

About the Presenter

- John Peters, JRPJR, Inc
 - Independent Consultant based in the San Francisco Bay Area
 - Worked with Oracle EBS since 1993
 - OAUG Workflow SIG Coordinator
 - Founding board member of the Northern California OAUG GEO
 - Presented many papers at many conferences:
<http://jrpjr.com> (paper archives)
 - john.peters@jrpjr.com
- Primarily Technology Focus
 - DBA/System Administration
 - Extension/Customization Design and Development



APEX - Applications Express

- This talk is an abbreviated version of my talk later in the week
 - Extend EBS Using Applications Express
 - Friday, April 11, 9:45-10:45
 - Sands, Level 1 – 305
- I will be going into more detail on APEX and some of the things you can do with it to enhance your EBS Environment



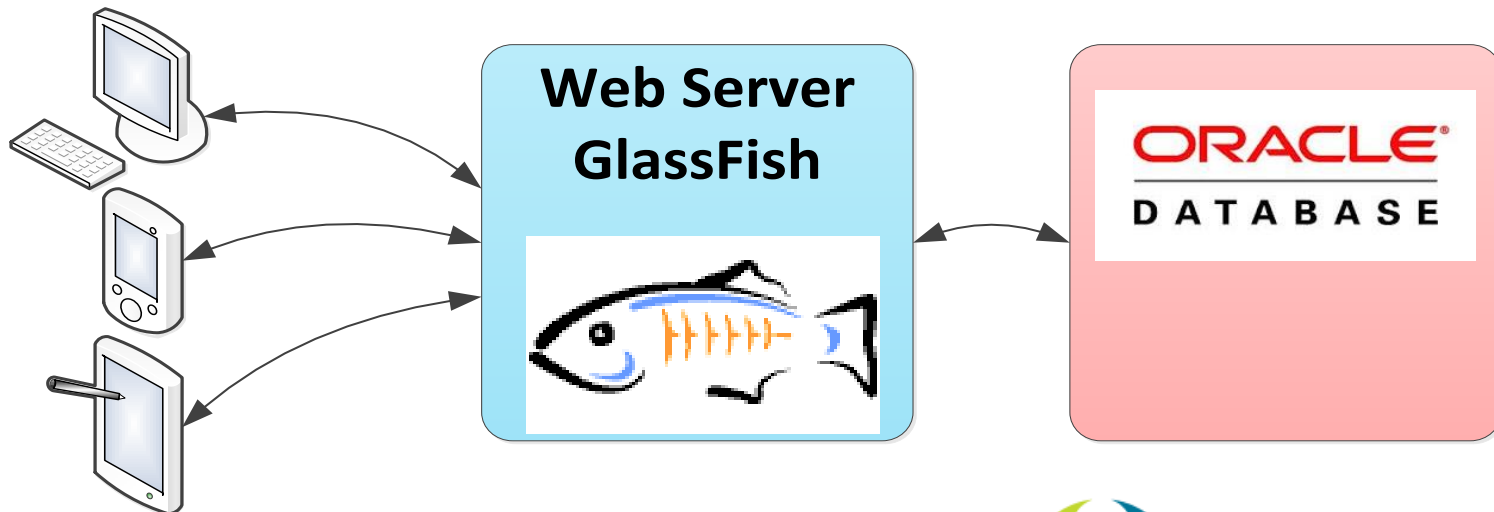
APEX - Background

- Started out in 2004 as HTML DB
- Now up to version 4.2.4, released 12/2013
- Well accepted by the EBS ATG team and encourage it's use as a lightweight extension platform
 - https://blogs.oracle.com/stevenChan/entry/new_whitepaper_upgrading_your_customizations
 - Extending Oracle E-Business Suite Release 12 using Oracle Application Express (APEX) (Doc ID 1306563.1)
 - How to Integrate APEX with Oracle eBusiness Suite and Set Up Authentication (Doc ID 373604.1)
- Best of all it is **FREE**, it is included in your Oracle DB License



APEX - Architecture

- Applications Express is a browser based Rapid Application Development and Runtime tool
- The resulting application is a set of PL/SQL packages and Metadata in your Oracle Database
- A Web Listener connects the user's browser to the Oracle Database, typically Oracle APEX Listener or GlassFish
- You can leverage the EBS User Authentication and Authorization scheme



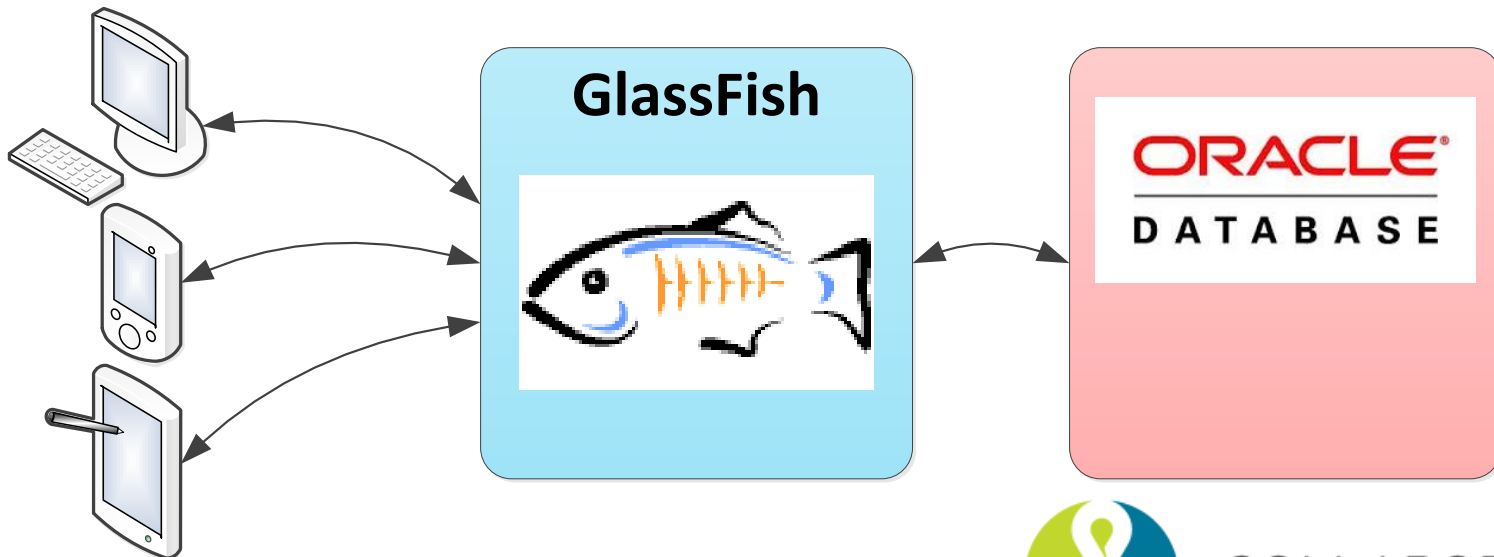
APEX - Development

- Development is done in an APEX Workspace
 - You can have an infinite number of Workspaces
 - The Workspace defines the DB user connection
 - A workspace typically defines an Application
 - You can migrate Workspaces from DB to DB
- Templated, Wizard based development
- Many sample applications available to get you started
- Expose your EBS objects as Views with select grants
- Can be reports, but you can also do updates using EBS APIs



