

APEX @ OBUG HEALTH SIG

Leontien Kramer
Dimitri Gielis

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Haal meer uit uw Oracle applicaties en de Oracle technologie!

Inform



Share knowledge



Network



Meet Oracle experts



Programma

10.00 uur	Ontvangst met koffie en thee
10.30 uur	Opening Jacqueline Zoon/Leontien Kramer
10.40 uur	APEX Hands On Workshop Dimitri Gielis (APEX Evangelists)
12.30 uur	Lunch
13.30 uur	APEX Hands On Workshop (vervolg) Dimitri Gielis (APEX Evangelists)
15.00 uur	Sluiting - netwerkborrel



- Standard process used for IT development
- Use of a standard toolset
- Including workflow approvals & SOA compliance for moving to production processes



About Dimitri Gielis

- Director of APEX Evangelists
- 14+ years of Oracle Experience
- OBUG APEX SIG Leader
- ‘Dimitri.Gielis@AE’ in the APEX forums
- Presenter at ODTUG, OOW, UKOUG, OBUG, ...
- Oracle ACE Director
- “APEX Developer of the Year 2009”
- Blog @ <http://dgielis.blogspot.com>

ORACLE®



[Dimitri Gielis](#) 🏆

Oracle ACE Director





ORACLE®

E-Business Suite & Application Express

Integration of Oracle APEX and EBS

Table of Contents

- What is Oracle E-Business Suite (EBS)
- What is Oracle Application Express (APEX)
- Oracle EBS R12 and Oracle APEX together
- Live Demo
- APEX Workshop



A very short introduction to Oracle E-Business Suite



**Sales & Order
Management**



Procurement



Manufacturing



Inventory



Fulfillment



**Financial & Asset
Management**



**Business
Intelligence**



Reporting

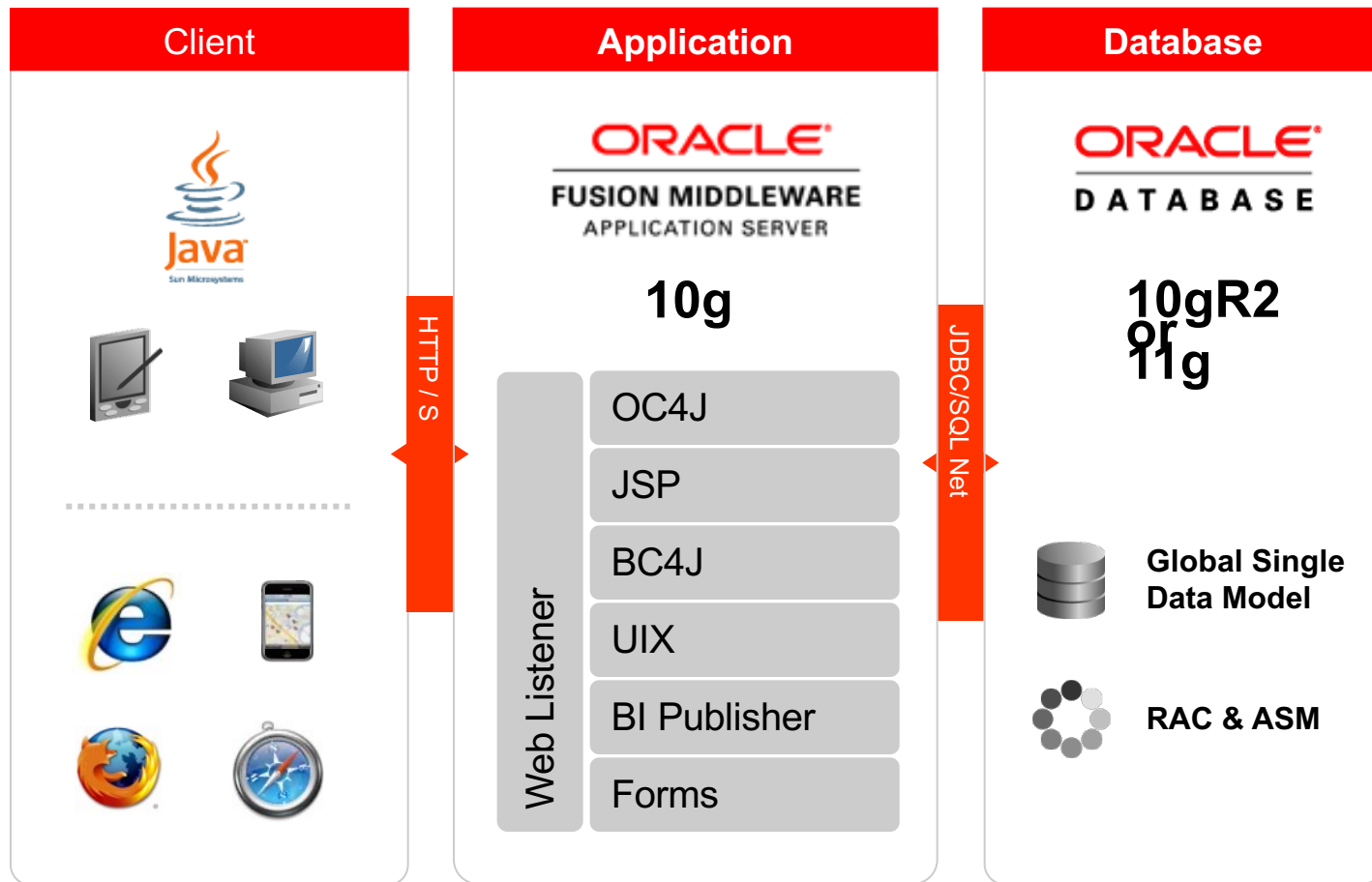


Customer Service



**Customer
Relationship
Management**

The Technology Stack



Let's see it!

ORACLE®



***Gebruikersnaam**
(bijvoorbeeld michiel.jan.smit)

***Wachtwoord**
(bijvoorbeeld 4u99v23)

[Inlogassistentie](#)

Toegankelijkheid

Selecteer een taal:

Deutsch	Dansk	Español	Français	Italiano	Norsk
Nederlands	Português	Svenska	Suomi	English	

[Informatie over deze pagina](#) [Beslotenheidsverklaring](#)

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[Bestelaanvragen](#)
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Zoeken in

[Uitgebreid zoeken](#)

Winkels

Dit is de afbeelding van de winkel.

[Hoofdwinkel](#)
 Eén winkel voor alles wat u nodig hebt

[Exchange Marketplace](#)
 Punchout to OracleExchange

[Computers](#)
 Punchout to Dell Computers UK

[Legal Services](#)
 Legal Services

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 Informational Catalogs to external travel sites.

[IT Equipment](#)
 Punchout to MoreDirect.com

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[Maintenance](#)
 Maintenance supplies, tools, and services

[Facilities Equipment](#)
 Facilities Equipment

[eAM Maintenance Supplies](#)
 eAM Maintenance Supplies

[eAM Assets](#)
 eAM Assets

Mijn bestelaanvragen

[Volledige lijst](#)

Bestelaanvraag	Omschrijving	Totaal (USD)	Status	Kopiëren	Wijzigen	Expresontvangst
16750		98.70	Goedgekeurd			
16748		18,500.00	Goedgekeurd			
16746		14,766.15	Goedgekeurd			
16745		2,086.95	Goedgekeurd			
16744		18,778.65	Goedgekeurd			

Mijn meldingen

[Volledige lijst](#)

Soort	Vanaf	Onderwerp	Verstuurd
Bestelaanvraag	Stock, Pat	Purchase Requisition 16564 is goedgekeurd.	01-feb-2012
Goedkeuring inkooporder	Brown, Casey	Standard Purchase Order 6738 is goedgekeurd.	28-mei-2011

TIP Vakantieregels: meldingen doorsturen of automatisch beantwoorden.

Winkelwagen

De winkelwagen bevat 1 regel.

Recentelijk toegevoegde regels

Organizer, Bind... 100000 EA

[Winkelwagen bekijken en afrekenen](#)

Inkoopnieuws

- ✓ [Veelgestelde vragen raadplegen](#)
- ✓ [Inkoopbeleid bekijken](#)

This is where the customer puts their own purchasing news items (this is an HTML plugin).

Gebruikersnaam

Wachtwoord

Omschrijving

Status

Persoon

Klant

Leverancier

E-mail

Fax

Afloopdatum wachtwoord

☐ Dagen

☐ Toegangen

☒ Geen

Geldig

Vanaf 02-FEB-2012

Tot

Directe autorisaties

Indirecte autorisaties

Beveiligingsattributen

Autorisatie	Applicatie	Omschrijving	Beveiligings- groep	Geldig	
				Vanaf	Tot

Data Model



Database Objecten

- Tabellen
- Views
- Synonymen
- Sequences
- PL/SQL Packages



Database Objecten

1. APPS.PER_PEOPLE

View in APPS schema welke alleen effectieve records zien op basis van de datum van gebruikerssessie.

2. APPS.PER_PEOPLE_S

Synonym naar sequence in HR schema welke PERSON_ID genereert.

3. APPS.PER_ALL_PEOPLE_F

Synonym in APPS schema welke wijst naar de tabel in HR schema.

4. APPS.PER_PEOPLE_F

View met HR security regels geïmplementeerd. Afhankelijk van ingelogde gebruiker zie je alleen records waar je toegang voor hebt.

