
Lisa Parekh
Vice President, Applications Technology Integration, E-Business Suite
Agenda

• E-Business Suite Technology Overview
• Technology Priorities
  – Offer ease of use
  – Enable effective security
  – Simplify integration
  – Deliver business intelligence
  – Ensure optimal performance
  – Reduce cost of ownership
• Technology Uptake Guidance
Technology Overview
Release 12 Technology Stack
3-Tier Logical Architecture

Client

Application

Database

10g
OC4J
JSP
BC4J
UIX
BI Publisher
Forms

10gR2 or 11g

Global Single Data Model
RAC & ASM

ORACLE

FUSION MIDDLEWARE
APPLICATION SERVER

ORACLE

DATABASE

HTTP/S

JDBC/SQL Net
Desktop Client Tier

Windows 7
Windows Vista
Windows XP

Internet Explorer 6, 7, 8
Firefox 3.x
Sun JRE 1.6.0_03+

Mac OS X 10.4
Mac OS X 10.5
Mac OS X 10.6
Safari 2, 3, 5
R12 E-Business Suite Application Server Tier

App Server 10.1.3
ORACLE_HOME

App Server 10.1.2
ORACLE_HOME

MT1
MT2
MT3

ORACLE_CONFIG_HOME

APPL_TOP
COMMON_TOP
Oracle E-Business Suite Database Versions

10gR2 (10.2.0.5) certified for 11i, 12.0, 12.1.
10gR2 transitioned from Premier Support to Extended Support in July 2010.

11gR1 (11.1.0.7) certified for 11i, 12.0, 12.1.
11gR2 (11.2.0.1) certified for 11i, 12.0, 12.1 on most platforms.

Database options supported with E-Business Suite include:

- Advanced Compression
- Data Guard
- Advanced Security
- Database Partitioning
- Database Vault
- Real Application Clusters (RAC)
- Real Application Testing
Database Server 11g

Upgrade to 11g to take advantage of:

- ASM Fast Disk Resync, Preferred Mirror Read, Fast VLDB Start, Rolling Migration
- Transparent Data Encryption Improvements
- More Partitioning options
- Partition Advisor
- Database Replay
- SQL Performance Analyzer
- New compiler optimized for PL/SQL native compilation
- Transportable Databases
- Advanced Compression

11gR2 adds:

- Simplified RAC configuration
- Faster query performance
- Hybrid columnar compression with Exadata
## External Technology Certifications

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<thead>
<tr>
<th>Technology</th>
<th>Release 11i</th>
<th>Release 12</th>
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<tbody>
<tr>
<td>Oracle Access Manager</td>
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<td>Discoverer</td>
<td>11.1.1.2</td>
<td>11.1.1.2</td>
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<td>Business Intelligence (EE+)</td>
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<td>11.1.1.2</td>
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<tr>
<td>Enterprise Manager</td>
<td>10gR5</td>
<td>10gR5</td>
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</table>
Future Certifications

Desktop client
- MS Office 2010
- IE 9
- Firefox 4

Application server
- Java (JDK) 7
- Web Logic Server 11g
  - under consideration for a future release

External technologies
- Oracle Access Manager 11gR1
- Oracle Internet Directory 11.1.1.3
- OBIEE 11.1.1.3
- Discoverer 11.1.1.3
- Portal 11.1.1.3
- Web Center 11.1.1.3
- Web Cache 11.1.1.2
- Enterprise Manager 11g

Database
- Database 11gR2 11.2.0.2
Technology Priorities
Technology Priorities

- Offer Ease of Use
- Enable Effective Security
- Simplify Integration
- Deliver Business Intelligence
- Ensure Optimal Performance
- Reduce Cost of Ownership
Better User Experience in Release 12

- Reduced pop-ups and duplicate screens
- Re-designed and streamlined entire workflows
- Reduced the number of steps to complete key tasks
- Improved overall look & feel and visual style
- Increased personalization capabilities

Improved Workflow in Targeted Areas

- Campaign Management
- Customer Support
- Collections & Payments
- Loan Management
- Financial Consolidation
- Online Candidate Registration
- Absence Management
- Salary Administration
- Self-Service Purchasing
- Sourcing
- Supplier Collaboration
- Business Intelligence
OA Framework 12.1.2 Rich UI
Configurable Home Page

New Favorites Menu
New Navigator Tree
OA Framework 12.1.2 Rich UI
Look-ahead List of Values (LOV)