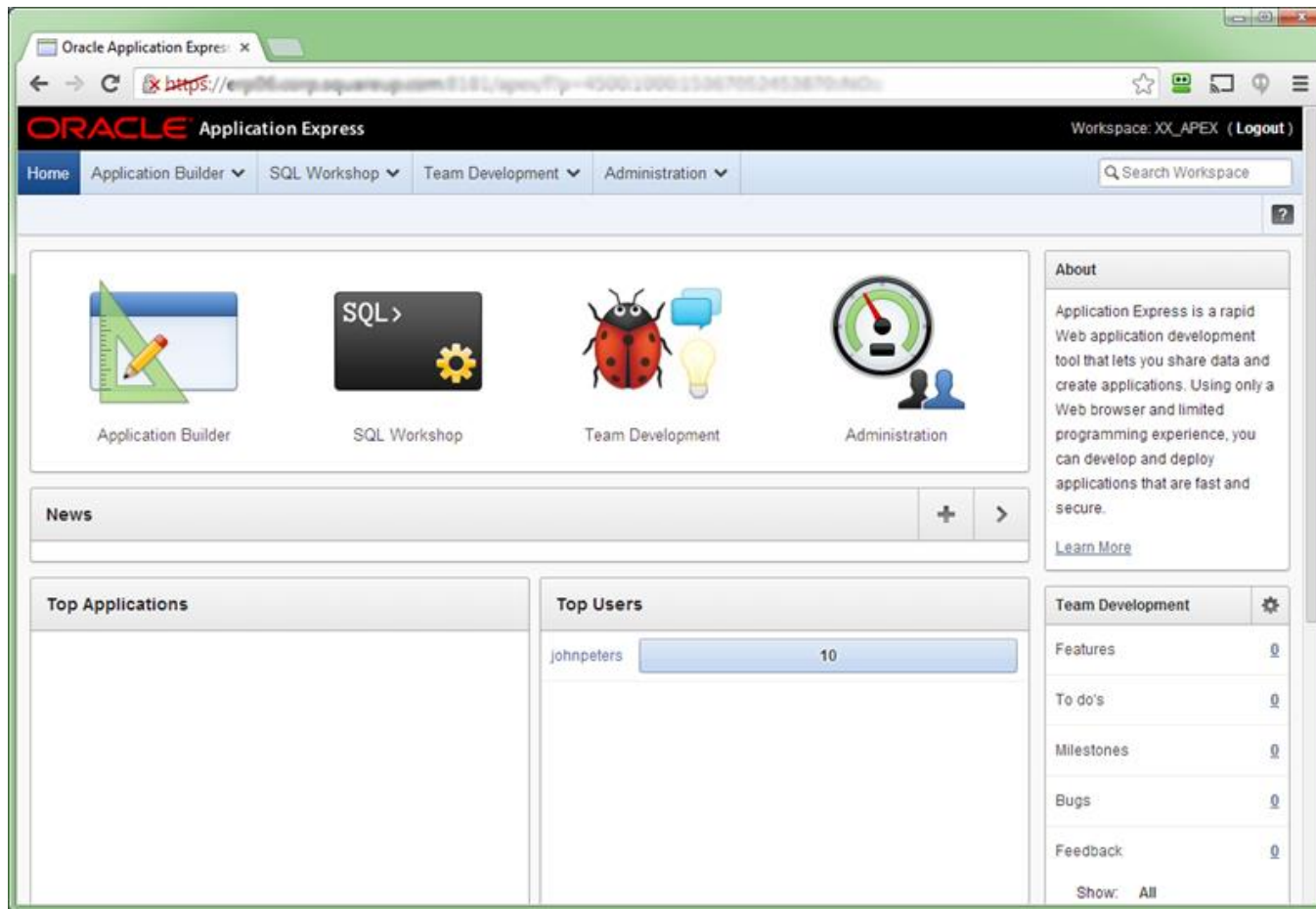
APEX - Mobile Architecture

- Your resulting APEX application can run in any browser on any device: PC, SmartPhone, Tablet, etc
- An APEX application must always have a live connection to the database, there is no “offline” capability, so the mobile device will need a VPN connection



APEX – Rapid Development Environment

Browser Based Development Environment

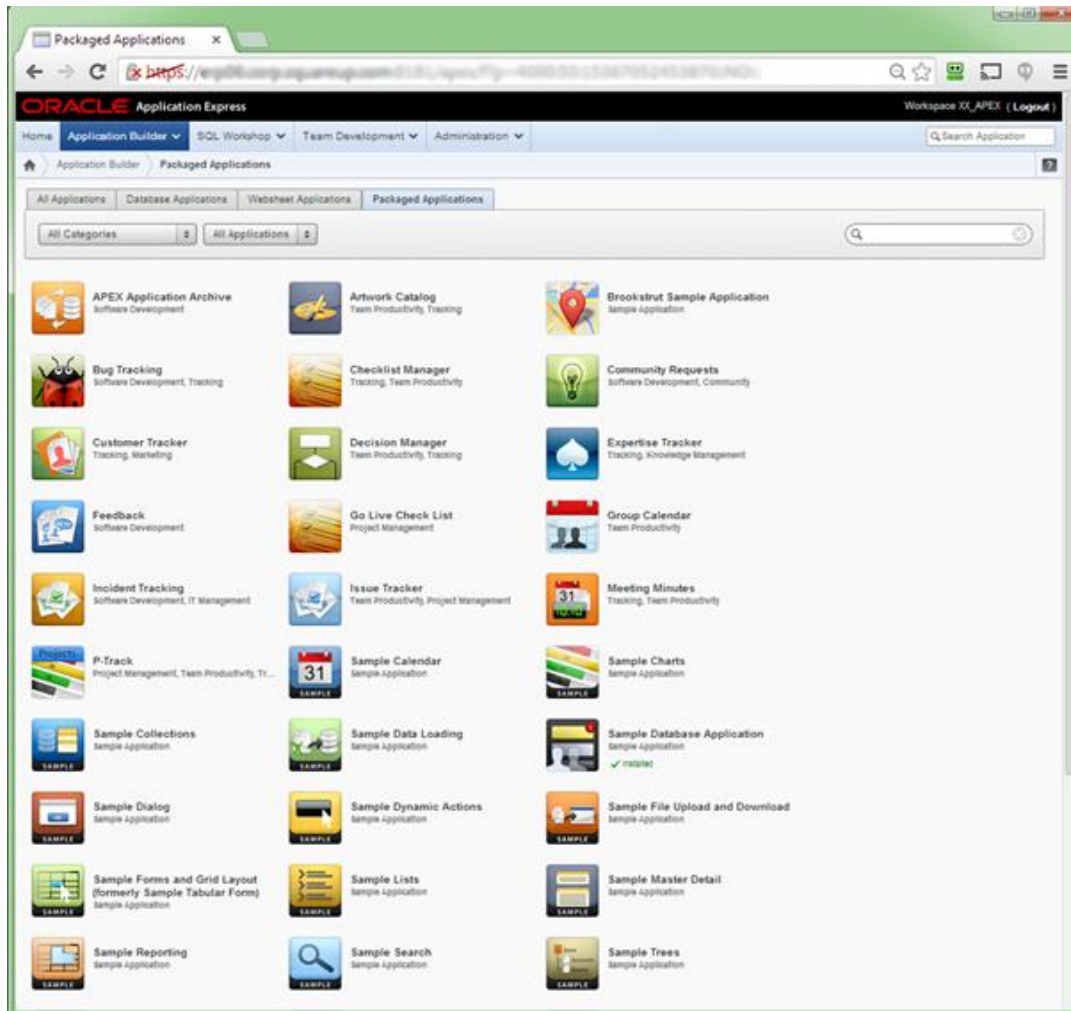


COLLABORATE14

TECHNOLOGY AND APPLICATIONS FORUM
FOR THE ORACLE COMMUNITY

APEX – Packaged Applications

Many prebuilt sample packed applications to start and learn from



APEX – Templated Development

Template based development making it very easy to build pages

The screenshot shows the Oracle APEX Application Builder interface. The top navigation bar includes 'Home', 'Application Builder', 'SQL Workshop', 'Team Development', and 'Administration'. The main breadcrumb is 'Application Builder > Create Application'. A progress bar indicates the current step is 'Pages'. Below the progress bar, there are buttons for 'Cancel', 'Create Application', and 'Next'. A table lists the existing pages:

Page	Page Name	Page Type	Source Type	Source	Delete
1	Home	Blank	-	-	X

Below the table is the 'Add Page' section. It includes a 'Select Page Type:' area with radio buttons for 'Blank', 'Report', 'Report and Form', 'Form', 'Tabular Form', 'Master Detail', and 'Chart'. The 'Report' option is selected. Below this, there are configuration fields: 'Action: Add a report', 'Subordinate to Page: Home (1)', 'Page Source: Table', 'Table Name: DEMO_ORDERS', and 'Implementation: Interactive'.



APEX – Page Oriented

- Each APEX page defines a table/query
- Pages can be stand alone reports or charts
- You can link together your pages to build an application

The screenshot displays the Oracle APEX Application Builder interface. The main workspace shows 'Application 101 - Sample Database Application' with an 'Edit Application Properties' button. Below this are five icons representing different actions: Run Application, Supporting Objects, Shared Components, Utilities, and Export / Import. A search bar and a 'Create Page' button are also visible. The main content area features a table listing application pages.

Page	Name	Updated	Updated By	Page Type	User Interface	Group	Lock	Run
0	Page Zero	1.5 years ago	-	Global Page	Desktop	Desktop	🔒	▶
1	Sample Database Application	10 months ago	-	Home	Desktop	Desktop	🔒	▶
2	Customers	1.5 years ago	-	Interactive Report	Desktop	Desktop	🔒	▶
3	Products	10 months ago	-	Interactive Report	Desktop	Desktop	🔒	▶
4	Orders	10 months ago	-	Interactive Report	Desktop	Desktop	🔒	▶
5	Sales by Category / Month	1.2 years ago	-	Chart	Desktop	Desktop	🔒	▶

On the right side, there is an 'About' section with text explaining that applications are made up of pages and that controls are called shared components. Below that is a 'Tasks' section with options like 'Delete this Application', 'Copy this Application', and 'Hide Icons'. At the bottom right, there is a 'Recently Edited Pages' section listing pages like '4. Orders', '20. Product Info', '12. Enter New Order', '1. Sample Database Application', '1001. Login Page', and '216. Create Order'.



APEX – Develop a Query

- Develop a Query in TOAD, SQL*Developer, or even APEX's own SQL Workshop

The screenshot shows the Oracle SQL Workshop interface in a browser window. The browser address bar shows a URL starting with 'https://'. The page title is 'ORACLE Application Express' and the workspace is 'XX_APEX (Logout)'. The navigation menu includes 'Home', 'Application Builder', 'SQL Workshop', 'Team Development', and 'Administration'. The main content area features five icons: 'Object Browser', 'SQL Commands', 'SQL Scripts', 'Utilities', and 'RESTful Services'. Below these icons are two panels: 'Recently Created Tables' and 'Recent SQL Commands'. The 'Recently Created Tables' panel lists several tables, all created 8 hours ago. The 'Recent SQL Commands' panel shows 'No SQL commands found'. On the right side, there are sections for 'About', 'Preference' (with a 'Schema' dropdown set to 'XX_APEX' and a 'Set' button), and 'Tasks' (with a 'Create Database Object' button).

Recently Created Tables	
DEMO_TAGS_TYPE_SUM	8 hours ago
DEMO_TAGS_SUM	8 hours ago
DEMO_TAGS	8 hours ago
DEMO_STATES	8 hours ago
DEMO_CONSTRAINT_LOOKUP	8 hours ago
DEMO_ORDER_ITEMS	8 hours ago
DEMO_ORDERS	8 hours ago

Recent SQL Commands	
No SQL commands found	



APEX is Just a Development Tool

- APEX is just a tool, we need to provide the Framework that provides:
 - **Authentication**
Verifying who a user is when they login to your APEX Application
 - **Authorization**
Determining what that specific user is able to see and do in your APEX Application



APEX – Integration with EBS

■ Authentication

We can use EBS Authentication to ensure the person is who they say they are. This uses the standard EBS Userid/Passwords. You can also integrate with EBS supported SSO mechanisms.

■ Authorization

We can also use EBS Responsibilities to identify what APEX screens they can access.

- You can even register APEX pages as EBS Form Functions allowing you to put APEX page links in EBS Menus



Example #1

Reporting Application



APEX – A Sample Framework

The screenshot shows an APEX Reporting application interface. Red annotations highlight several key components:

- Navigation Menu:** A horizontal menu at the top with tabs for AP, AR, FA, GL, IT, and Fixed Assets.
- Find a Report:** A search box with a 'Go' button, a 'Rows' dropdown set to 10, and an 'Actions' dropdown.
- Report List:** A table listing various reports with columns for Report, Type, and Tab.
- Session Information:** A section displaying user and session details.
- Tab Security:** A section titled 'Tab Security (why can't I access a tab?)' showing a list of tabs and their required responsibilities.
- Your Responsibilities:** A table listing the user's current responsibilities.

Report	Type	Tab
AP Invoice Lines	Report	Fixed Assets
COA List	Report	General Ledger
COA Parent Children	Report	General Ledger
Cash Operating Expenses	Report	Cash Management
GL Drill Down 1 - Accounts	Report	General Ledger
GL Drill Down 1 - Detail Balances	Report	General Ledger
GL Interface List	Report	General Ledger
L2 - Payables Journal	Report	Fixed Transactions
L2 - Payables Journal > Journal	Report	Fixed Transactions
L2 - Payables Source	Report	Fixed Transactions

Environment	8006V
Environment Description	Stuans LAMP on 8006V 02/03/14
User	JOHNPETERS
Session	8063859010366

Tab	Required Responsibility
Accounts Payable	Application Developer
Accounts Receivable	System Administrator
Cash Management	Inventory
Fixed Assets	Functional Administrator
General Ledger	Functional Developer
Information Technology	GL Super User - 8006V

User	Responsibility	End Date	User id
JOHNPETERS	Application Developer	01-Jan-9999	1112
JOHNPETERS	System Administrator	01-Jan-9999	1112
JOHNPETERS	Inventory	01-Jan-9999	1112
JOHNPETERS	Functional Administrator	01-Jan-9999	1112
JOHNPETERS	Functional Developer	01-Jan-9999	1112
JOHNPETERS	GL Super User - 8006V	01-Jan-9999	1112
JOHNPETERS	Application Diagnostics	01-Jan-9999	1112
JOHNPETERS	Fixed SuperUser	01-Jan-9999	1112
JOHNPETERS	GL Super User - 8006V	01-Jan-9999	1112