Resultaat

```
select count(*) from per_people;  
-- 0          VIEW  
select count(*) from per_people_f;  
-- 33945     VIEW  
select count(*) from per_all_people;  
-- 0          VIEW  
select count(*) from per_all_people_f;  
-- 33945     SYNONYM
```

Log in

```
BEGIN
  APPS.FND_GLOBAL.APPS_INITIALIZE
    ( USER_ID => 1318          -- OPERATIONS
    , RESP_ID => 51089        -- HR Vision NL
    , RESP_APPL_ID => 800    -- PER
    );
  Mo_Global.init ('PO');
END;
```

And there was light...

```
SELECT count(*) FROM ra_customer_trx;  -- 0 records
```

```
BEGIN
```

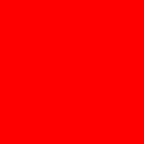
```
APPS.FND_GLOBAL.APPS_INITIALIZE
```

```
( USER_ID => 1318      -- OPERATIONS  
, RESP_ID => 50794    -- NL Vision NL  
, RESP_APPL_ID => 222 -- PER  
);
```

```
Mo_Global.init ('PO');
```

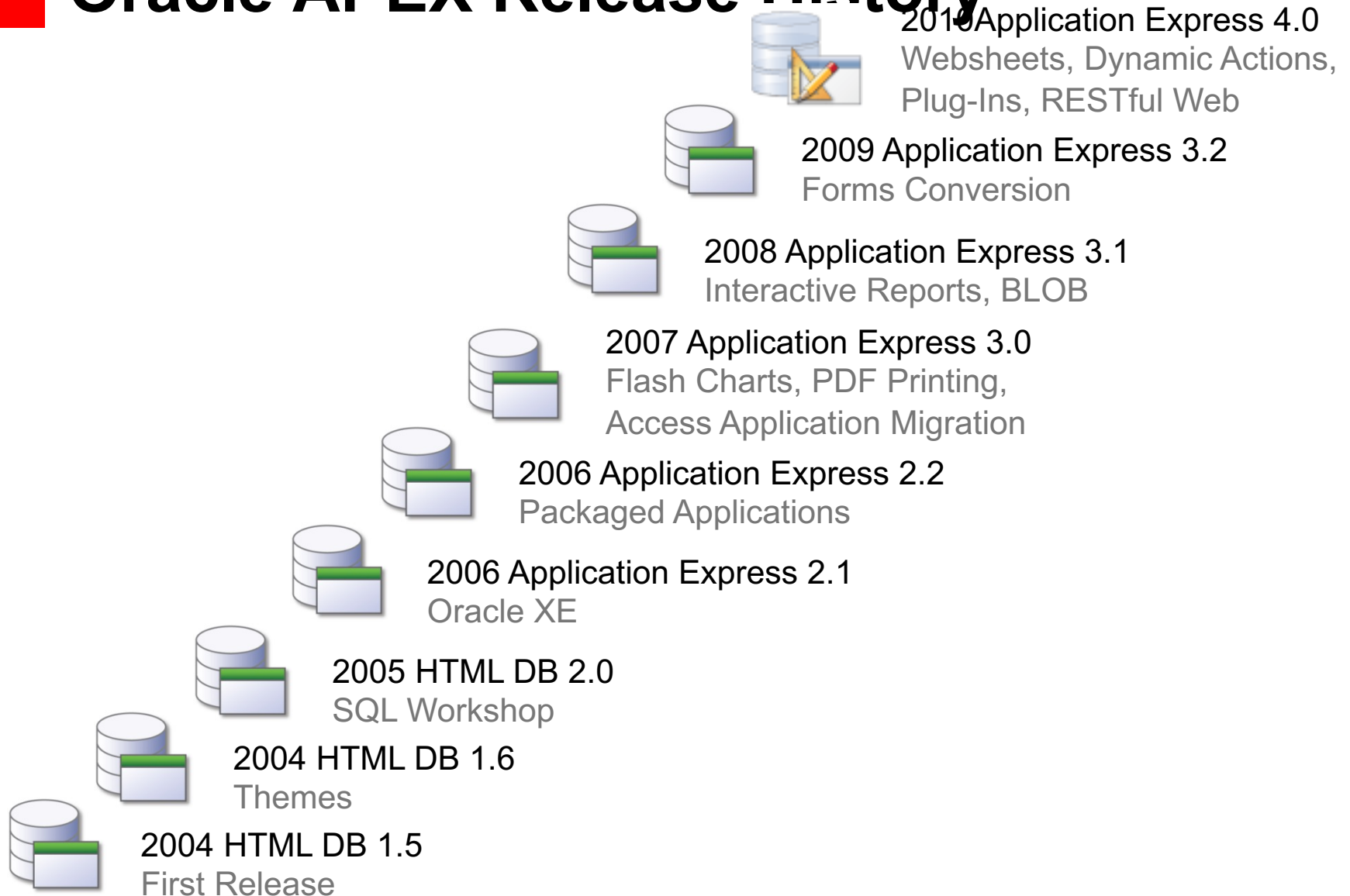
```
END;
```

```
SELECT count(*) FROM ra_customer_trx;  -- 18602 records
```



What is Oracle Application Express (APEX)

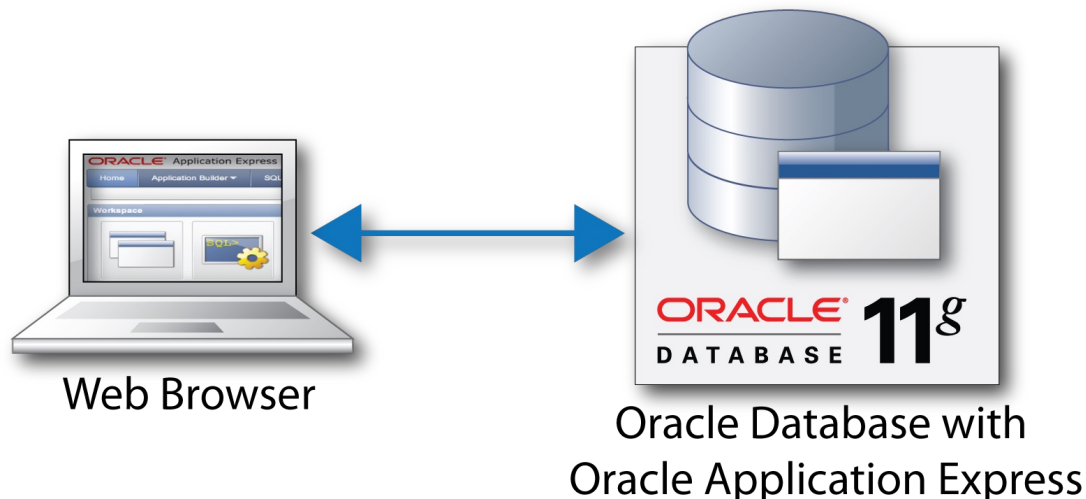
Oracle APEX Release History



Oracle Application Express (APEX)

What is Oracle APEX?

- Database centric Rapid Application Development (RAD) Tool
- No cost feature of the Oracle Database – All Editions
- 100% Browser-Based and Declarative
- Use SQL Workshop to create and manage DB objects
- Use Application Builder to create Web 2.0 Applications
- Leverage SQL skills to build reports, charts and forms
- Popular; extremely active OTN forum, high adoption



Oracle Application Express (APEX)

Benefits of Oracle APEX

No Cost Feature of

ORACLE
DATABASE **11^g**

RAD



In Browser Development



Declarative Web 2.0



Leverage SQL Skills



Self Service

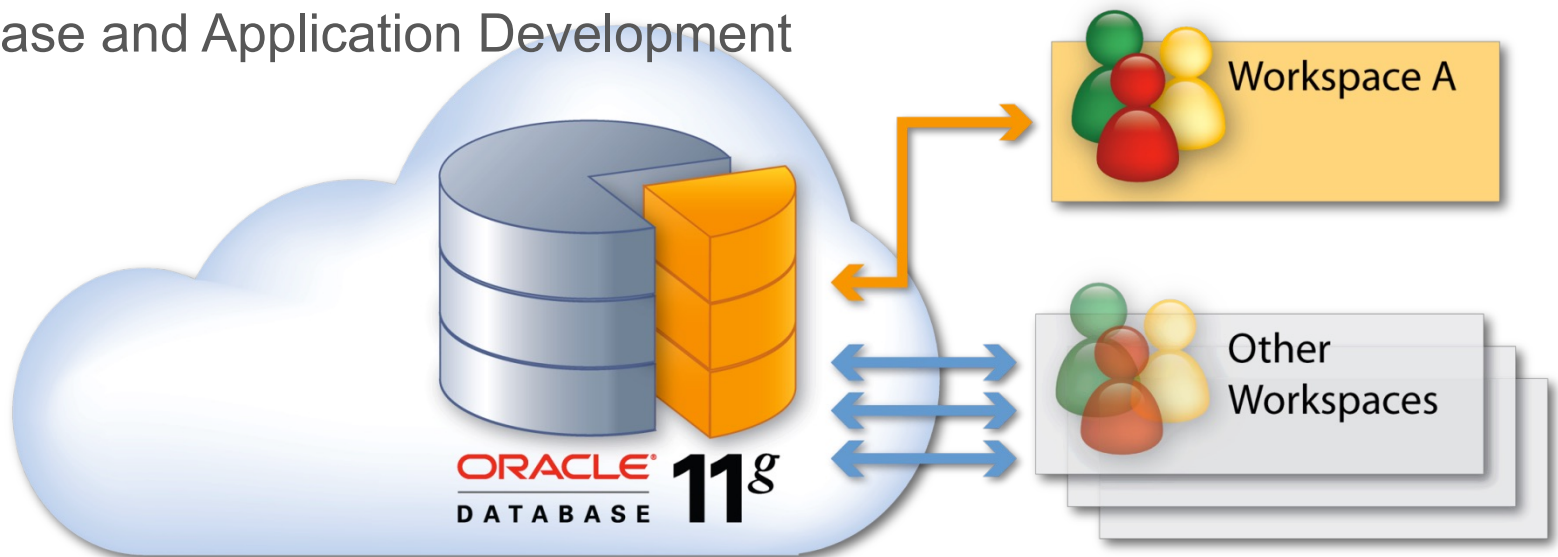


ORACLE

Oracle Application Express (APEX)