[Image of OA Framework 12.1.2 Rich UI interface with Look-ahead List of Values (LOV) feature highlighted]
OA Framework 12.1.2 Rich UI
Embedding Rich Content

- New Rich Container to embed third-party rich content
- Seamless and transparent context sharing between embedded content and base page content
Secure Enterprise Search

**Embedded Search Example: R12**

- **Search for all laptop service requests**

- **Search results in tabular format**

  - Search results links directly navigates to the corresponding page
Extensible Desktop Integration with Web ADI

Design time framework to create Web ADI Integrators

Integrator > Interface > Component > Content > Business Rule

Custom Integrators

Desktop Integration Framework

Web ADI Integrates Oracle E-Business suite with popular desktop tools

Use an out-of-the-box integrator, or build your own!
Building Custom ADF Applications for use with EBS

Use E-Business Suite SDK for Java

- Write new Java EE applications with ADF, and deploy on external application server
- Use E-Business Suite JAAS for security integration
- Use AppsDataSource to access EBS database
- Optionally embed ADF content in OA Framework region
Technology Priorities

- Offer Ease of Use
- Enable Effective Security
- Simplify Integration
- Deliver Business Intelligence
- Ensure Optimal Performance
- Reduce Cost of Ownership
Oracle Security Inside Out

**Database Security**
- Encryption and Masking
- Privileged User Controls
- Multi-Factor Authorization
- Activity Monitoring and Audit
- Secure Configuration

**Identity Management**
- User Provisioning
- Role Management
- Entitlements Management
- Risk-Based Access Control
- Virtual Directories

**Information Rights Management**
- Track and Audit Document Usage
- Control and Revoke Document Access
- Secured Inside or Outside Firewall
- Centralized Policy Administration
Identity Management with E-Business Suite
Oracle Single Sign-On & Oracle Internet Directory

Oracle Internet Directory 10g or 11g

User
E-Business Suite Application Server
Oracle Single Sign-On 10gR2
OID LDAP Directory
E-Business Suite Database
Identity Management with E-Business Suite
Oracle Access Manager certification

- Use multiple authentication schemes
- Heterogeneous support for other web servers
- “Instant” integration with Oracle Identity Federation, Oracle Adaptive Access Manager, third-party authentication
## Data Masking

### Production

<table>
<thead>
<tr>
<th>LAST_NAME</th>
<th>SSN</th>
<th>SALARY</th>
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<tbody>
<tr>
<td>AGUILAR</td>
<td>203-33-3234</td>
<td>40,000</td>
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<tr>
<td>BENSON</td>
<td>323-22-2943</td>
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### Non-Production

<table>
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<th>SSN</th>
<th>SALARY</th>
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<td>ANSKEKSL</td>
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<tr>
<td>BKJHHEIEDK</td>
<td>222-34-1345</td>
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</tr>
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</table>

### What
- The act of anonymizing customer, financial, or company confidential data to create new, legible data which retains the data's properties, such as its width, type, and format.

### Why
- To protect confidential data in non-production environments when the data is shared with non-production users.

### How
- Enterprise Manager Data Masking Pack
- E-Business Suite masking templates (*under development for future release*)
Technology Priorities

- Offer Ease of Use
- Enable Effective Security
- Simplify Integration
- Deliver Business Intelligence
- Ensure Optimal Performance
- Reduce Cost of Ownership
Service-based Integration – What does it take?

Service Enablement of Participating Applications
- Integration points defined by the application
- Ability to send and receive messages
- Catalog of information about what services are available

Middleware
- Message routing
- Business process orchestration
- Business activity monitoring

Business Process Definition and Automation
- Business process flows
- Common object definitions and semantics
- Transformations
Oracle E-Business Suite Integration

Business Integration Technologies

Integration Repository

<table>
<thead>
<tr>
<th>PL/SQL APIs</th>
<th>Interface Tables</th>
<th>Concurrent Programs</th>
<th>XML Gateway</th>
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<tbody>
<tr>
<td>BSO</td>
<td>Java APIs</td>
<td>Interface Views</td>
<td>eCommerce Gateway</td>
</tr>
</tbody>
</table>

Business Event System

Oracle Workflow
E-Business Suite SOA Enablement
Integration Repository

A Catalog of All E-Business Suite Integration Points

- Web Services
- Public Java & PL/SQL APIs
- Business Events
- Batch Interfaces

- Search and view available interfaces by product family, standard, or interface type
- Hosted for 11.5.10: http://irep.oracle.com
- Shipped with Release 12 – automatically matches the patch level at your own site
- Supports custom service interfaces
Oracle E-Business Suite Integration