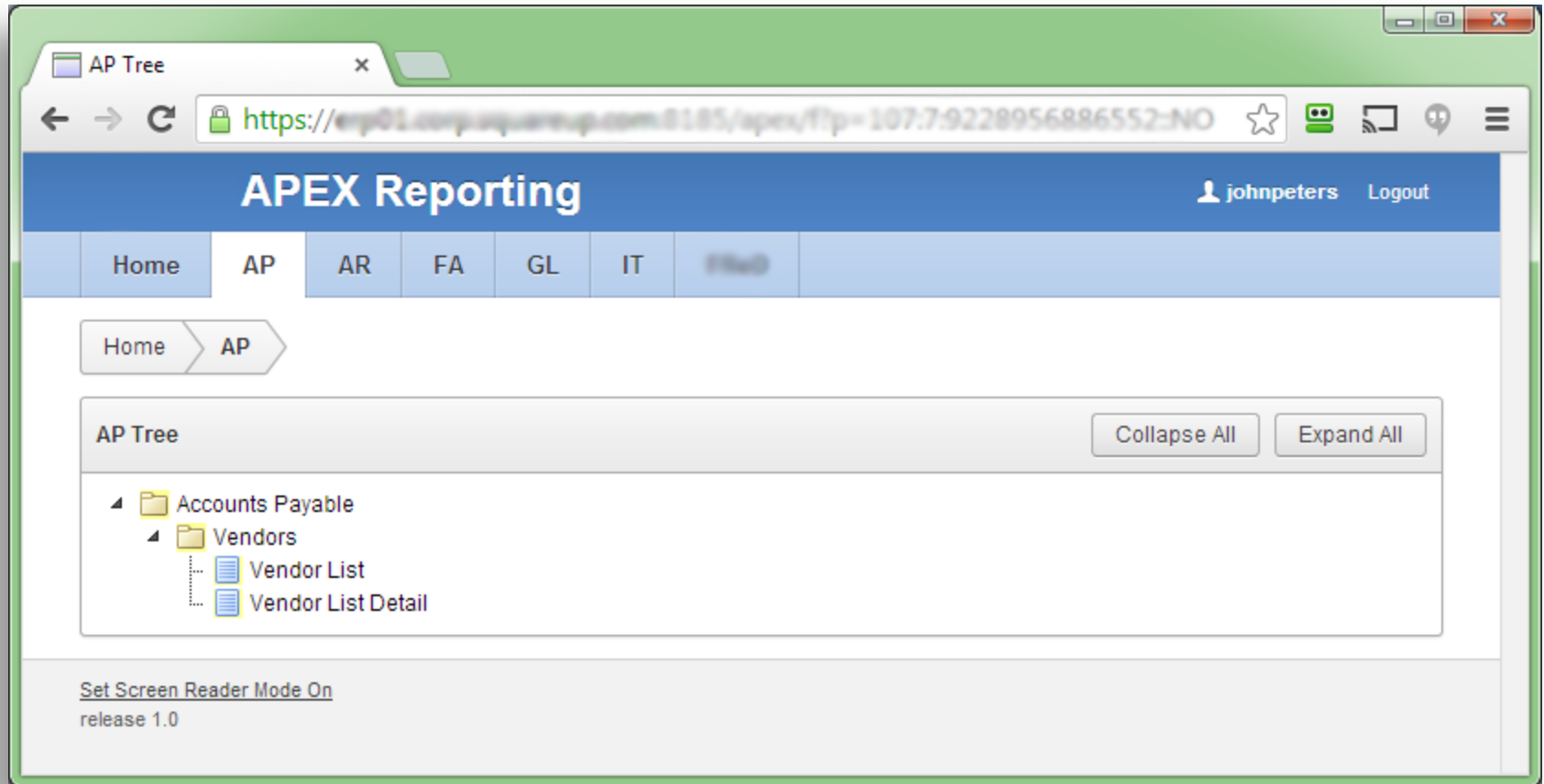


APEX – Framework Organization

- In this example the client organized reporting areas as tabs
- Authentication is tied to EBS FND_USER logins/passwords
- Authorization is tied to EBS Responsibilities assigned to the user
- Sets of responsibilities link to report area tabs
- The following are examples of reports under each tab



APEX – AP Tab



APEX – GL Tab

The screenshot displays a web browser window with the URL <https://erp01.corp.squareup.com:8185/apex/f?p=107:13:9228956886552:NO>. The page title is "APEX Reporting" and the user is logged in as "johnpeters". The navigation menu includes "Home", "AP", "AR", "FA", "GL", "IT", and "FIN". The "GL" tab is selected, and the breadcrumb shows "Home > GL".

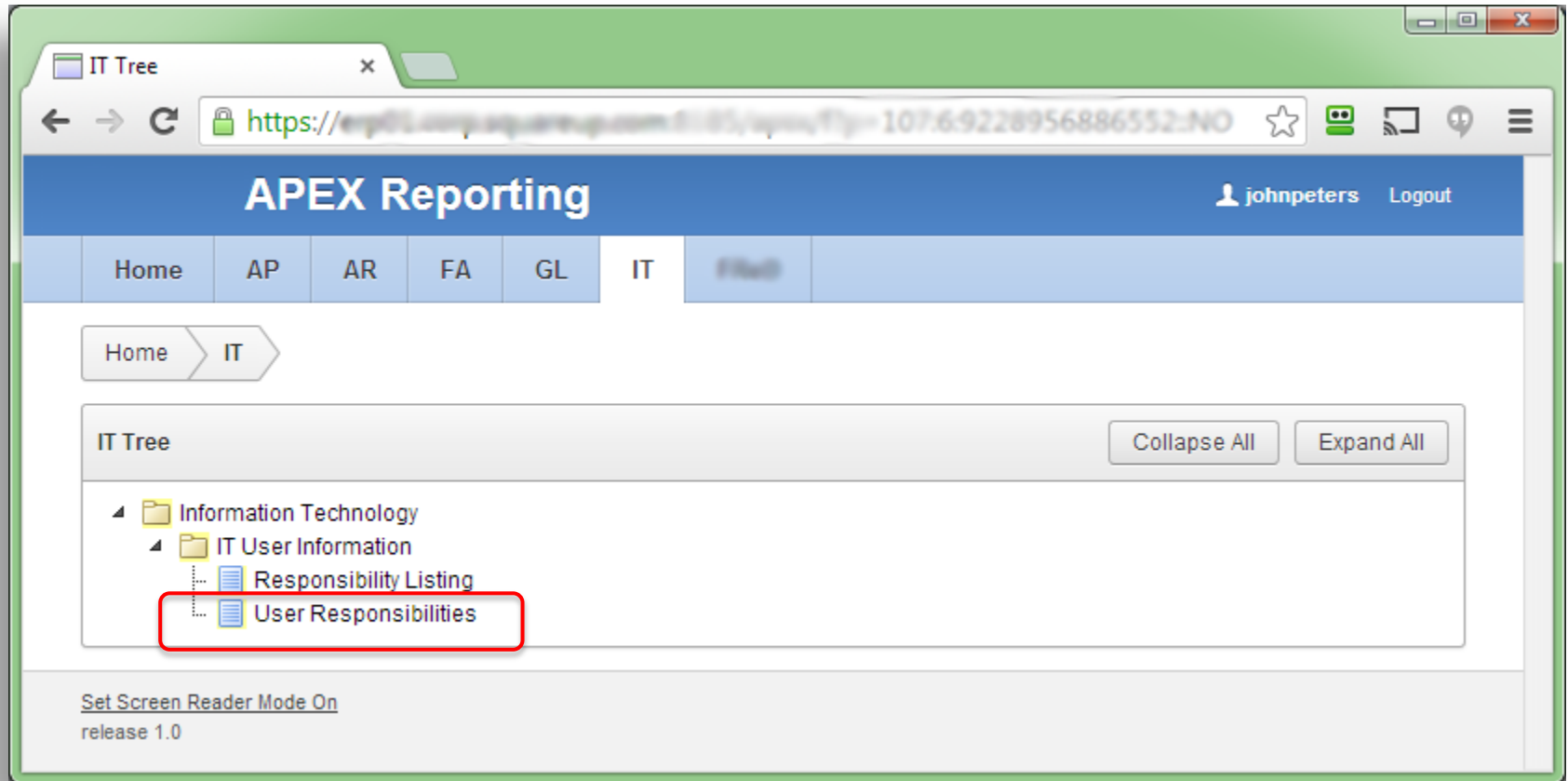
The main content area is titled "GL Tree" and contains a tree view of the General Ledger structure. The tree is expanded to show the following items:

- General Ledger
 - GL COA
 - COA List
 - COA Parent Children
 - GL Drill Down
 - GL Drill Down 1 - Accounts
 - GL Drill Down 1 - Detail Balances
 - GL Interface
 - GL Interface List

Buttons for "Collapse All" and "Expand All" are located at the top right of the tree view. At the bottom left, there is a link for "Set Screen Reader Mode On release 1.0".



APEX – IT Tab



APEX - Run User Responsibility Report

The screenshot shows a web browser window titled "User Responsibilities" with the URL <https://apex.oracle.com>. The page header includes "APEX Reporting" and a user profile for "Johnpeters" with a "Logout" link. A navigation menu contains "Home", "AP", "AR", "FA", "GL", "CM", "IT", and "Help". The breadcrumb trail is "Home > IT > User Responsibilities". Below the breadcrumb is a search bar with a "Go" button and an "Actions" dropdown menu. The main content is a table with the following data:

	User Id	Responsibility Id	Application Id	User Name	Responsibility Name	Application Name
	1120	50871	200	ALEXANDER	AP Invoice Processor	Payables
	1120	50838	200	ALEXANDER	AP Manager	Payables
	1120	50854	200	ALEXANDER	AP Payment Processor	Payables
	1120	50869	200	ALEXANDER	AP Supplier Maintenance	Payables
	1010	50571	0	ASGADM	Application Diagnostics	Application Object Library
	1010	20420	1	ASGADM	System Administrator	System Administration
	1131	50874	101	CHESTER	GL Close	General Ledger
	1131	50863	101	CHESTER	GL Inquiry & Reporting	General Ledger



APEX - Add a filter

The screenshot shows the APEX Reporting interface. At the top, there's a navigation bar with 'APEX Reporting' and a user profile 'Johnpeters Logout'. Below that are tabs for 'Home', 'AP', 'AR', 'FA', 'GL', 'CM', 'IT', and 'Misc'. The current view is 'User Responsibilities' under the 'IT' tab. A search bar contains 'Q-' and an 'Actions' dropdown. A filter is applied: 'Row text contains System Administrator'. Below the filter is a table with 7 columns: User Id, Responsibility Id, Application Id, User Name, Responsibility Name, and Application Name. The table contains 5 rows of data.

	User Id	Responsibility Id	Application Id	User Name	Responsibility Name	Application Name
	1010	20420	1	ASGADM	System Administrator	System Administration
	1118	20420	1	CIAR...	System Administrator	System Administration
	1117	20420	1	CR...	System Administrator	System Administration
	1112	20420	1	JOHN...	System Administrator	System Administration
	1113	20420	1	LYNNE...	System Administrator	System Administration



APEX - Exporting

The screenshot shows an Oracle APEX Reporting interface. The browser address bar displays a URL starting with 'https://'. The page title is 'APEX Reporting' and the user is logged in as 'johnpeters'. The breadcrumb trail is 'Home > IT > User Responsibilities'. A search bar is present with a 'Go' button. A filter is applied: 'Row text contains 'System Administrator''. An 'Actions' dropdown menu is open, showing options: Select Columns, Filter, Rows Per Page, Format, Flashback, Save Report, Reset, Help, and Download. The 'Download' option is highlighted. Below the table, a JavaScript snippet is visible: `javascript:gReport.dialog2('SHOW_DOWNLOAD');`. The table contains the following data:

User Id	Responsibility Id	Application Id	U	Name	Application Name
1010	20420	1	AS	or	System Administration
1118	20420	1	CI	or	System Administration
1117	20420	1	CF	or	System Administration
1112	20420	1	JC	or	System Administration
1113	20420	1	LYNN	istrator	System Administration



APEX – Exporting Format

The screenshot shows the APEX Reporting interface. At the top, there is a navigation bar with 'APEX Reporting' and a user profile 'Johnpeters Logout'. Below this is a breadcrumb trail: 'Home > IT > User Responsibilities'. A search bar contains 'Q-' and a 'Go' button. An 'Actions' dropdown menu is visible. A 'Download' dialog box is open, prompting the user to 'Choose report download format:'. Three options are shown: 'CSV' (with a green checkmark and a red arrow pointing down), 'HTML' (with a red arrow pointing down), and 'Email' (with a yellow envelope icon). A 'Cancel' button is also present. Below the dialog, a filter is applied: 'Row text contains "System Administrator"'. A table with one row is displayed below the filter.

User Id	Responsibility Id	Application Id	User Name	Responsibility Name	Application Name
1010	20420	1	ASO...	System Administrator	System Administration



APEX – Exported to Excel

user_responsibilities.csv - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Nitro PDF QuickBooks Team