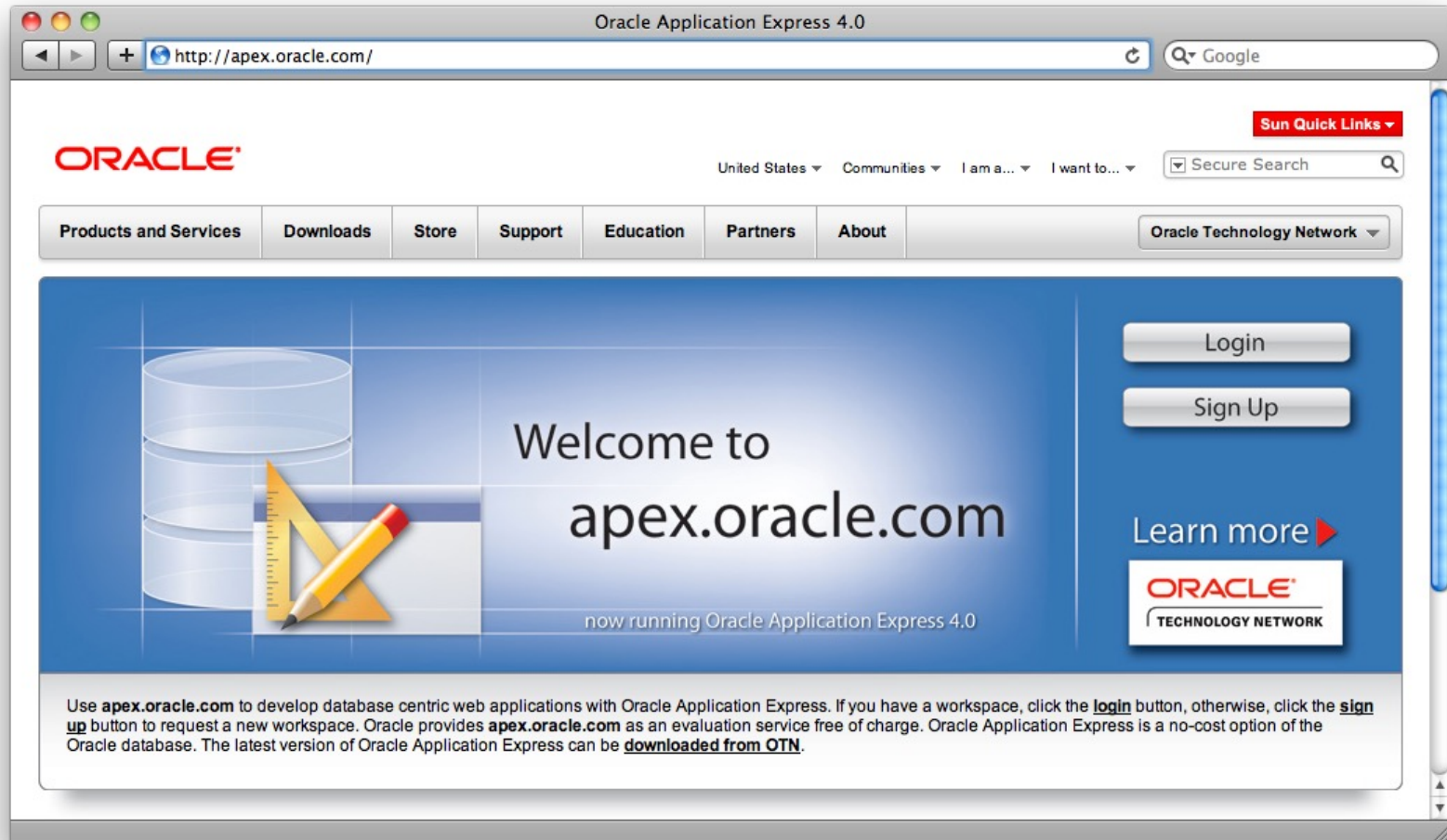
Private Cloud Development Service

- Allows IT Departments to provide DB as a Service
- One Oracle instance supports 100's of "Workspaces"
- Workspaces provide access to one or more DB Schemas
- Multi-tenant provisioning supports consolidation
- Fully Automated Self-service Provisioning
- Database and Application Development



Free cloud based evaluation instance

<http://apex.oracle.com>



Welcome to the Oracle Cloud

Preview Availability

Start Free Trial



Application Services



Fusion CRM

Sell smarter with Fusion CRM in the cloud.



Fusion HCM

Bring power to your people with Fusion HCM.



Social Network

A secure collaboration tool for everyone you work with.

Platform Services



Java

All the productivity of Java, without the IT.



Database

The Oracle database you love, now in the cloud.



[Download the Oracle Cloud Customer Portal Data Sheet](#)

OFFERINGS

[Fusion CRM](#)

[Fusion HCM](#)

[Social Network](#)

LEARN MORE

[How It Works](#)

[Why Oracle?](#)

RESOURCES

[FAQ](#)

[Architecture](#)

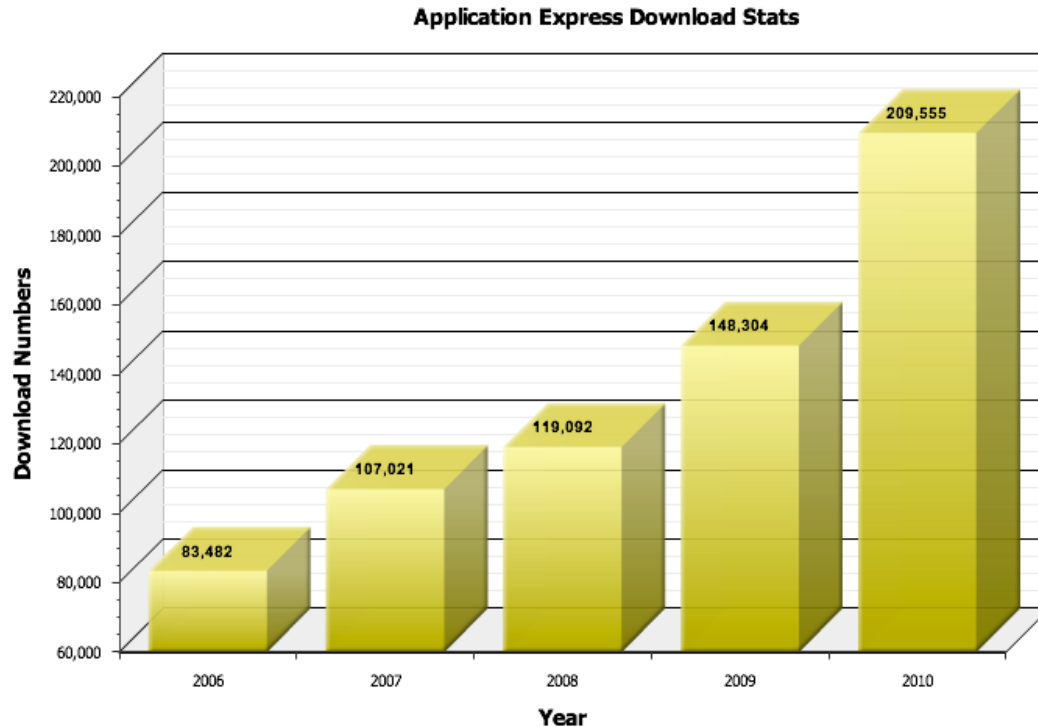
[Videos](#)

CONTACT

[Press](#)

Oracle Application Express (APEX)