Business Integration Technologies

Web Services

Integrated SOA Gateway

EBS Adapter

Integration Repository

PL/SQL APIs

Interface Tables

Concurrent Programs

XML Gateway

BSO

Java APIs

Interface Views

eCommerce Gateway

Business Event System

Oracle Workflow

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Oracle E-Business Suite Adapter
Integration Solution Overview

- Leverages Integration Repository
- Secured and Trusted Connection
- Function Security Enabled
- Application Context Ready
- Transaction Support
- Customization Support
Oracle E-Business Suite Integrated SOA Gateway

Out-of-the-box Web Service enablement for 12.1

The above reflects Oracle's current development plans which are subject to change at any time.
Fusion Middleware, SOA Suite
Application Integration Architecture

**Direct Integrations**
*Manage.* Pre-built integrations to support data flows between systems

**Process Integration Packs**
*Optimize.* Pre-built composite business processes across enterprise Applications

**Foundation Pack**
*Standardize.* Common Object and Shared Service Library with supporting SOA programming model and best practice implementation methods

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**Oracle Application Integration Architecture**

- **Process Integration Packs**
  - Loosely coupled composite business processes

- **Foundation Pack**
  - Comprehensive process composition framework
Service-based Integration – What does it take?

- Service Enablement of Participating Applications
- Middleware
- Business Process Definition and Automation
- E-Business Suite Interfaces
- Integration Repository
- Integrated SOA Gateway
- Fusion Middleware
- E-Business Suite Adapter
- Application Integration Architecture
Technology Priorities

- Offer Ease of Use
- Enable Effective Security
- Simplify Integration
- Deliver Business Intelligence
- Ensure Optimal Performance
- Reduce Cost of Ownership
Oracle Business Intelligence Enterprise Edition
Enables Flexibility, Extensibility, Standardization

Data Integration
Ad-hoc Analysis
Interactive Dashboards
Essbase Analytics
Reporting & Publishing
Proactive Detection and Alerts
Disconnected & Mobile Analytics
MS Office & Outlook Integration

Common Enterprise Information Model
Integrated Security, User Management, Personalization
Multidimensional Calculation and Integration Engine
Intelligent Request Generation and Optimized Data Access Services

OLTP & ODS Systems
Data Warehouse
Data Mart
Essbase
Oracle, SAP, Siebel
PeopleSoft, JD Edwards
Custom Apps
Files Excel
XML
Business Process
Oracle Business Intelligence Applications

Oracle Business Intelligence (BI) Applications

Common Enterprise Information Model

Oracle Business Intelligence Server

Packaged ETL Maps
Universal Adapters

Other Datasources
- IVR, ACD, CTI
- Hyperion
- MS Excel
- Syndicated

Oracle Business Analytics Warehouse Schema

Interactive Dashboards | Reporting & Publishing | Ad-hoc Analysis | Proactive Detection and Alerts | Disconnected Analytics | MS Office Plug-in | Web Services
---|---|---|---|---|---|---
Sales | Service & Contact Center | Marketing | Order Management & Fulfillment | Supply Chain | Financials | Human Resources
Example: Financial Analytics Components

1. Pre-built warehouse with 16 star-schemas designed for analysis and reporting on financial analytics

2. Pre-built ETL to extract data from over 3,000 operational tables and load it into the DW, sourced from PSFT, Oracle EBS and other sources

3. Pre-mapped metadata, including embedded best practice calculations and metrics for financial, executives and other business users

4. A “best practice” library of over 360 pre-built metrics, 30 intelligent dashboards, 200+ reports and several alerts for CFO, Finance Controller, Financial Analyst, AR/AP Managers and Executives
## BI Applications - Business Content

Over 8,000 pre-defined assets

<table>
<thead>
<tr>
<th>BI Application</th>
<th>Dashboards</th>
<th>Dashboard Pages</th>
<th>Reports</th>
<th>Metrics</th>
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<tr>
<td>Sales</td>
<td>14</td>
<td>33</td>
<td>620</td>
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<td>Price</td>
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<td>Financials</td>
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<td>Supply Chain &amp; Order Mgmt</td>
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<td>364</td>
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<tr>
<td>Procurement &amp; Spend</td>
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<tr>
<td>Project</td>
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<td>15</td>
<td>146</td>
<td>323</td>
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<td>All Industry Apps</td>
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<td>147</td>
<td>1,117</td>
<td>1,216</td>
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<td><strong>Total</strong></td>
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<td><strong>429</strong></td>
<td><strong>3,268</strong></td>
<td><strong>5,075</strong></td>
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</table>
Business Intelligence Applications