Clipboard Font Alignment Number Cells Editing

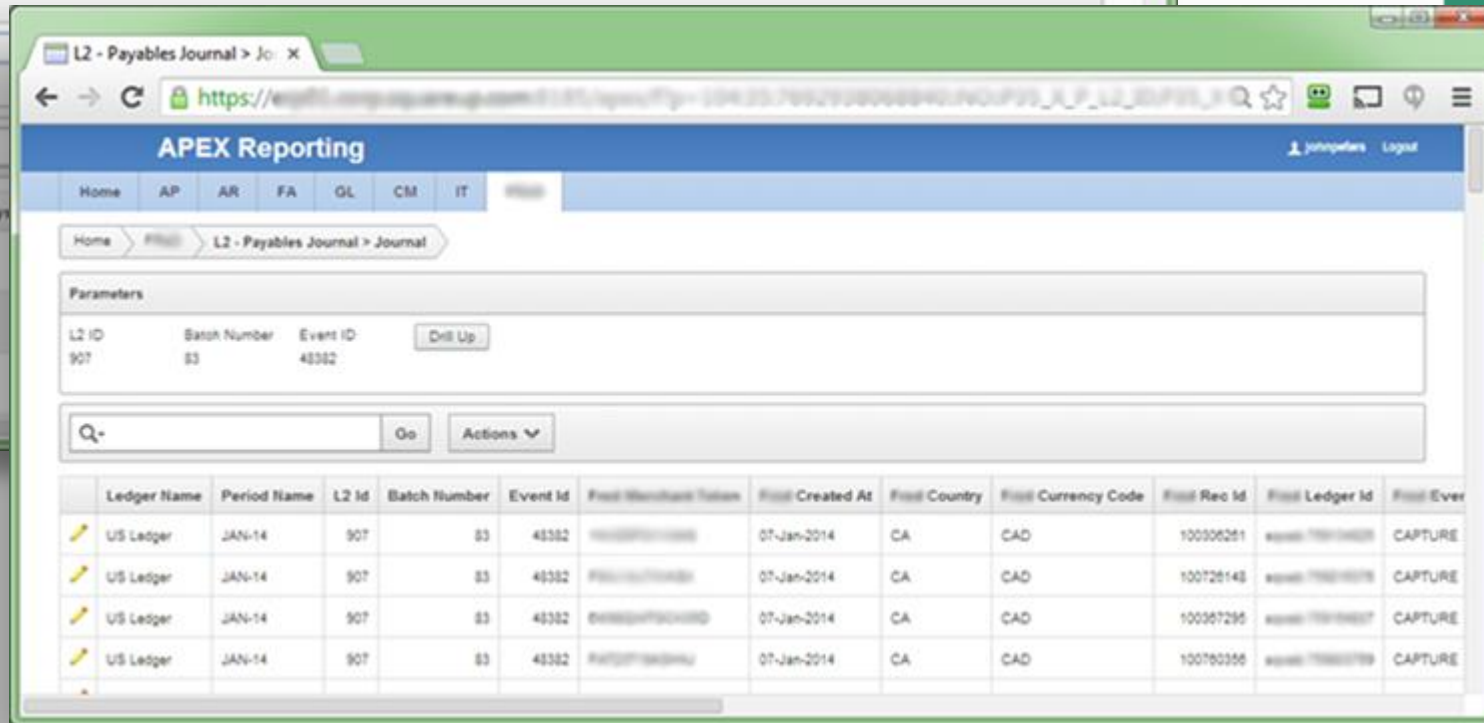
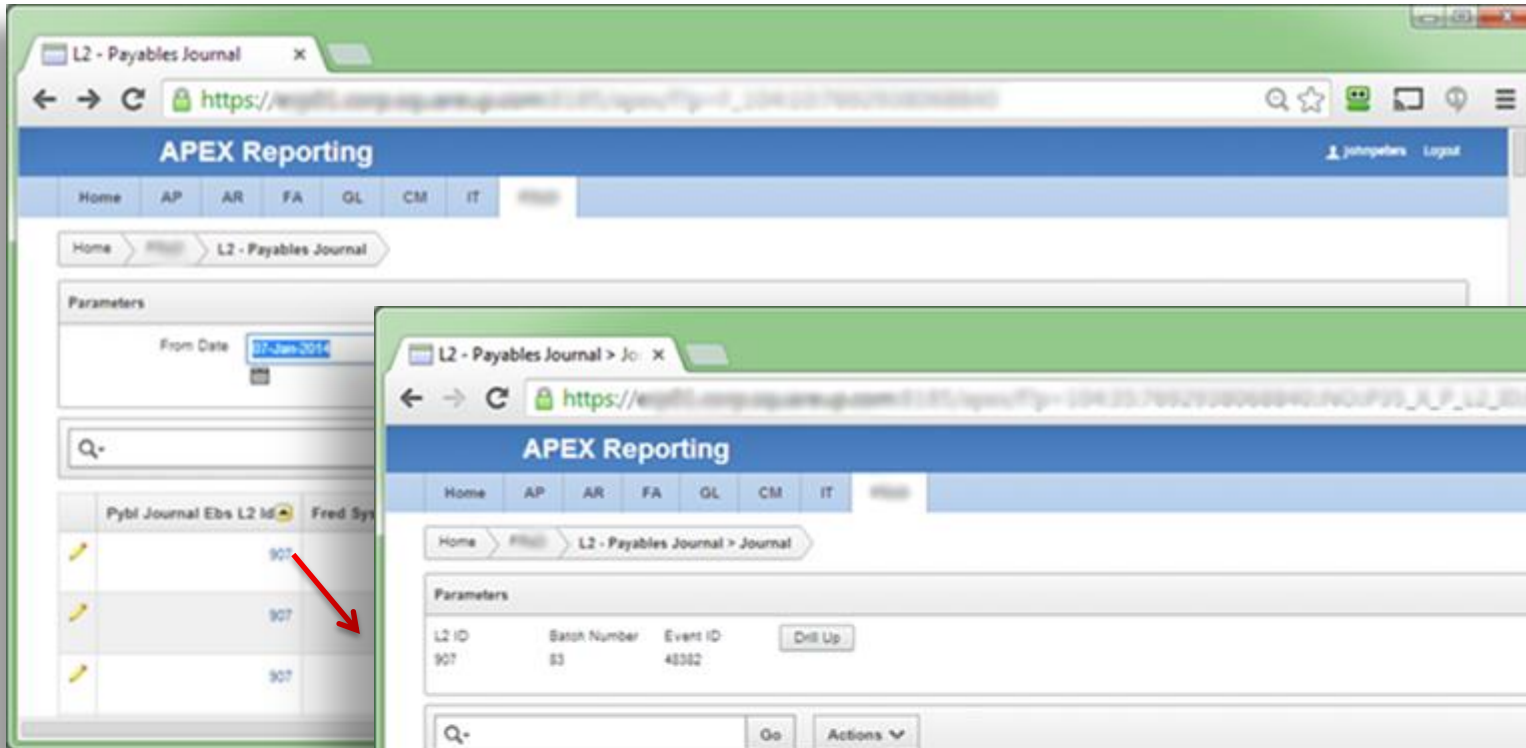
F7 System Administration

	A	B	C	D	E	F
1	User Id	Responsibility Id	Application Id	User Name	Responsibility Name	Application Name
2	1010	20420	1	ASC	System Administrator	System Administration
3	1118	20420	1	CIA	System Administrator	System Administration
4	1117	20420	1	CR	System Administrator	System Administration
5	1112	20420	1	JOHN	System Administrator	System Administration
6	1113	20420	1	LYNN	System Administrator	System Administration
7	1110	20420	1	MARK	System Administrator	System Administration
8	1011	20420	1	MOBILEADM	System Administrator	System Administration
9	1111	20420	1	MOHAN	System Administrator	System Administration
10	1005	21704	535	OP_SYSADMIN	SFM System Administrator	Provisioning
11	0	20420	1	SYSADMIN	System Administrator	System Administration
12	1124	20420	1	TEDMI	System Administrator	System Administration
13						

user_responsibilities 100%



APEX – Summary and Detail Drill Down



Example #2

Reporting Application With Updating Capability



Customer 360 Degree View

- Everything you wanted to know about a customer in one page
- Notice the difference in the Framework

The screenshot shows a web application interface for a Customer 360 Degree View. At the top is a green navigation bar with links: Home, Customers, Items, Orders, Invoices, Renewals, AP, GL, Fixed Assets, Acquisition, Setups, and Sys Admin. Below this is a breadcrumb trail: Customer Reports > Customers > Customer Details. The main content area is titled 'Customer 293.7*' and includes a sidebar on the left with a 'Summary' section highlighted in blue. The sidebar also lists: Sites, Orders & Renewals, Annualized Value, Invoices, Tax Exemptions, Receipts, AR Balances, Assets, Where Used, Notes, SF Opportunities, Support Cases, and View All Sections. The main content is divided into several summary sections, each highlighted with a red rounded rectangle:

- Customer Summary:** A table with fields: Cust Num (103859), Party Num (5215), Parent Cust Name (blurred), SF Parent Cust ID (00 000000pc), Channel (ISV), Classification (COMMUNICATIONS), BI Pub Language (American English), Terms (blurred), # Contacts (18), # Sites (5 (4 Active)), Brands (blurred), Last Refresh Date (18-SEP-13 18:27:50), and Summary Data Last Refresh (0 hr 1 min ago).
- Bill To Invoicing Summary:** A table with fields: AR Balance (0.00), Invoicing Total (1,930,188.61), DACR LTD (43), Invoices (433), Current Year (0.00), DACR Current Year (0), Last Invoice (13-DEC-13), Last Year (754,373.30), and DACR Last Year (9).
- Order Summary:** A table with field: Count Orders (34 (102 Lines)).
- Renewal Summary:** A table with fields: Entered Contracts (131), Active Contracts (129), Next Renewal (01-NOV-13), and Asset Count (138 (111 Active)).

