
 Extensible  
 System

Effective Dates: \_\_\_\_\_ Enabled

Code	Meaning	Description	Tag	From	To	Enabled	[ ]
CM	Credit Memo			18-OCT-2012		<input checked="" type="checkbox"/>	
DM	Debit Memo			18-OCT-2012		<input checked="" type="checkbox"/>	
INV	Invoice			18-OCT-2012		<input checked="" type="checkbox"/>	
						<input type="checkbox"/>	

# Setup

- Customer Bill To accounts are setup as eInvoicing Trading Partners. Customer email address is captured as part of the Trading Partner setup.
- Customer maintenance is required for each customer in each Operating Unit.
- Enabling specific AR Transaction Sources using Custom Lookup for eInvoicing. Capturing additional info also like Invoicing Dept From Email Address & Invoicing Dept Email Address as part of custom lookup.

The screenshot shows the 'Application Object Library Lookups' window. The main form has the following fields:

- Type: DRAR\_INV\_EMAIL\_ENAB\_TRX\_SOURCE
- Meaning: DRAR Invoice Email Enable Transaction Sources (OU)
- Application: DR Accounts Receivable
- Description: Enabling Transaction Sources for AR Invoice Email (OU)
- Access Level:  User,  Extensible,  System
- Effective Dates: From: 03-JUL-2012, To: (empty)
- Enabled:

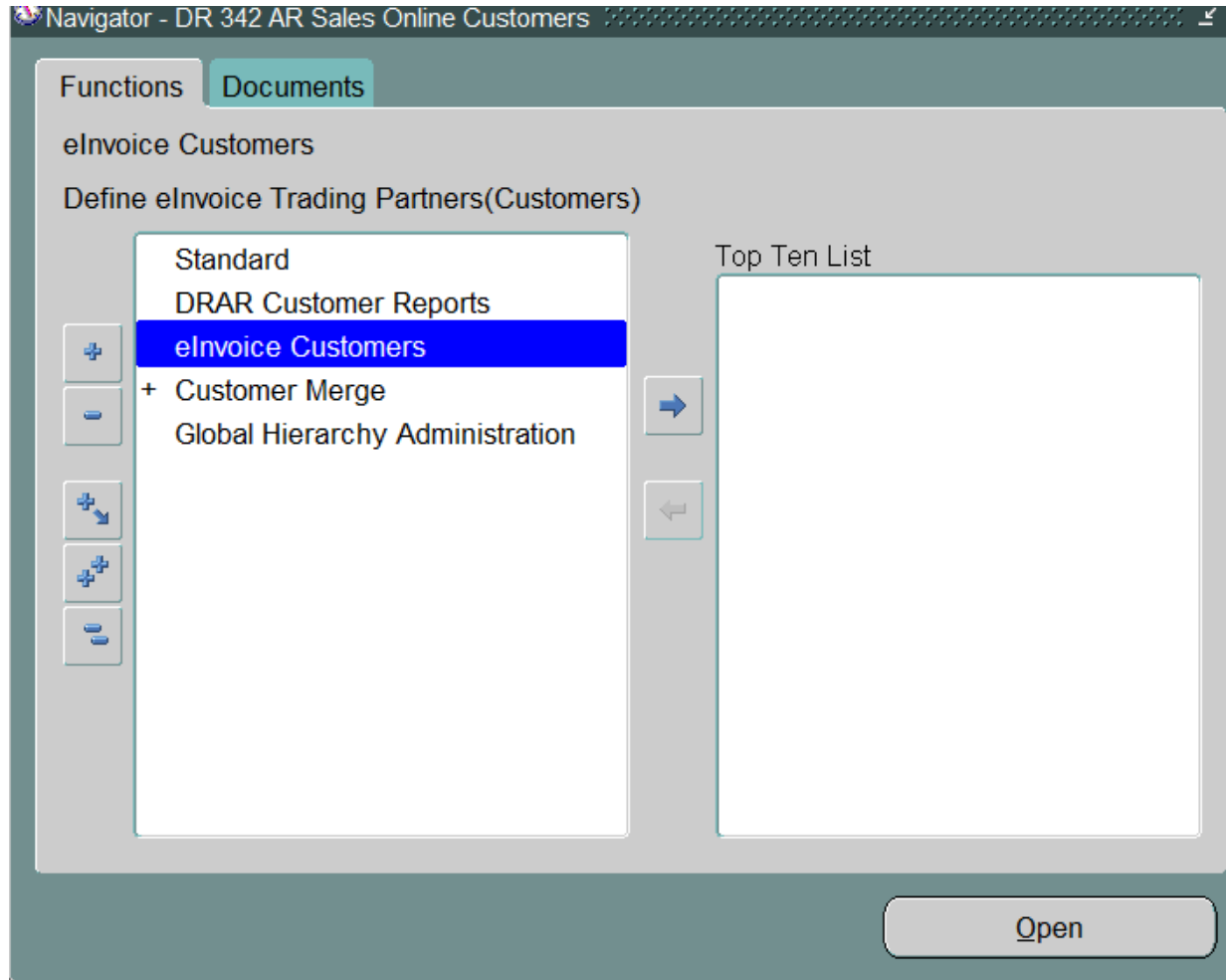
Code	Meaning	Description	Tag	From	To	Enabled
1	PAINTED POST - OM	PAINTED POST - OM S		03-JUL-2012		<input checked="" type="checkbox"/>