OTN downloads by Calendar Year



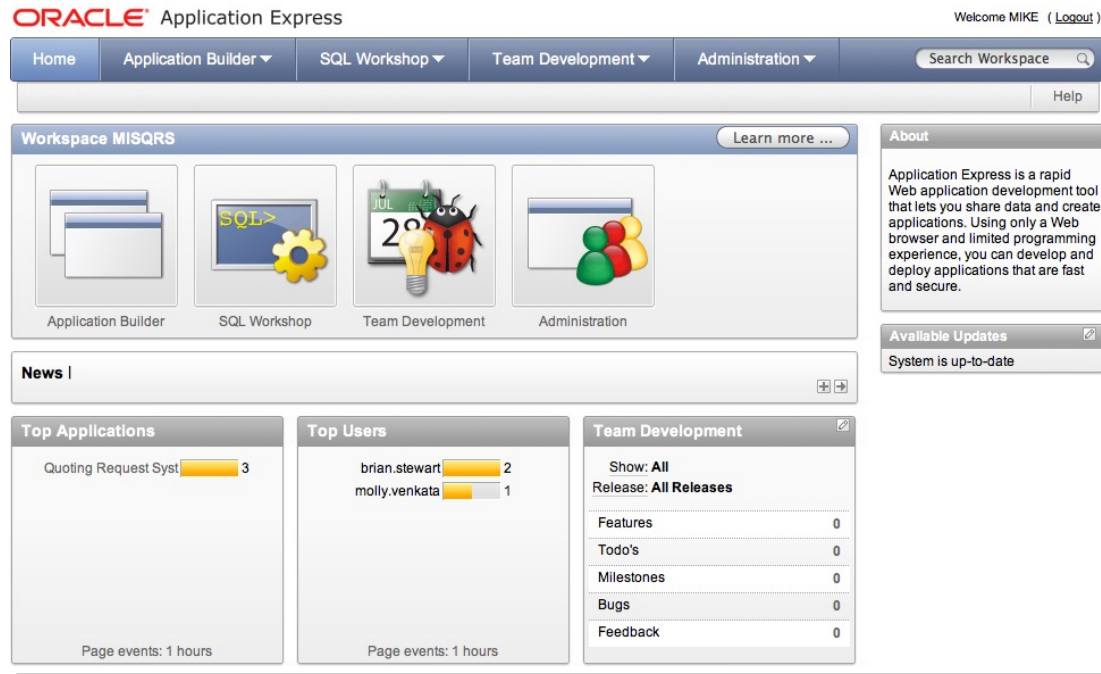
- Oracle Application Express is distributed on OTN and with all editions of the database including Oracle XE.
- APEX is the number 3 most popular discussion forum on OTN, only behind “Database” and “SQL”
- Over 8 books have been published in the last 2 years on APEX, we are expecting at least 3 in CY 2011



Building Applications in Oracle APEX

Building Applications in Oracle APEX

Oracle APEX Database and Application Development

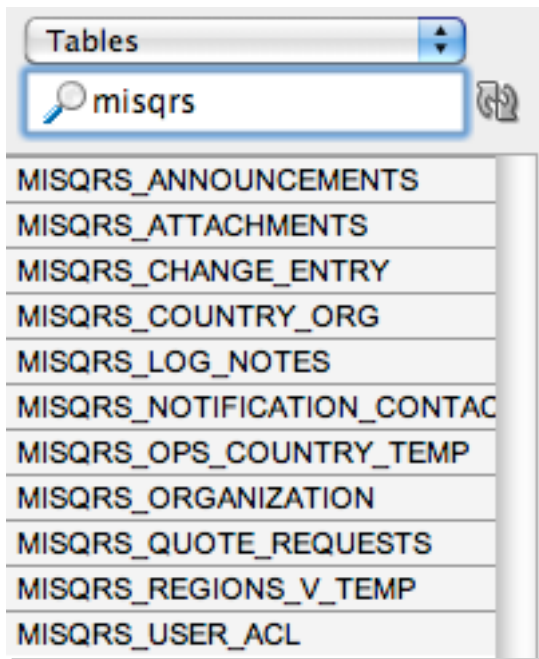


- Oracle application development home page
- Click Application Builder to develop applications
- Click SQL Workshop to develop database

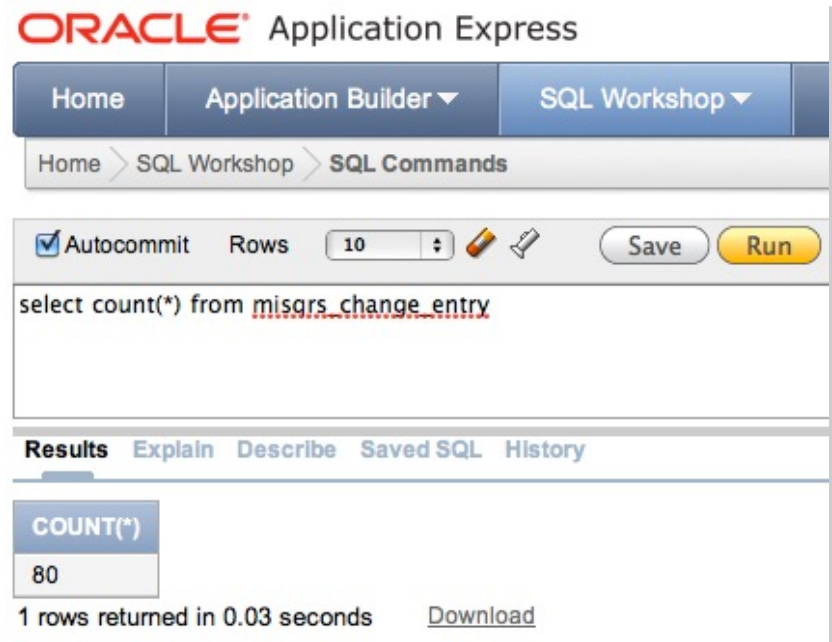
Building Applications in Oracle APEX

Full SQL Capabilities using APEX SQL Workshop

Browse Database Objects



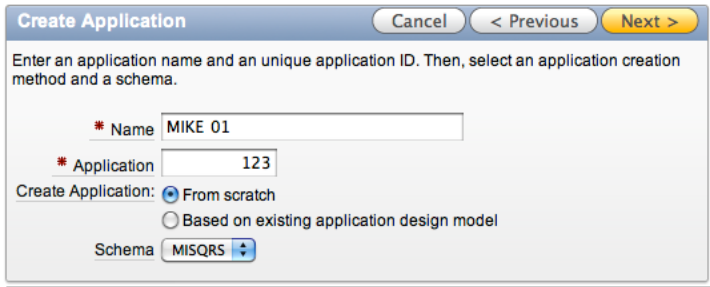
Run SQL or SQL Scripts



Building Applications in Oracle APEX

Creating an application

1. Initiate Create App Wizard



Create Application

Enter an application name and an unique application ID. Then, select an application creation method and a schema.

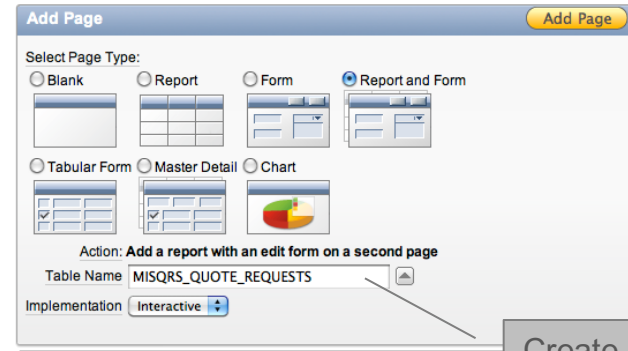
* Name: MIKE 01

* Application: 123

Create Application: ☒ From scratch
☐ Based on existing application design model

Schema: MISQRS

2. Add Pages



Add Page

Select Page Type:

☐ Blank ☐ Report ☐ Form ☒ Report and Form

☐ Tabular Form ☐ Master Detail ☐ Chart

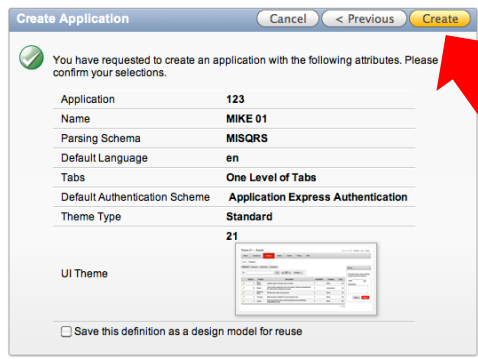
Action: Add a report with an edit form on a second page

Table Name: MISQRS_QUOTE_REQUESTS

Implementation: Interactive

Create report and form on table

3. Confirm and Create



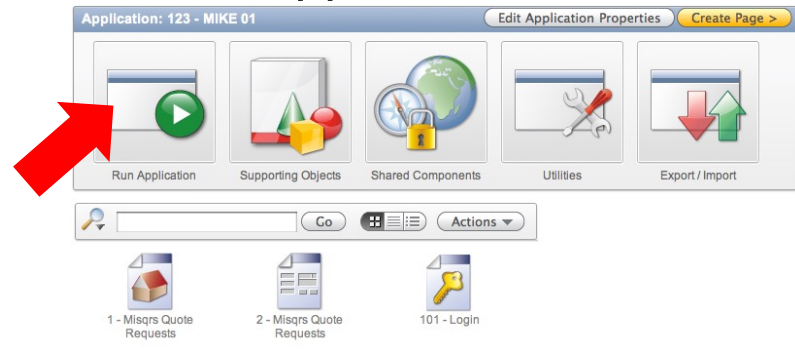
Create Application

You have requested to create an application with the following attributes. Please confirm your selections.