Customer 360 Degree View

Customer Orders

Home Customers Items Orders Invoices Renewals AP GL Fixed Assets Acquisition Setups Sys Admin

Customer Reports Customers Customer Details

Customer 293.7*

Summary

Sites

Orders & Renewals

Annualized Value

Invoices

Tax Exemptions

Receipts

AR Balances

Assets

Where Used

Notes

SF Opportunities

Support Cases

View All Sections

Customer Summary [Edit Customer Attributes](#)

Cust Num 103859 Party Num 5215 Parent Cust Name [REDACTED] SF Parent Cust ID 00 000000

Channel ISV Classification COMMUNICATIONS BI Pub Language American English Terms

Orders

Orders.csv

row(s) 1 - 15 of 34 [Next](#)

ORG_NAME	ORDER_NUMBER	ORDERED_DATE	PO_NUMBER	SF_QUOTE_ID	OPEN_FLAG	ORDER_STATUS	SALES_REP_NAME	AMT	CURRENCY_CD
RS INC	10102300	12-DEC-2013		00026410	N	CLOSED	[REDACTED]	12,000.00	USD
RS INC	10101856	06-SEP-2013	Signed Order Form	00024046	N	CLOSED	[REDACTED]	4,200.00	USD
RS INC	0101833	30-AUG-2013		00024204	N	CLOSED	[REDACTED]	14,307.30	USD
RS INC	0101830	30-AUG-2013		00024168	N	CLOSED	[REDACTED]	2,916.00	USD
RS INC	10101743	14-AUG-2013		00023794	N	CLOSED	[REDACTED]	1,450.00	USD
RS INC	0101742	14-AUG-2013		00023792	N	CLOSED	[REDACTED]	1,450.00	USD
RS INC	0101741	14-AUG-2013		00023796	N	CLOSED	[REDACTED]	1,450.00	USD
RS INC	10101476	14-JUN-2013		00021130	N	CLOSED	[REDACTED]	36,000.00	USD
RS INC	10101393	24-MAY-2013		00021015	N	CLOSED	[REDACTED]	1,450.00	USD
RS INC	10101392	24-MAY-2013		00021016	N	CLOSED	[REDACTED]	1,450.00	USD
RS INC	10101391	24-MAY-2013		00021014	N	CLOSED	[REDACTED]	1,450.00	USD
RS INC	10100975	28-FEB-2013		00017353	N	CLOSED	[REDACTED]	3,834.00	USD
RS INC	10100567	04-DEC-2012	N/A	00015123	N	CLOSED	[REDACTED]	1,600.00	USD
RS INC	01000560	30-NOV-2012	N/A	00015112	N	CLOSED	[REDACTED]	1,450.00	USD
RS INC	01000559	30-NOV-2012	N/A	00015111	N	CLOSED	[REDACTED]	1,450.00	USD

row(s) 1 - 15 of 34 [Next](#)

Orders.csv

Service Contracts

src_contracts.csv

row(s) 1 - 25 of more than 500 [Next](#)

Org Name	Contract Num	Status	Start Date	End Date	Est Amt Lcl	Currency Code	Contract Grp	Description	Known As
RS INC	0002586-02-DEC-13 17:10:35	Entered	01-JAN-2015	31-DEC-2015	8,051.00	USD	[REDACTED]	[REDACTED]	-
RS INC	0007710-12-DEC-13 10:58:30	Entered	12-DEC-2014	11-DEC-2015	2,000.00	USD	[REDACTED]	[REDACTED]	-
RS INC	002478-03-OCT-13 18:44:03	Entered	01-DEC-2014	30-NOV-2015	900.00	USD	[REDACTED]	[REDACTED]	N



Customer 360 Degree View AR Invoices

Home Customers Items Orders Invoices Renewals AP GL Fixed Assets Acquisition Setups Sys Admin

Customer Reports Customers Customer Details

Customer 293.7*

Summary
Sites
Orders & Renewals
Annualized Value
Invoices
Tax Exemptions
Receipts
AR Balances
Assets
Where Used
Notes
SF Opportunities
Support Cases
View All Sections

Customer Summary Edit Customer Attributes

Cust Num 103859 Party Num 5215 Parent Cust Name [REDACTED] SF Parent Cust ID 000000

Channel ISV Classification COMMUNICATIONS BI Pub Language American English Terms

Invoices

Invoices.csv
row(s) 1 - 15 of 433 Next

Org Name	Inv Num	Inv Date	Po Num	Src Doc Num	Inv Amt	Curr Cd	PDF	Note	Src
INC	0000551	13-DEC-2013	[REDACTED]	3453	-5,450.00	USD	View Invoice PDF	View Notes	IMPORTED
NC	10111414	13-DEC-2013	[REDACTED]	3453	5,450.00	USD	View Invoice PDF	View Notes	IMPORTED
NC	10111380	12-DEC-2013	[REDACTED]	10102300	12,000.00	USD	View Invoice PDF	View Notes	ORDER ENTRY
NC	10111392	12-DEC-2013	[REDACTED]	8010	311.82	USD	View Invoice PDF	View Notes	IMPORTED
NC	10111081	06-DEC-2013	[REDACTED]	0003647	42.77	USD	View Invoice PDF	View Notes	OKS CONTRACTS
INC	10111082	06-DEC-2013	[REDACTED]	0003648	42.77	USD	View Invoice PDF	View Notes	OKS CONTRACTS
INC	10111083	06-DEC-2013	[REDACTED]	0003649	2.77	USD	View Invoice PDF	View Notes	OKS CONTRACTS

ARL_103859_10111414.pdf

Create | 1 / 1 | 136% | Tools | Comment | Share

Account Executive	Batch Number	Quote Number	End Customer Name	Delivered Via
[REDACTED]	L38453		[REDACTED]	Electronic Delivery

Line	Item Number/Description	QTY	UOM	Tax	Ext Amount
1	F6LL Coverage from 01-DEC-2013 to 30-NOV-2014	40	Con Sesn	N	5,450.00

If your organization is tax exempt and has been charged sales tax, please email a copy of your tax exemption certificate to [REDACTED] or fax to [REDACTED]

SUMMARY	
Subtotal	5,450.00
Tax Total	0.00
Total Due	USD 5,450.00



How was that done?