Deployment Options

Standalone Interactive Dashboards

BI in a Portal via JSR-168/WSRP

Embedded links in EBS
New in 12.1.2: OBIA content embedded in EBS pages

Embed custom content such as OBIA analytics in new rich container
**Business Intelligence Applications**

**Insight to Action via Action Links**

- Seamless navigation from analytical information to transactional detail while maintaining context
- Works with Oracle EBS, Siebel CRM, PeopleSoft

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**Top 10 Orders**

<table>
<thead>
<tr>
<th>Sales Order Number</th>
<th>EBS Action Link</th>
<th>Customer Name</th>
<th>Source Order Status Description</th>
<th>Total Ordered Amount</th>
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<tbody>
<tr>
<td>100173</td>
<td></td>
<td>Computer Service and Rentals</td>
<td>Closed</td>
<td>$739,418</td>
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<tr>
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<td>Closed</td>
<td>$50,576</td>
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**Sales Order 100173**

**Action Links**

- General
  - Customer Name: Computer Service and Rentals
  - Order Date: 18-Dec-2001 04:25:06
  - Ship Date: 18-Jan-2002 04:25:21
  - Status: Closed
  - Quality Plan: View Quality Plan
  - Invoice Information: View Invoice Information

- Lines
  - Line Number: 1.1
  - Item: 602000 Consulting/Training
  - Ordered Quantity: 420
  - UOM: Ea
  - Fulfilled: 420
  - Unit Price: 17.
BI Publisher
Business Users Format and Deliver Documents

Data Sources
- Oracle Applications
  - CRM
  - ESA
  - FMS
  - HCM
  - SCM
- Any XML Data Source

Output Formats
- PDF
- HTML
- XML
- EDI
- Excel

Destination
- Email
- Printer
- Fax

Integrate Out-of-the-Box with Oracle Applications

Business User

Publishing Engine

Templates

PDF
RTF
XML
EDI
Excel

Letters
Fund Transfers
Bills
Order Confirmations
Online Paychecks
Government Grant Forms
Oracle BI Publisher
Better Document Publishing

Complete template coverage for Reports in 12.1, plus flexibility to create your own
Technology Priorities

- Offer Ease of Use
- Enable Effective Security
- Simplify Integration
- Deliver Business Intelligence
- Ensure Optimal Performance
- Reduce Cost of Ownership
Real Application Clusters

Use RAC to spread load across multiple servers

Improve performance and availability

Simplified configuration with 11gR2 database
Improve Storage and Performance
Advanced OLTP Compression

- Compress large application tables
  - Transaction processing, data warehousing
- Compress all data types
  - Structured and unstructured data types
- Improve query performance
  - Cascade storage savings throughout data center

Up To
4X Compression
Advanced Compression in Oracle’s Internal EBS

Implemented compression with Oracle’s Internal E-Business Suite
- 4-node Sun E25K RAC; Compressed 100 largest tables and associated objects with 11g

Results
- Average database storage savings 3x
- Table compression 4x
- Index compression 2x
- LOB compression 1.8x

Saved 7.6 TB for the single database instance.

This works out to 95 TB of total storage savings across primary, standby, test, dev and backup instances.
Improve Storage and Performance
Exadata Storage Server – Hybrid Columnar Compression

• Data stored by column and then compressed
• Useful for data that is bulk loaded or moved
• **Query mode** for data warehousing
  – Typical 10X compression ratios
  – Scans improve accordingly
• **Archival mode** for old data
  – Typical 15- 50X compression ratios

Up To 50X
E-Business Suite and Active Data Guard

• Use your Active Data Guard standby instance to offload reporting load
• Works for read-only EBS reports
  – Test mode in primary makes it possible to determine whether a report will run successfully on standby
• Available as a patch on top of 12.1.3
• Now seeking early adopter customers
Technology Priorities

Offer Ease of Use
Enable Effective Security
Simplify Integration
Deliver Business Intelligence
Ensure Optimal Performance
Reduce Cost of Ownership
Reduce Cost through Better System Management
Application Management Suite for E-Business Suite