Application	123
Name	MIKE 01
Parsing Schema	MISQRS
Default Language	en
Tab	One Level of Tabs
Default Authentication Scheme	Application Express Authentication
Theme Type	Standard
UI Theme	21

☐ Save this definition as a design model for reuse

4. Run Applications



Application: 123 - MIKE 01

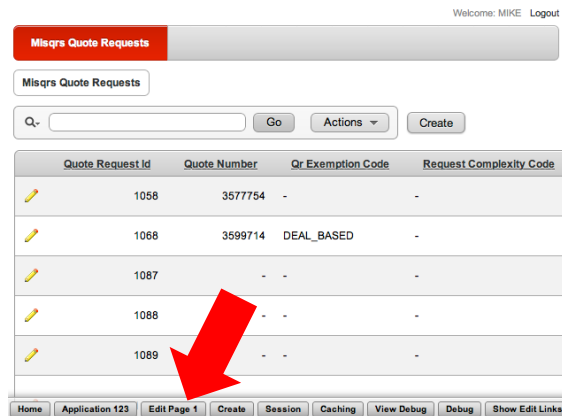
Run Application Supporting Objects Shared Components Utilities Export / Import

1 - Misqrs Quote Requests 2 - Misqrs Quote Requests 101 - Login

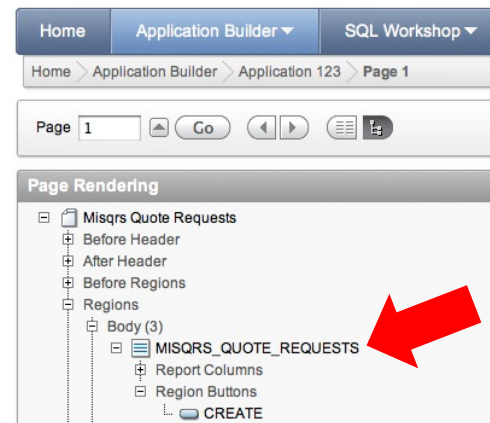
Building Applications in Oracle APEX

Developing an application

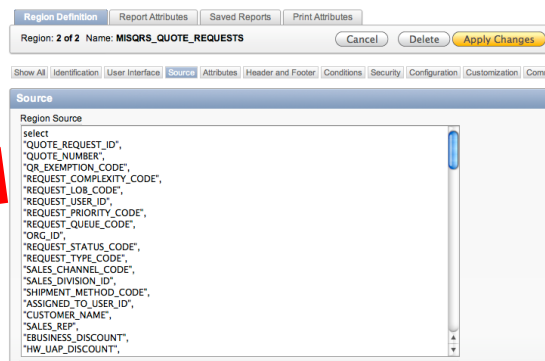
1. Click to edit page



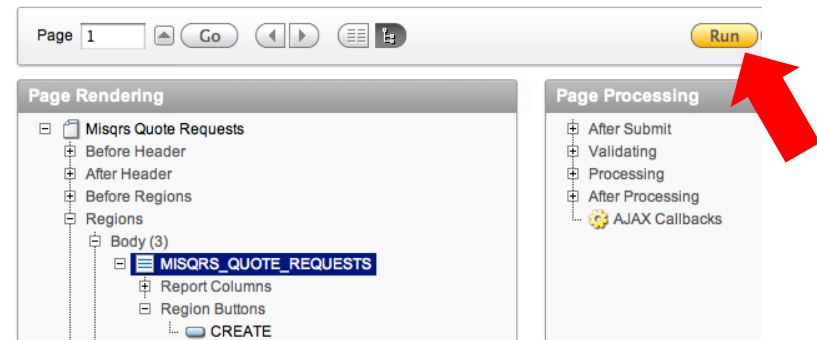
2. Click to edit page component



3. Edit component



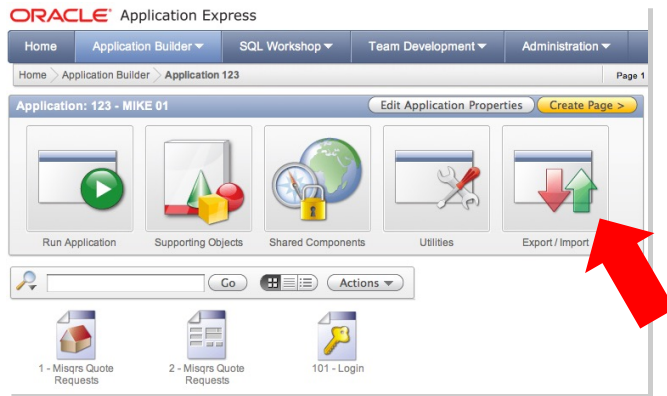
4. Run page to view changes



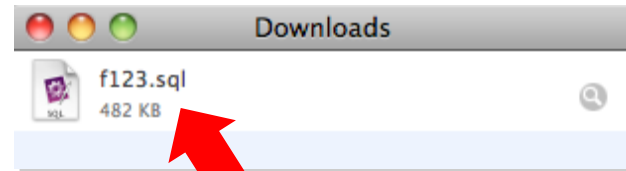
Building Applications in Oracle APEX

Deploying an application

1. Export Application



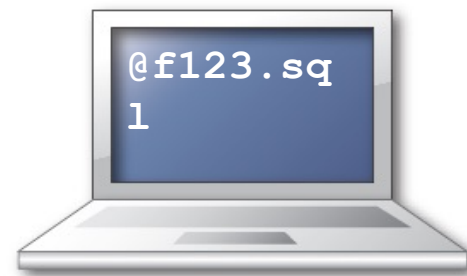
2. Export generates a SQL Script



3. Provide File to DBA



4. DBA Runs Script in Production





Live Demo



Extending Oracle EBS R12 with APEX

Integration options



	Retrieve data from EBS	Update data in EBS
Views	X	
APIs	X	X
OITs (Open Interface Tables)		X
Webservices (incl. BPEL/SOA)	X	X

Integration options #1



```
create view apex_per_people_vw  
as  
select *  
from per_people_x
```

Integration options #2

```
DECLARE
```

```
    v_user_id number;
```

```
BEGIN
```

```
    v_user_id := fnd_user_pkg.createuserid
```

```
    ( x_user_name => 'KEVIN.BOUWMEESTER@ORACLE.COM'
```

```
    , x_owner => 'X'
```

```
    , x_unencrypted_password => 'welcome12'
```

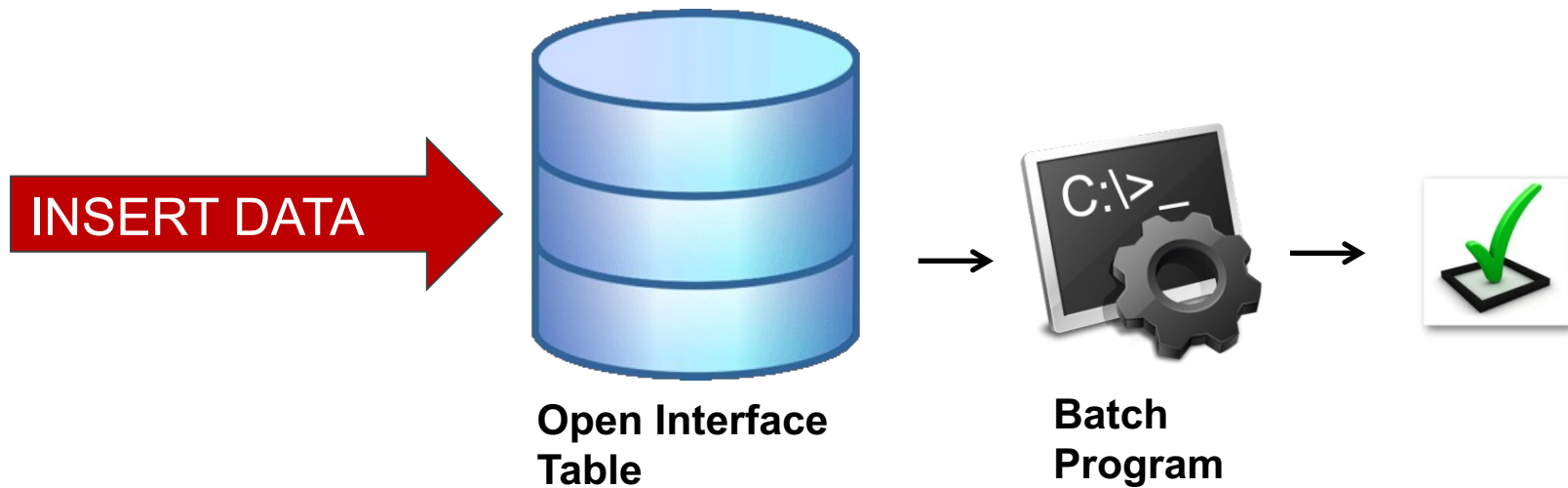
```
    , x_start_date => sysdate);
```

```
COMMIT;
```

```
END;
```



Integration option #3 – Open Interface



Integration Option #4 – Web Service

ORACLE Integration Repository

Home Logout Preferences Help Personalize Page Diagnostics

Integration Repository

View Product Family

- Advanced Planning
- Applications Technology
- Communications
- Contracts Suite
- Discrete Manufacturing
- Exchange Suite
- Financial Globalizations Suite
- Financial Payables Suite
- Financial Receivables Suite
- Financial Services Applications
- Financials
- Human Resources Suite
- Interaction Center
- Marketing Suite
- Marketing and Sales Suite
- Order Management Suite
 - Advanced Pricing
 - Configurator
 - Order Capture
 - Order Management
 - Sales Order**
 - Release Management
 - Shipping Execution Common
 - Transportation Execution
- Process Manufacturing
- Procurement
- Product Lifecycle Management
- Projects Suite
- Public Sector
- Sales Suite
- Service Suite
- Supply Chain Management
- University