- AR Invoice Print Program uses BI Publisher
- Bursting and Delivery Manager Run
 - Save PDF file in a specific directory with a specific filename
 - <DOC_TYPE>_<CUST_NUMBER>_<DOC_NUMBER>
- Periodic program scans directories for new files
 - Loads files into a BLOB in the DB
 - Metadata also updated with Invoice Details linking to EBS data
- APEX just needs to query the custom table build HTML link
- If user clicks on link, PDF opens up



Customer 360 Degree View Adding a Customer Contact

Home Customers Items Orders Invoices Renewals AP GL Fixed Assets Acquisition Setups Sys Admin

Customer Reports Customers Customer Details Customer Site Details

Customer Site 257.4°
Summary
Enabled Orgs
Contacts
Orders & Renewals
Invoices
Receipts
AR Balances
Assets
Where Used
View All Sections

Customer Site
Customer Number
103859
Address

Home Customers Items Orders Invoices Renewals AP GL Fixed Assets Acquisition Setups Sys Admin

Customer Reports Customers Customer Details Customer Site Details **Update Contact**

Update Contact

Cancel Submit

First Name

Last Name

Job Title

Status
Active

Contact Points

Add Email Add Phone Add Fax

Contact Point Type	Status	Primary Flag	Email Address	Phone Line Type	Phone Country Code	Phone Number	Edit
EMAIL	A	Y		-	-	-	

1 - 1



Customer 360 Degree View Adding a Customer Contact

Home Customers Items Orders Invoices Renewals AP GL Fixed Assets Acquisition Setups Sys Admin

Customer Reports Customers Customer Details Customer Site Details

Customer Site 257.4*

- Summary
- Enabled Orgs**
- Contacts
- Orders & Renewals
- Invoices
- Receipts
- AR Balances
- Assets
- Where Used
- View All Sections

Customer Site Summary - 626712 Edit Site Attributes

Customer Num: 103859 Site Num: 626712 Site Name: [Redacted]

Address: [Redacted]

Registered Orgs

Add to New Org

Edit	Org Name	Doc Language	Doc Send Ctrl	Uses
			No emails will be withheld	BILL TO SHIP TO

Home Customers Items Orders Invoices Renewals AP GL Fixed Assets Ac

Customer Reports Customers Customer Details Customer Site Details **Add Customer Site to Org**

Add Customer Site to Org

Org Name: [Redacted]

Cancel Submit

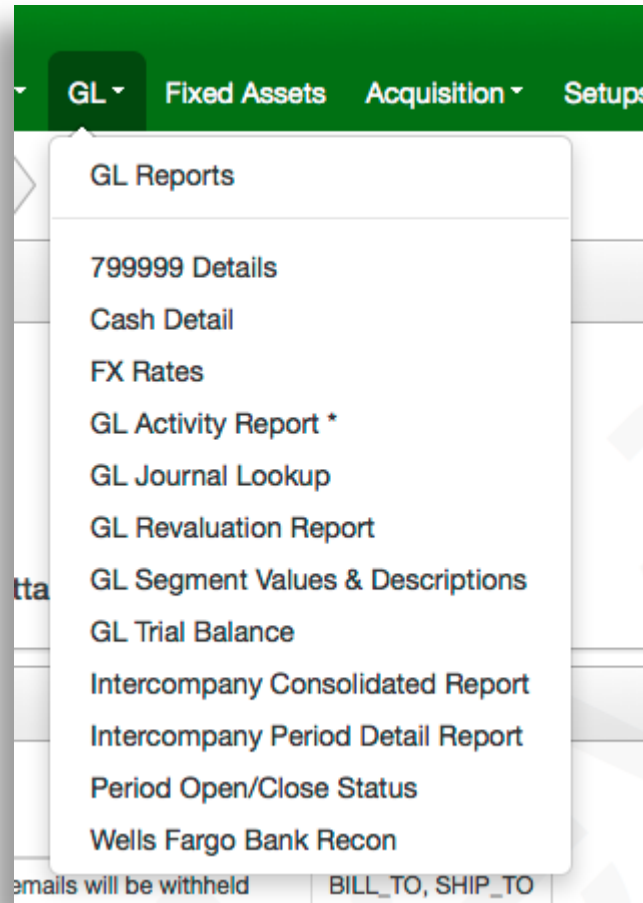
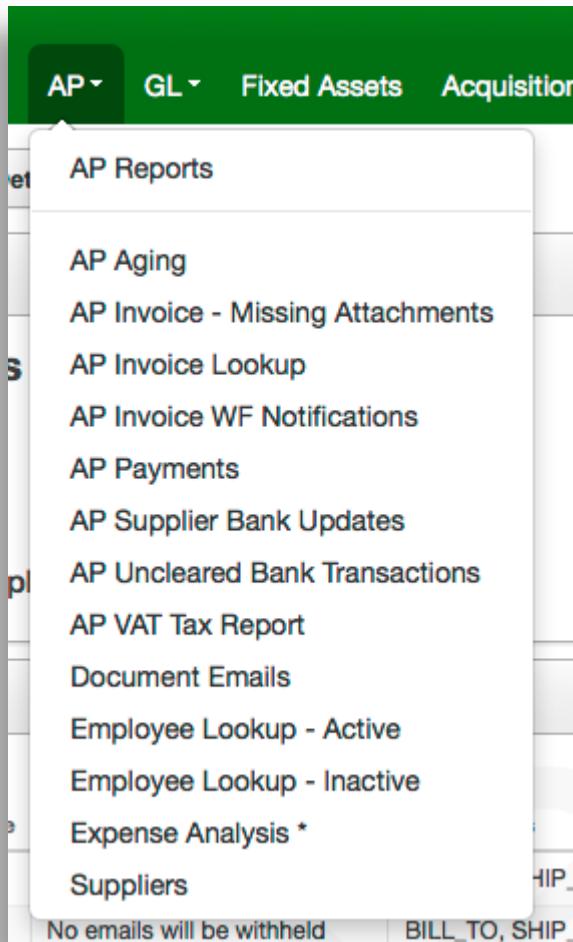


How was that done?

- Call the TCA PL/SQL API's to add a contact record.
- Call the TCA PL/SQL API's to enable a site in a different OU.
- You have to grant execute to your APEX DB user on the PL/SQL API's.
- Isn't that a lot easier than navigating down in the clunky customer form in EBS.



Additional Reports



Simplified EBS User Administration

Sys Admin Reports > Oracle User > User Details

User Details

First Name	Last Name	User Name	Employee Number	Last Logon Date
				19-DEC-2013 17:06

row(s) 1 - 1 of 1

User Responsibilities

Org: All Orgs

App Name: All Applications

Resp Type: All Types

row(s) 1 - 20 of 20

Responsibility Name	Start Date	End Date	Remove
OKS User	11-JUN-2012		Remove
M User	11-JUN-2012		Remove
S OKS User	11-JUN-2012		Remove
A US OM User	11-JUN-2012		Remove
AR APEX Security	08-MAR-2013		Remove
OKS User	11-JUN-2012		Remove
OM User	11-JUN-2012		Remove
OKS User	03-DEC-2012		Remove
OM User	03-DEC-2012		Remove
OKS User	11-JUN-2012		Remove
OM User	11-JUN-2012		Remove
OKS User	11-JUN-2012		Remove
OM User	11-JUN-2012		Remove

Copy Privs From

From User:

Copy Privs to:

Add User Responsibilities

Org: All Orgs

App Name: All Applications

Resp Type: All Types

row(s) 1 - 786 of 786

Responsibility Name	Add Resp
AP APEX Security	Grant to User
AP Manager	Grant to User
AP SME	Grant to User
AP Super User	Grant to User
AP Supplier Entry	Grant to User
AP User	Grant to User
AR APEX Security	Grant to User
AR Customer Entry	Grant to User



APEX - Applications Express

- This talk is an abbreviated version of my talk later in the week
 - Extend EBS Using Applications Express
 - Friday, April 11, 9:45-10:45
 - Sands, Level 1 – 305
- I will be going into more detail on APEX and some of the things you can do with it to enhance your EBS Environment



APEX – Additional Information

- The one stop starting point
 - <http://www.oracle.com/technetwork/developer-tools/apex/overview/index.html>

- APEX Hosting
 - <http://apex.oracle.com/i/index.html> to get your own test Workspace to try it out for free
 - Oracle Database Cloud Service
 - Amazon Cloud Services
 - Many smaller 3rd party hosting companies

