Oracle ALM Strategy, Update and Roadmap

Jennifer Allen, Senior Manager, ALM Strategy, Oracle

Chuck Armbruster, CMRP, Corporate Reliability Engineering Manager, The J.M. Smucker Company

Sudharsan Krishnamurthy (Kris), Director, ALM Development, Oracle
Safe Harbor

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle’s products remains at the sole discretion of Oracle.
Program Agenda

- Product Update: Jennifer
- Oracle eAM SIG: Chuck
- Technology Updates: Kris
- Q&A: ALL
Oracle Enterprise Asset Management

eAM has become a mature product in a mature domain

• EAM IS 10 YEARS OLD
• WE ARE APPROACHING 2000 CUSTOMERS
• OUR FIRST TWO LIVE CUSTOMERS ARE STILL ACTIVE CAB MEMBERS
• OUR PARTNER COMMUNITY IS GROWING “PRODUCT” PARTNERS
• WE CONTINUE TO INVEST IN FUNCTIONALITY AND USABILITY IMPROVEMENTS
Oracle’s Commitment to eAM

- First Product Release in 2002
  - Development Partner – Alcoa
  - First live customer – TPC Group
  - Both have been members of customer advisory board since 2002
  - Both have added many more sites

- Release History
  - 2002 11.5.8 - 2009 R12.1.1
  - 2003 11.5.9 - 2009 R12.1.2
  - 2005 11.5.10 - 2010 R12.1.3
  - 2007 R 12 - 2012 R12.2
## Evolution of Oracle ALM

### 11i.10...
- Work Order Relationships
- iSupplier Portal to Address Outsourcing & 3rd Party Logistics
- Direct (one-off) Items on Maintenance Activity BOM & Work Order Requirements
- Ability to View Associated Work Orders in Service UIs
- Maintenance User Workbench
- Ability to Drill Down to Property Management
- Work Flow Driven Work Request: Flexible Work Order Association
- Complete iSetup Support for Easy Migration and Configuration of eAM
- Integrated Maintenance Intelligence

### Release 12
- Global Consolidated Asset Repository
- Enhanced Fixed Asset Integration
- Work Order Cost Capitalization
- Maintenance Budget Forecast
- Multiple Activity PM Schedules
- Asset Check In/Check Out with Safety and Operational Data
- Asset Operational Log
- Work order Approval Workflow
- User Defined Work Order Status
- Warranty Support
- Automated Material Availability Check
- Mobile Maintenance User Workbench
- Single Page Work Order
- Failure Analysis

### Release 12.1.1
- Asset Move Workbench
- Express Work Order
- Item Cross Reference Search
- Source Supply Sub-Inventory
- PM Scheduling Enhancements
- Microsoft Projects Integration
- Graphical Map of Asset Network Relationship
- Assets on a Map
- Change Department on Work Order Operation for Crew Scheduling
- Construction Units for Shutdown Planning
- Work Request Attachments
- Copy Asset Number to Requisition
- Approver Notes

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Oracle continues to invest heavily in ALM

**R12.1.2**
- Primavera Integration for Work Order Scheduling
  - Export Work Orders
  - Import Work Orders
- Key ATG Enhancements to Support eAM User
  - New EBS Home Page
  - Look ahead List of Values
  - In-Line Attachments
- WEB Services for eAM

**R12.1.3**
- Safety Management
  - Work Permits
  - Work Clearances
  - Workflow approvals
- ESRI Integration for Work Management
- MOC
  - eAM Integration
  - Sustainability Sensor Data Management
- Encumbrance Accounting for Work Order Purchases
- EAM Analytics
- WebADI for Mass Update (OAT)
- IPV Process Enhancements (OAT)
- Additional Hooks (OAT)

**R12.1.3+ * **
Spring Patches:
- Change Asset Number on Work Order
- Automatic Material Allocation
- Delete Unused Allocation and Material Requirement at Material Return
- Default Actual Completion Date on Work Order
- Avoiding Work Order Sequence Numbers Jumping Caused by Budget Forecast Run

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And the beat goes on!