A 'Common Lookups' dialog box is open, showing the following details for the selected lookup:

- Operating Unit: PAINTED POST | NAO-342 (OU)
- Transaction Source: ORDER MANAGEMENT (Order Management Batch Source)
- DR From Email Address: InvoiceDelivery.pgdr.energy@siemens.com
- DR CC Email Address: InvoiceDelivery.pgdr.energy@siemens.com
- Email Body AOL Message: (empty)

Buttons: OK, Cancel, Clear, Help

# Setup – Trading Partner



# Setup – Trading Partner

Trading Partner Groups

Operating Unit: PAINTED POST | NAO-  
Group: Email AR Invoice Customers  
Description: Email AR Invoice Customers

Trading Partners

<input checked="" type="checkbox"/>	ADVANSIX I	ADVANSIX INC #28475 (342)
<input type="checkbox"/>	ADVANSIX II	ADVANSIX INC #28475 (800)
<input type="checkbox"/>	ADVANSIX II	ADVANSIX INC #28475 (USF)
<input type="checkbox"/>		
<input type="checkbox"/>		

New Open

# Setup – Trading Partner

Define Trading Partner

Operating Unit: PAINTED POST | NAO-  
Partner: ADVANSIX INC #28475 (342)  
Reference 1: #28475  
Reference 2:   
Description: ADVANSIX INC #28475 (342)

Assignment | Contact | Details

	Name	Site	EDI Location
Customer	HONEYWELL INTERNATIONAL	EL PASO TX	
Supplier			
Bank Branch			
HR Location			

# Setup – Trading Partner

Define Trading Partner

Operating Unit PAINTED POST | NAO- Reference 1 #28475  
Partner ADVANSIX INC #28475 (342) Reference 2  
Description ADVANSIX INC #28475 (342)

Assignment Contact Details

Name Title  
Country  
Address Email PMTUSinvoice981237@Honeywell.com  
Phone  
Fax  
City State Postal Code  
Province



# Setup – Trading Partner

Define Trading Partner

Operating Unit: PAINTED POST | NAO-  
Partner: ADVANSIX INC #28475 (342)  
Description: ADVANSIX INC #28475 (342)

Reference 1: #28475  
Reference 2: [ ]

Assignment | Contact | Details

Transaction	Type	Translator Code	Document Standard	Map	Map Type	Enabled	Test	[ ]
<input checked="" type="checkbox"/> OUT:DR Invoice(EMAIL ...	Invoice			EMAIL_DREINC	EMAIL	<input checked="" type="checkbox"/>	<input type="checkbox"/>	[ ]
<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	[ ]
<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	[ ]
<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	[ ]
<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	[ ]

# Concurrent Program Details

- **XXX Invoice Email New Invoices concurrent program** –The program is run /scheduled in order for invoices to sent via email.

The program works similar to XXX Invoice Print New Invoices. It emails newly generated(never printed/emailed) invoices only to the trading partner enabled customers. The program emailed invoices which are transaction source(s) and transaction type(s) enabled only.

- To email a single invoice (or a small group) run Concurrent Program - XXX Selected Invoice Print program with Email parameter to yes

# Concurrent Program Details

**Submit Request**

Run this Request... Copy...