Sales Order

Personalize Stack Layout: (ListHeader)

Export Previous 1-10 Next 10

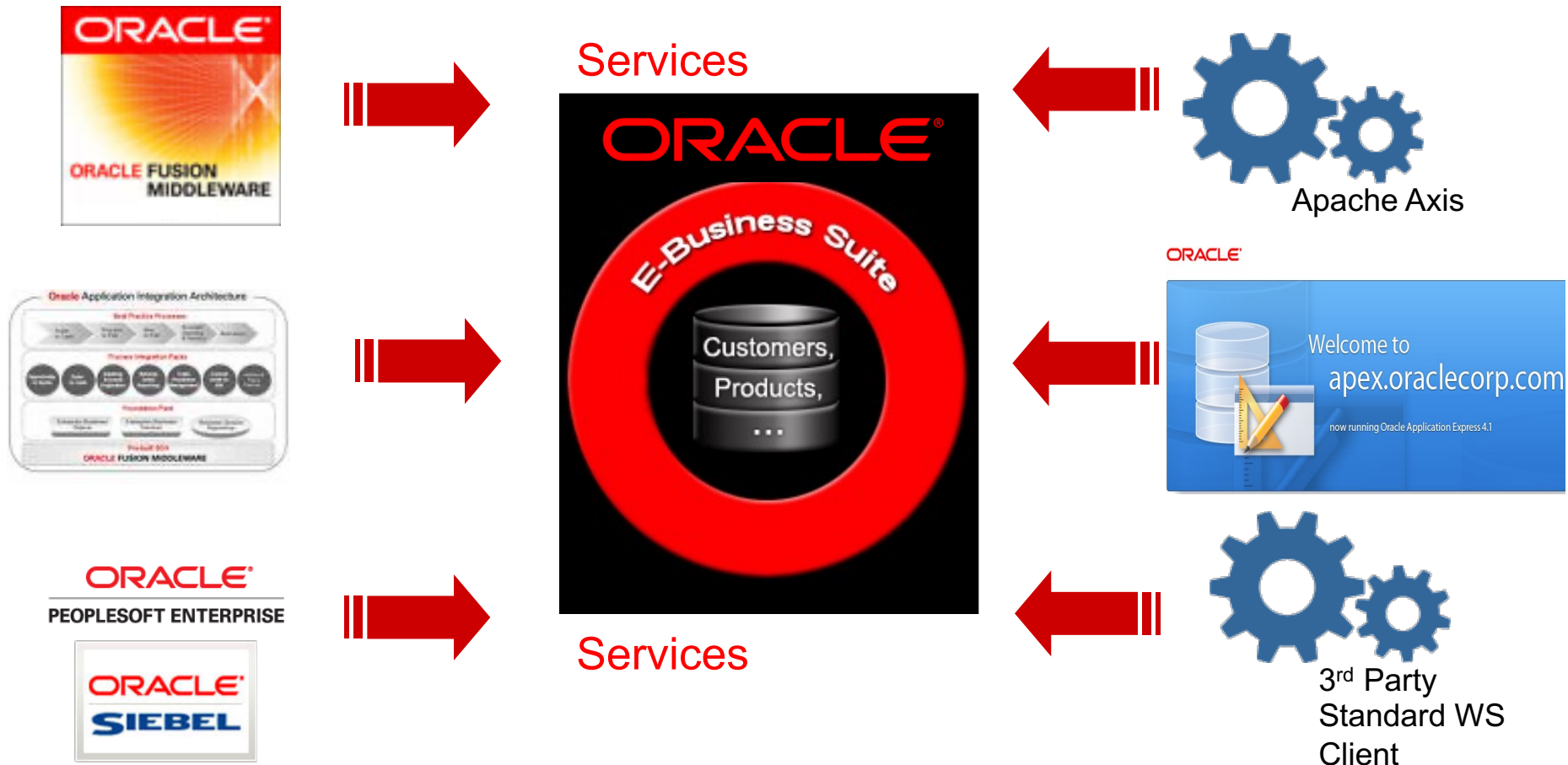
Name	Internal Name	Product	Type	Status	Description
INBOUND: Cancel Purchase Order XML Transaction	ONT:CPO	Order Management	XML Gateway Map	Active	This is the message map to support the inbound Cancel PO (Purchase Order Cancellation) XML transaction which, through the population of data in the header and line open interface tables, allows the full cancellation of sales orders in Order Management and also supports the partial and full cancellation of sales order lines.
INBOUND: Cancel Purchase Order XML Transaction	ONT:CPO	Order Management	Web Service	Active	This is the message map to support the inbound Cancel PO (Purchase Order Cancellation) XML transaction which, through the population of data in the header and line open interface tables, allows the full cancellation of sales orders in Order Management and also supports the partial and full cancellation of sales order lines.
OUTBOUND: Purchase Order Acknowledgment (855/ORDRSP)	EC:POAO	Order Management	EDI	Active	This is the source file to support the outbound Purchase Order Acknowledgments EDI transaction which reports order status after the order has been booked.
OUTBOUND: Purchase Order Change Acknowledgment (865/ORDRSP)	EC:POCAO	Order Management	EDI	Active	This is the source file to support the outbound Purchase Order Change Acknowledgments EDI transaction which reports order status after post-booking changes to the order have occurred.
Order Management Acknowledgments Open Interface	ECEPOAO	Order Management	Open Interface	Active	This concurrent program allows users to run the outbound Purchase Order Acknowledgments EDI transaction which reports order status after the order has been booked.
Order Management Acknowledgments Open Interface	ECEPOCAO	Order Management	Open Interface	Active	This concurrent program allows users to run the outbound Purchase Order Acknowledgments transaction which reports order status after post-booking changes to the order have occurred.
Order Management Profile Option Retrieval API	OE_PROFILE	Order Management	PL/SQL		
Order Management Sales Orders Open Interface	ECEPOCI	Order Management	Open Interface		
Order Management Sales Orders Open Interface	ECEPOI875	Order Management	Open Interface		
Process Order API	OE_ORDER_PUB	Order Management	PL/SQL		

Export

Oracle E-Business Suite Seeded Integration Interfaces

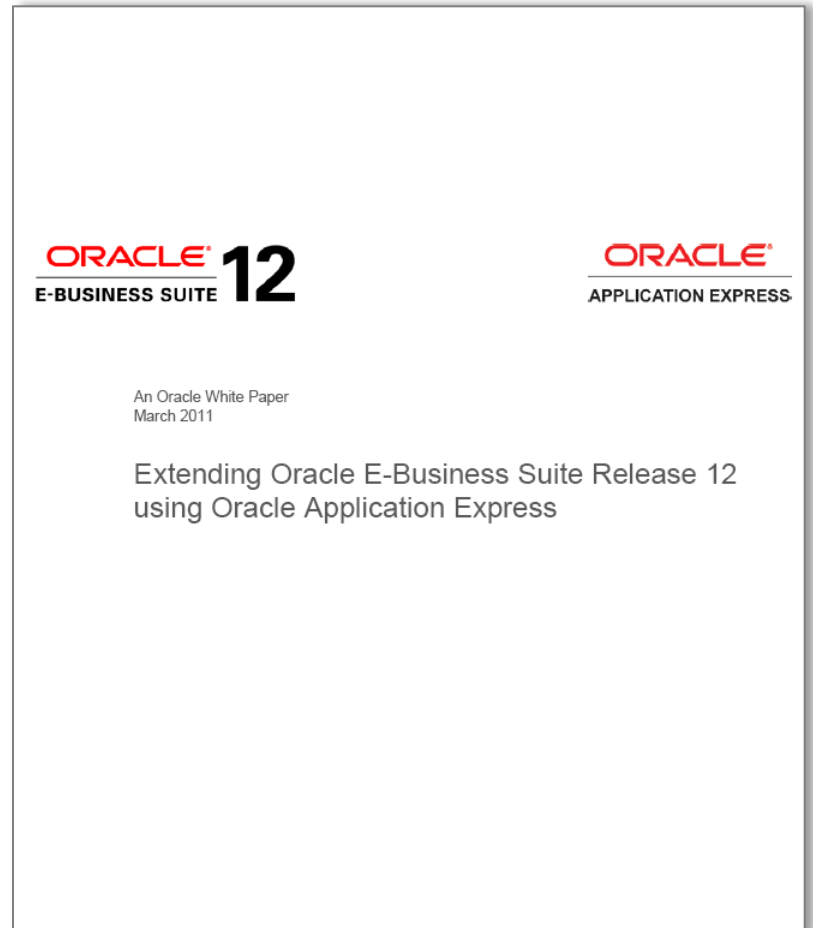
Custom Integration Interfaces (Written by Partners / Customers)

SOA Integration



Oracle White Paper

- Outlines best practices for developing fully supported extensions
- Provides recommended architecture
- Detailed steps for configuration, integration and security
- Includes sample application and code
- Collaboration between Oracle E-Business Suite and Oracle Application Express development teams