System Management

Application Management Pack for Oracle E-Business Suite (AMP)
- Centralized Management
- Pro-active Monitoring
- Automated Cloning

Enterprise Manager
- Grid Control

Change Approval
- Customization Manager
- Patch Manager
- Setup Manager

Change Management

Application Change Management Pack for Oracle E-Business Suite (ACMP)
Application System Management Solution for EBS

Application Change Management Pack
for Oracle E-Business Suite

Application Management Pack
for Oracle E-Business Suite

Oracle Enterprise Manager
Grid Control

Centralized management of multiple environments

- Monitor concurrent requests, workflows, user sessions
- Report on history & trends
- Automate repetitive DBA tasks
- Automate cloning and track status
Application Change Management Solution for EBS

Application Change Management Pack
for Oracle E-Business Suite

Automated deployment across different environments

• Oracle EBS patches
• Your own customized patches
• Functional setups

Application Management Pack
for Oracle E-Business Suite

Oracle Enterprise Manager
Grid Control
Reduce Cost through Reduced Downtime
Lightweight Multilingual Support -- New in 12.1.3

• Support data entry and reporting in a new language without installing and maintaining the full application translation
• Any E-Business Suite supported language can be enabled
• Fully patched and lightweight languages can coexist
• Reduce overhead associated with patching languages you’re only using for data
• Move to full translation at any time
Reduce Cost through Reduced Downtime

- Reduce downtime by applying patches to a staged APPL_TOP
- Newly supported:
  - Use staged APPL_TOP to upgrade from 11i to 12
  - One large early adopter customer found this saved 12 hours of upgrade time!
Reduce Cost through Reduced Downtime
Online Patching for E-Business Suite (future)

• Leverages 11gR2 Edition Based Redefinition
  – Multiple application editions are stored in a single database
  – Changes to "Patch Edition" are isolated from Running Edition

• Apply EBS patches while the applications remain online
  – Full functionality, minimal performance impact
  – Downtime is reduced to a short system bounce

• Under analysis for a future E-Business Suite release
  – Supported for all patches and upgrades after the base release
Reduce Cost through Virtualization

Oracle VM is certified with EBS 11i, 12.0, and 12.1

- Achieve better, more flexible hardware utilization
- No license cost

Oracle VM features include:

- Dynamic resource management
- Insight into performance and utilization at every level
- High availability with automatic restart
- Support for VM templates
Reduce Cost through Virtualization

Oracle VM Templates for EBS:
- EBS 12.1 Vision Demo Database tier (OEL 5.3 + 11.1.0.7 DB)
- EBS 12.1 Application Server tier (OEL 5.3)

EBS Virtualization Kit:
- Scripts to configure and wire together the EBS VMs
- Set instance names, IP addresses upon first boot
Technology Uptake Guidance
Minimum Extended Support Baseline for EBS 11i
Note 883202.1

1. EBS 11.5.10 with Consolidated Update 2
   • ATG Rollup Patchset 6 (Patch 5903765)
   • Database 10.2.0.4 or 11.1.0.7
   • Forms6i Patchset 19 (Version 6.0.8.28, Patch 6194129)
   • Oracle HTTP Server MLR Patchset 4393827
   • Sun Java Runtime Engine (JRE) 1.6.0_03 or higher

2. EBS patches listed for all licensed products

and
What 11i Baseline Patches Do You Need?

Use EBS Patch Wizard to generate a report (Patch 9803629)

<table>
<thead>
<tr>
<th>Product Family</th>
<th>Recommended Patches</th>
<th>New Code Level</th>
<th>Minimum Baseline Support</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applications Technology</td>
<td>☐</td>
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<td>☑</td>
</tr>
<tr>
<td>Applications Updates</td>
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<td>Financial Receivables Suite</td>
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</table>
Use Current Technologies

• Update your environment to use latest certified versions, and benefit from:
  – Enhancements
  – Performance improvements
  – Fastest access to new patches

• Watch for new certifications
Consider New Technology Uptake

- **AIA Web Services**
- **Business Intelligence Apps**
- **Identity Management**

- **WebCenter**
- **BI Publisher**
- **Enterprise Manager**

ORACLE
Benefit by upgrading to Release 12.1

• Later Technology
  – Database 10gR2 baseline enables multi-org access control and faster performance in Release 12
  – Use OC4J for load balancing
  – Use Jdeveloper 10.1.3 for extensions
  – Move to new hardware platforms easily