Name: DRAR Invoice Email New Invoices

Operating Unit: [Empty]

Parameters: [Empty]

Language: American English

At these Times...  
Run the Job: As Soon as Possible

Upon Completion...  
 Save all Output Files

Layout: DRAR Invoice Email New Invoices

Notify: [Empty]

Print to: noprint

**Parameters**

Order By: Transaction Number

Transaction Class: [Empty]

Transaction Type: [Empty]

Source: [Empty]

Print Date Low: [Empty]

Print Date High: [Empty]

Installment Number: [Empty]

Open Invoices Only: Yes

Print Bank Details: Yes

Tax Registration Number: 20-1897619

OK Cancel Clear Help

# Concurrent Program Details

Submit Request

Run this Request...

Name **DRAR Invoice Print Selected Invoices**

Operating Unit **PAINTED POST | NAO-342 (OU)**

Parameters

Language **American English**

Copy...

At these Times...

Run the Job **As Soon as Possible**

Upon Completion...

Save all Output Files

Layout **DRAR Invoice Print Selected Invoices**

Notify

Print to **noprint**

Help (C)

Parameters

Order By **Transaction Number**

Transaction Class

Transaction Type

Transaction Number Low

Transaction Number High

Project / Order Number

Source

Print Date Low

Print Date High

Customer Class

Customer

Installment Number

Open Invoices Only **Yes**

Print Bank Details **Yes**

Tax Registration Number **20-1897619**

Email Invoices **Yes**

OK Cancel Clear Help

# Technical Details

- Customized Invoice Print report (RAXINV.rdf) to add eInvoicing validation rules
  - ✓ Checking Customer Bill To account is setup as eInvoicing Trading Partner
  - ✓ Checking Invoice Trx Source and transaction type are enabled for eInvoicing
  - ✓ Get the below field details
    - From, To, CC and Reply-To Email Addresses
    - Email Server
    - Email Subject and Email Body text
- Internally Run XML Publisher Bursting program to split the invoices document by Invoice Number, then send to customer's email address



The screenshot shows a window titled "Requests" with three buttons at the top: "Refresh Data", "Find Requests", and "Submit a New Request...". Below the buttons is a table with the following columns: Request ID, Name, Parent, Phase, Status, and Parameters.

Request ID	Name	Parent	Phase	Status	Parameters
93297743	Bursting DRAR Invoice Em		Completed	Normal	N, 93297688, Y, , , , , , , , , , ,
93297688	DRAR Invoice Email New Ir		Completed	Normal	TRX_NUMBER, , , , , , Y, Y, I

## Technical Details

- Below columns are updated in RA\_CUSTOMER\_TRX\_ALL Once the invoice document is generated with communication method.

EDI\_PROCESSED\_STATUS = EMAIL

PRINTING\_COUNT

PRINTING\_LAST\_PRINTED

PRINTING\_ORIGINAL\_DATE

PRINTING\_PENDING

LAST\_PRINTED\_SEQUENCE\_NUM

# Technical Details – Bursting Control File

```
<?xml version="1.0" encoding="UTF-8" ?>
<xapi:requestset xmlns:xapi="http://xmlns.oracle.com/oxp/xapi" type="bursting">
  <xapi:request select="/DRARINV/LIST_G_ORDER_BY/G_ORDER_BY/LIST_G_INVOICE/G_INVOICE">
    <xapi:delivery>
      <xapi:email server="{CP_DR_EMAIL_SERVER}" port="25" from="{CP_DR_FROM_EMAIL}" reply-to="{CP_DR_FROM_EMAIL}">
        <xapi:message id="MsgId" to="{CF_CUST_EMAIL}" cc="{CP_DR_CC_EMAIL}" attachment="true" content-type="html/text" subject="{CP_EMAIL_SUB}">
          {CP_EMAIL_BODY}
        </xapi:message>
      </xapi:email>
    </xapi:delivery>
  <xapi:document output="AR Invoice ${TRX_NUMBER}" output-type="pdf" delivery="MsgId">
    <!-- vmittakanti 03dec12 Reading template dynamically works in R12 without any patch and commented hard coded templates -->
    <!-- <xapi:template type="rtf" locale="en-US" location="xdo://DRAR.DRARINV.en.US/?getSource=true" filter="//G_INVOICE[CP_TEMPLATE_LANG_TERR='en-US']" /> -->
    <xapi:template type="rtf" location="{CP_XMLP_TEMPLATE_LOC}/?getSource=true"/>
  </xapi:document>
</xapi:request>
</xapi:requestset>
```



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# Q&A

venkanna.mittakanti@siemens.com

**Session ID:**

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

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