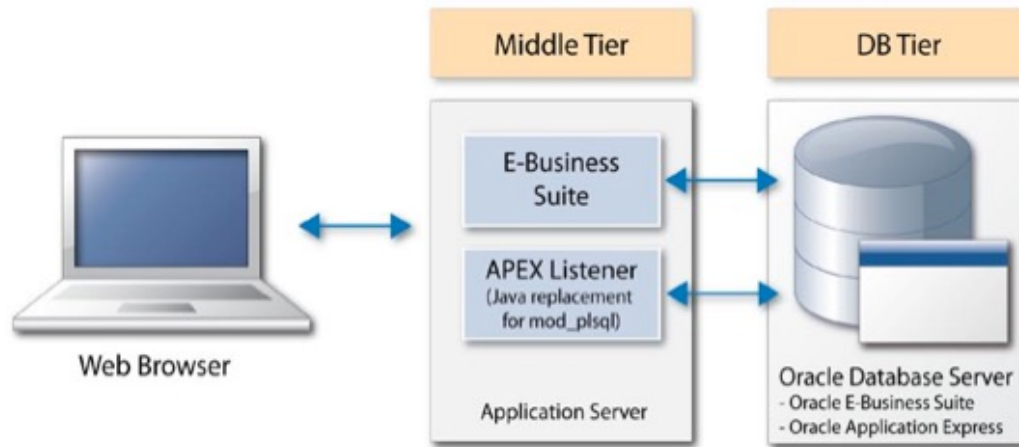


Extending Oracle EBS R12 w/ APEX

Use Cases

- Custom Application Development
 - Building New applications
 - Utilizing custom DB schemas
 - Real time read-only access to EBS data
 - Custom data collection
 - Interfacing via standard APIs
 - Reporting and data analysis
 - Modernization of custom Oracle Forms applications
- Customization of Existing EBS Pages and Process Flows
 - Oracle APEX is NOT capable of supporting this use case

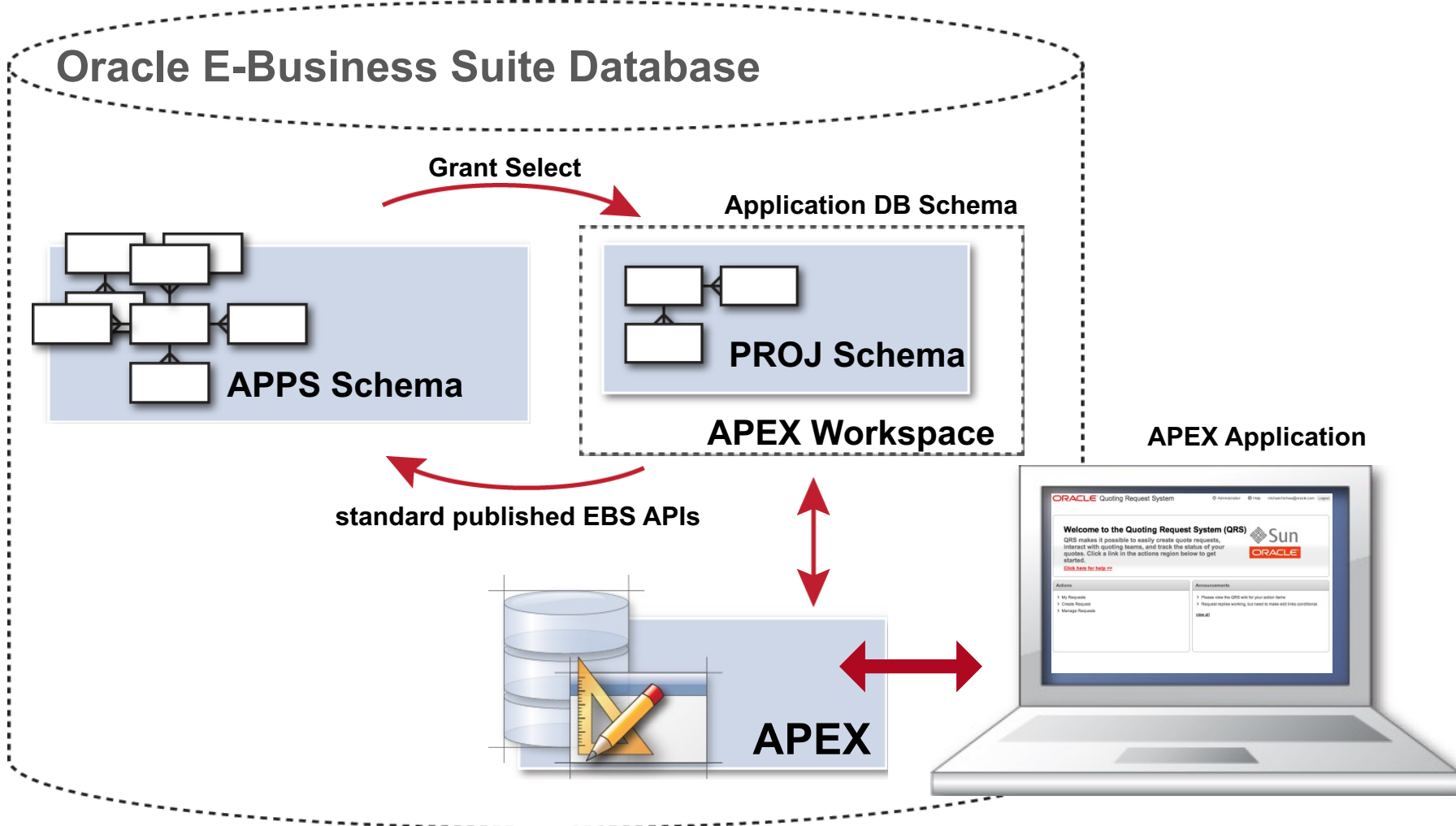
Extending Oracle EBS R12 w/ APEX Architecture



- Runtime only Application Express installed into EBS Database
- Java based APEX Listener provides mid tier
- Oracle HTTP Server (OHS) and mod_plsql are NOT used

Extending Oracle EBS R12 w/ APEX

Architecture



Oracle E-Business Suite Extensions

Development and Deployment

- Development performed on development instance of EBS
- Deployment or patching of applications is via a SQL plus script
- Deployment is performed connected as application schema, not APPS
- Privileges on APPS tables selectively granted to application DB schema
- Using database schema allows applications to run with least privilege
- EBS Menus provide links to APEX Applications
- Look and feel can mimic EBS or use a different user interface theme
- Workspaces allow multiple teams to develop and deploy independently

Oracle E-Business Suite Extensions

Development and Deployment

- SQL within applications is run as the applications database schema
- Database resource manager can constrain resource consumption
- Monitoring of applications can be done using Oracle Enterprise Manager
- Client info is set for each session with application and page
- Oracle APEX sets the client info for each request which allows the DBA to correlate the slow SQL to an application, page, and user (using EM).
- APEX Authentication same as EBS (SSO, OAM, Custom)
- APEX Authorization Schemes enforce EBS roles and responsibilities
- Both SOAP and RESTful web services can be used within applications

Extending Oracle EBS R12 w/ APEX

Differences between Oracle APEX and other Products

- Oracle BI Publisher

- BI publisher complements Oracle APEX by providing enterprise reporting
- Oracle APEX has built in hooks to interface with BI publisher

- OBIEE

- OBIEE is query only, Oracle APEX allows insert, update, delete
- OBIEE supports many databases, APEX supports only Oracle
- Oracle APEX is frequently used to add update capabilities to OBIEE applications

- Oracle JDeveloper and ADF

- Both products are designed to build modern HTML Web Applications
- Oracle APEX is targeted at departmental opportunistic applications with fewer developers
- Oracle APEX is targeted at the SQL professional, JDeveloper is targeted at the Java professional
- Oracle APEX supports self service private cloud with database and application development

- Oracle Forms

- Both are declarative, both leverage developers SQL skills
- APEX builds Native HTML Web Applications, Forms does not
- APEX has greater control over user interface
- APEX allows queries to be built on SQL and not default DB blocks