• End User Productivity
  – Improved user interface in Release 12 with more in 12.1
  – Secure Enterprise Search embedded in EBS user interface
  – Enhancements to Personalization Framework
  – Use EBS content in Web Center and 3rd party portals
Benefit by upgrading to Release 12.1

• Security
  – Data Masking templates (to come on top of 12.1.3)

• Integration
  – Integration Repository shipped with the Applications
  – Integrated SOA Gateway for out-of-the-box web services

• Business Intelligence
  – Broad BI Publisher uptake
  – Embed analytics content in Framework pages
Benefit by upgrading to Release 12.1

- Performance and Availability
  - Active Data Guard reporting integration

- Reduced Cost of Ownership
  - E-Business Suite VM templates
  - Lightweight MLS
# Related Demos

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<td>Upgrading to Oracle E-Business Suite 12.1</td>
<td>Moscone South, S-089</td>
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<tr>
<td>Advanced Architectures and Technology Stack Components</td>
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<tr>
<td>SOA-Based Integration for Oracle E-Business Suite</td>
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<td>Oracle Applications Framework Rich UI and Enhanced Web ADI</td>
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</table>
Additional Related Sessions

Applications Tools and Technology Track

- **Focus On Applications Tools and Technology (Oracle E-Business Suite)**

E-Business Suite Technology Stack Blog

blogs.oracle.com/stevenChan

- Direct from EBS Development
- Latest EBS techstack news
- Certification announcements
- Primers, FAQs, tips
- Desupport reminders
- Advanced architectures
- Statements of Direction
- Early Adopter Programs

Subscribe via email & RSS
Related Sessions – Technology Overview

**Tuesday, September 21**

- Quick Wins That Will Make You a Hero: Oracle E-Business Suite Technology (S318132)
  12:30 pm-1:30 pm, Moscone West L2 Rm 2024

**Wednesday, September 22**

- Oracle E-Business Suite Technology Certification Primer and Roadmap (S318119)
  10:00 am-11:00 am, Moscone West L2 Rm 2024
# Related Sessions – UI and Extensions

## Monday, September 20

- **Rich User Interface in Oracle Application Framework Modules (S318128)**  
  3:30 pm-4:30 pm, Moscone West L2 Rm 2020

## Tuesday, September 21

- **Hands-On Lab: Building Desktop Integrators with Oracle Web Applications Desktop Integrator (S318746)**  
  2:00 pm-3:00 pm, Marriott Marquis Nob Hill CD  
- **Hands-On Lab: Oracle Application Framework Usability (S318745)**  
  5:00 pm-6:00 pm, Marriott Marquis Nob Hill CD

## Wednesday, September 22

- **Upgrading Your Customizations to Oracle E-Business Suite Release 12 (S318125)**  
  11:30 am-12:30 pm, Moscone West L2 Rm 2024  
- **Using Oracle Web Applications Desktop Integrator for Rapid Desktop Integrations (S318129)**  
  1:00 pm-2:00 pm, Moscone West L2 Rm 2024  
- **Extending Oracle E-Business Suite with Oracle ADF and Oracle SOA Suite (S318061)**  
  4:45 pm-5:45 pm, Moscone West L2 Rm 2020

## Thursday, September 23

- **Personalize, Customize, and Extend Oracle E-Business Suite User Interface (S318130)**  
  10:30 am-11:30 am, Moscone West L2 Rm 2024  
- **Hands-On Lab: Building Desktop Integrators with Oracle Web Applications Desktop Integrator (S318746)**  
  9:00 am-10:00 am, Marriott Marquis Nob Hill CD  
- **Hands-On Lab: Oracle Application Framework Usability (S318745)**  
  3:00 pm-4:00 pm, Marriott Marquis Nob Hill CD
Related Sessions – Security

**Monday, September 20**

- Data Privacy and Protection in Oracle E-Business Suite (S317107)
  11:00 am-12:00 pm, Moscone West L2 Rm 2024

**Thursday, September 23**

- Service-Oriented Security: Simplifying Identity Management for Applications (S317270)
  10:30 am-11:30 am, Moscone West L3 Rm 3018
Related Sessions – Integration

Monday, September 20

• An Oracle E-Business Suite Integration Primer: Technologies and Use Cases (S318126)
  3:30 pm-4:30 pm, Moscone West L2 Rm 2024