Internal Examples of Oracle APEX

Internal Examples of Oracle APEX

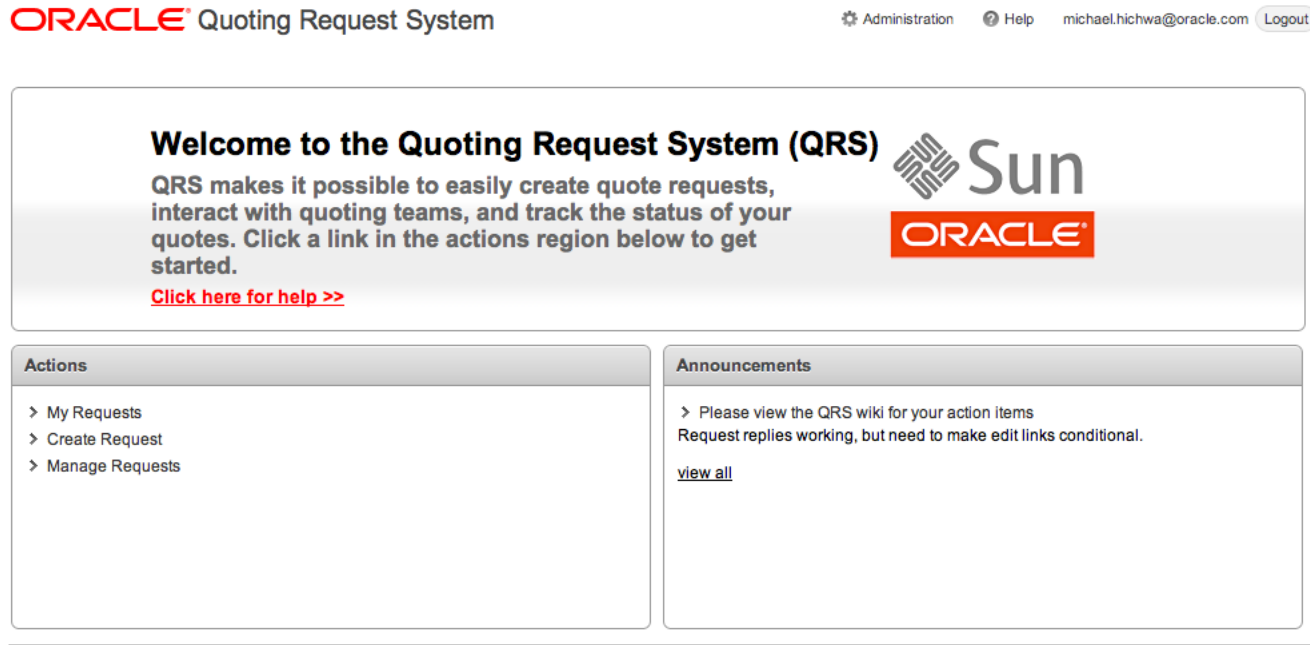
Recently Developed Applications

- Quote Request System (QRS)*
- Oracle Store
- Oracle Partner Store
- Web Quote
- SOLAR – Solutions and Requirements Tracking
- Safeguard*
- Oracle Learning Library
- Resource Request System (RRS)
- Compleitive Programs (Terminate Teradata ...)
- OIP Lite*
- Sun Backlog Reporting (OTRS / GCM / 10.7 / Quoting)

* not yet production

Internal Examples of Oracle APEX

QRS Application – Home Page



- Menu options available controlled via roles and responsibilities
- Administration privileges controlled via roles and responsibilities

<https://gsibb-apex.oraclecorp.com/apex/f?p=12578:100>

Internal Examples of Oracle APEX

QRS Application – Manage Requests

ORACLE® Quoting Request System

Administration Help michael.hichwa@oracle.com Logo

Home Manage Requests Queue

Q- Go Actions ▼ Create Request > Reset Report

	Request	Quote	Summary	Type	Status	Customer	Reseller Customer	Organization	Country	LOB
	2047	3625688	Testing trace	Direct Quote	Triage In	QUALCOMM	-	Oracle America, Inc.	United States	Communications/Telco
	2046	Testing trace	Testing trace	Direct Quote	New	Testing customer	-	Oracle America, Inc.	United States	Communications/Telco
	2044	test country	test country	Direct Quote	New	test country	-	Oracle America, Inc.	United States	Communications/Telco
	1023	3607722	96GB Flash PCIe card - Agilent	Direct Quote	Revised Request	AGILENT TECHNOLOGIES	-	Oracle America, Inc.	United States	Communications/Telco
	1038	3577752	test456	Indirect Quote	New	Klikon Solutions Pty Ltd	test456	Oracle Corporation Australia Pty Limited	Australia	Communications/Telco
	2011	new request - test attachments	new request - test attachments	Internal Order	New	testing attachments from create	-	Oracle America, Inc.	United States	Communications/Telco
	2038	GCM Quote #, WebQuote #	Exadata for Exxon	Indirect Quote	New	Exxon	Partner name	Oracle America, Inc.	United States	Global OEM Customer

- Views control access to rows, all access is controlled by EBS
- Data joined from local tables and EBS tables

Internal Examples of Oracle APEX

QRS Application – Quote Details

Product Lines

line 1.0.1 should be quantity 5

Line #	Part #	Description	Unit List Price	Quantity	Extended Net Price
1.0	✓ XTA-FAS-S3IE96GB-N	96GB Flash PCIe card	US\$4695	1	US\$3286.5
1.0.1	✓ B58121	Oracle Premier Support for Systems	US\$563.4	1	US\$394.38
Oracle Premier Support for Systems		✓ Indicates supported item(s)			US\$368.088
				Total	US\$4048.97

- Page allows comments to be placed by sales to quoters
- Details of quote pulled directly from quoting
- Change requests and quote responses all stored in local tables
- MISQRS schema on GSI owns local tables

Internal Examples of Oracle APEX

QRS Application – Local Tables

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Tables

- HTMLDB_PLAN_TABLE
- MISQRS_ANNOUNCEMENTS
- MISQRS_ATTACHMENTS
- MISQRS_CHANGE_ENTRY**
- MISQRS_COUNTRY_ORG
- MISQRS_LOG_NOTES
- MISQRS_NOTIFICATION_CONTACT
- MISQRS_OPS_COUNTRY_TEMP
- MISQRS_ORGANIZATION
- MISQRS_QUOTE_REQUESTS
- MISQRS_REGIONS_V_TEMP
- MISQRS_USER_ACL
- PAT_TEST
- TESTMG_DEBUG

MISQRS_CHANGE_ENTRY Create

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL

Add Column Modify Column Rename Column Drop Column Rename Copy Drop Truncate Create Lookup Table

Column Name	Data Type	Nullable	Default	Primary Key
CHANGE_ENTRY_ID	NUMBER	No	-	1
CHANGE_ENTRY_STATUS	VARCHAR2(30)	Yes	-	-
QUOTE_REQUEST_ID	NUMBER	Yes	-	-
REQUEST	CLOB	Yes	-	-
RESPONSE	CLOB	Yes	-	-
CREATED_BY	NUMBER	Yes	-	-
CREATED_DATE	TIMESTAMP(0) WITH LOCAL TIME ZONE	Yes	-	-
LAST_UPDATED_BY	NUMBER	Yes	-	-
LAST_UPDATED_DATE	TIMESTAMP(0) WITH LOCAL TIME ZONE	Yes	-	-
RESPONSE_CREATED_BY	NUMBER	Yes	-	-
RESPONSE_CREATED_DATE	TIMESTAMP(0) WITH LOCAL TIME ZONE	Yes	-	-
RESPONSE_LAST_UPDATED_BY	NUMBER	Yes	-	-
RESPONSE_LAST_UPDATED_DATE	TIMESTAMP(0) WITH LOCAL TIME ZONE	Yes	-	-

1 - 13

- List of tables owned by database schema MISQRS
- Note ability to add columns and create new tables

Internal Examples of Oracle APEX

QRS Application – Views on EBS data

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Views

- MISQRS_EMPLOYEES_V
- MISQRS_QUOTE_HEADERS_V
- MISQRS_QUOTE_LINES_V
- MISQRS_QUOTE_LINES_V_NR
- MISQRS_QUOTE_REQUESTS_OR
- MISQRS_REGIONS_V
- MISQRS_SALES_DIVISION_V
- MISQRS_SHIPMENTS_V
- MIS_ASO_SHIPMENTS_V_NR

View Code Data Grants UI Defaults Dependencies SQL

```
CREATE OR REPLACE FORCE VIEW "MISQRS_EMPLOYEES_V" ("USER_ID", "EMAIL_ADDRESS", "FIRST_NAME", "LAST_NAME")
  select d.user_id, a.email_address, a.first_name, a.last_name
from    hr_people_11_12_data_v a
        , HR_PERSON_TYPES_LOOKUP_V c
        , FND_USER d
WHERE   1=1
and     a.person_type_id = c.person_type_id
and     sysdate between a.effective_start_date and a.effective_end_date
and     sysdate between a.pptuf_effective_start_date and a.pptuf_effective_end_date
and     a.current_employee_flag = 'Y'
and     c.user_person_type = 'Employee'
and     c.active_flag = 'Y'
and     a.person_id = d.employee_id
/
```

- Browsing database views shows references to APPS tables
- Developer only sees what the MISQRS schema has been granted



(Live) Demo
See Blog

Demo

Accessing EBS data from APEX

- Create new APEX application
- Interactive Report with all employees
 - Query data from EBS through a View
- Form to update email address of employee
 - Update through EBS API from APEX
- Calendar with the birthdays of the employees
- Chart when people where hired
- Call the chart from the EBS menu
 - Automatic Authentication and Authorization
 - EBS Profiles, Function, Menu, Responsibility



APEX Workshop

APEX Workshop

19-JUN-2012

- Surf to OBE (Oracle By Example)

http://apex.oracle.com/pls/apex/f?p=44785:24:0::NO:24:P24_CONTENT_ID,P24_PREV_PAGE:6265,2



Building an Application using Oracle Application Express: Part 1

OBE Details



Learn how to use Application Express to load data into your database, create an application with a variety of page types (including a interactive report, calendar and data load wizard). You also learn how to create and apply List of Values (LOV) and validations.

Release Date 14-MAY-2012
Duration 60 mins
Average Rating ★★★★★



Enhancing Your Oracle Application Express Application: Part 2

OBE Details



Learn how to enhance your Application Express application by switching to a different theme, creating a chart, dynamic actions, plug-ins and tabular form with a validation

Release Date 14-MAY-2012
Duration 60 mins
Average Rating ★★★★★

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APEX Workshop

19-JUN-2012

- Surf to your workspace
<http://aws1.apex-evangelists.com>
- Workspace: TRAINXX
- Username: admin
- Password: trainxx

APEX Workshop

19-JUN-2012

- Download the zip file

http://aws1.apex-evangelists.com/pls/apex/f?p=OBUG_HEALTH:DOWNLOAD

- Install the database script
 - SQL Workshop > SQL Scripts > Upload
 - 1_install_hr.sql
 - 2_install_pr.sql



dimitri@apex-evangelists.com

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