Tuesday, September 21

• Hands-On Lab: Oracle E-Business Suite Integrated SOA Gateway: Web-Services-Based Integrations (S318747)
  12:30 pm-1:30 pm, Marriott Marquis Nob Hill CD
• Enabling Web Services with Oracle E-Business Suite Integrated SOA Gateway (S318127)
  5:00 pm-6:00 pm, Moscone West L2 Rm 2024
Related Sessions – Performance and Availability

**Tuesday, September 21**

- Tuning All Layers of the Oracle E-Business Suite Environment (S317108)
  12:30 pm-1:30 pm, Moscone West L2 Rm 2020
  3:30 pm-4:30 pm, Moscone West L2 Rm 2020
- Hands-On Lab: Diagnose and Identify Performance Issues with Oracle E-Business Suite (S318989)
  3:30 pm-4:30 pm, Marriott Marquis Nob Hill CD
- Deploying Oracle E-Business Suite on the Oracle Exadata: Tips/Best Practices (S317130)
  5:00 pm-6:00 pm, Moscone West L2 Rm 2020

**Wednesday, September 22**

- Hands-On Lab: Diagnose and Identify Performance Issues with Oracle E-Business Suite (S318989)
  10:00 am-11:00 am, Marriott Marquis Nob Hill CD

**Thursday, September 23**

- Oracle E-Business Suite Advanced Performance Topics: Oracle RAC, Compression (S317109)
  3:00 pm-4:00 pm, Moscone West L2 Rm 2020
Related Sessions – Lifecycle Management

Monday, September 20

• Hands-On Lab: Oracle Application Management Pack for Oracle E-Business Suite: Monitor/Clone (S318765)
  5:00 pm-6:00 pm, Marriott Marquis Nob Hill CD

Tuesday, September 21

• Hands-On Lab: Using Oracle Application Change Management Pack for Oracle E-Business Suite (S318766)
  11:00 am-12:00 pm, Marriott Marquis Nob Hill CD
• Latest on Oracle Application Change Management Pack for Oracle E-Business Suite (S318124)
  3:30 pm-4:30 pm, Moscone West L2 Rm 2024

Wednesday, September 22

• Hands-On Lab: Using Oracle Application Change Management Pack for Oracle E-Business Suite (S318766)
  4:45 pm-5:45 pm, Marriott Marquis Nob Hill CD

Thursday, September 23

• Reduce TCO with Oracle Application Management Pack for Oracle E-Business Suite (S318123)
  9:00 am-10:00 am, Moscone West L2 Rm 2024
• Oracle E-Business Suite Architectures: Oracle RAC, Clouds, Oracle VM, and More (S318120)
  12:00 pm-1:00 pm, Moscone West L2 Rm 2024
Related Sessions – DBA Techniques

**Tuesday, September 21**

- Oracle E-Business Suite DBA Techniques: Minimizing Maintenance Downtimes (S318134)
  2:00 pm-3:00 pm, Moscone West L2 Rm 2024

**Wednesday, September 22**

- Practices for Virtualizing and Migrating Oracle E-Business Suite to Linux (S316885)
  1:00 pm-2:00 pm, Moscone South Rm 305

**Thursday, September 23**

  1:30 pm-2:30 pm, Moscone West L2 Rm 2024
- Oracle E-Business Suite Applications Technology: Diagnostics and Troubleshooting (S318121)
  3:00 pm-4:00 pm, Moscone West L2 Rm 2024
Related Sessions – Internationalization

**Wednesday, September 22**

- **Oracle E-Business Suite Internationalization / Multilingual Support Best Practices (S318131)**
  4:45 pm-5:45 pm, Moscone West L2 Rm 2024
Related Sessions – Upgrading

Tuesday, September 21

  2:00 pm-3:00 pm, Moscone West L2 Rm 2020
- Planning Your Oracle E-Business Suite Upgrade from Release 11i to Release 12.1 (S318311)
  3:30 pm-4:30 pm, Moscone West L2 Rm 2018

Wednesday, September 22

- True Story of Upgrading from Oracle E-Business Suite 11i to Release 12.1 (S318313)
  11:30 am-12:30 pm, Moscone West L3 Rm 3002/3004
- Upgrading Your Customizations to Oracle E-Business Suite Release 12 (S318125)
  11:30 am-12:30 pm, Moscone West L2 Rm 2024
SOFTWARE. HARDWARE. COMPLETE.
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