**R12.1.3+ * **
Next Patches:
- Work Order Print XML Publisher templates
- Mass Update
- Label Change: “Next WO Only” and PM Query Change
- Primavera 8.2 Certification

**What’s Next**
*0-12 month planning cycle*
- Safety Management: Phase2
- PM Work Order Prefix
- Print Attachments (AutoVue Integration with OAF)
- Endeca for eAM
- iPad Solution for Maintenance Supervisor
- iPad Safari/Browser Certification (OAF/HTML)
- MOC – Technology upgrade to ODI and OBIEE 11g
- Enhanced MOC-eAM integration for asset performance
- Customer and field driven eAM & OAT enhancements*

**Future Directions**
*Post 12 month planning cycle*
- Support for Distributed EAM with Fusion ERP
- Shared Services Maintenance
- Enhanced Fleet Support
- Enhanced Linear Asset Management Support
- Enhanced Primavera Integration
- Support for Contingent Worker
- Print Attachments (Phase2 of AutoVue Integration)
- ADF Mobile Application
- Customer and field driven MOC enhancements
- Customer and field driven eAM & OAT enhancements

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- Customer and field driven MOC enhancements
- Customer and field driven eAM & OAT enhancements
Moving Customers up the Maturity Curve
From Fragmented Shop Floor to Integrated Value Chain

Performance

1. Marginal
   - Manual Processing
   - Limited Visibility

2. Stable
   - Integrated Maintenance Mgmt
   - Standardization, Foundational

3. Advanced
   - Lean Asset Mgmt
   - Strategic Improvements

4. Best Practice
   - Demand Driven Asset Mgmt
   - Enterprise Alignment

Manual Transactions
Work Order Mgmt, Cost Tracking
Preventive Maintenance / Device Integration
Optimization of Asset Strategy
Product Update

- Oracle EAM Analytics
- Endeca for eAM
- Usability Enhancements
- Roadmap
Oracle BI Applications Family

- Provide Enterprise View of the Business

BI Foundation
Common Enterprise Information Model

AND OTHER OPERATIONAL AND ANALYTIC SOURCES
Oracle BI Applications Family

- Provide Enterprise View of the Business

- Safety Management
  - Work Permits
  - Work Clearances
  - Workflow approvals
- ESRI Integration for Work Management
- MOC
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- Additional Hooks (OAT)
Oracle Enterprise Asset Management Analytics

Prepackaged Enterprise Asset Management Analytics

Maintenance Cost Summary

Work Order Summary

Inventory and Costing

Quality Analysis

Resource Analysis

Asset Genealogy

Role-Based Dashboard

VP Operations
- Asset 360 degree: Asset history since inception
- Maintenance Cost: Monitor maintenance cost along with asset performance

Maintenance Managers
- Schedule maintenance: Monitor schedule maintenance execution.
- Failure Analysis: Mean Time to Repair (MTTR), Mean Time Between Failure (MTBF) analysis.

Plant Manager
- Spares Inventory – Track spares inventory levels and availability
- Resource Analysis – Analyze the overall efficiency of the resources
Example of Business Questions Supported

What is the estimated and actual cost for my Top 10 Asset Groups?

How much is breakdown cost % of total maintenance cost?

What is the Cost Variance trend?

What is the breakdown cost ratio for last 12 months?
Role-Based Best Practices Provide Relevant and Actionable Insight for Everyone

Enterprise Asset Management Analytics – Key Objectives and Questions by Role

<table>
<thead>
<tr>
<th>Role</th>
<th>Enterprise wide visibility into Asset Utilization and Availability</th>
<th>Plant wide visibility and tracking of Assets</th>
<th>Monitoring and controlling Asset Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>VP of Manufacturing</td>
<td>• What does it cost to maintain &amp; operate my assets? • What is the expected life of my assets?</td>
<td>• Which asset strategies work to my advantage to drive uptime? • What are the preventive and unplanned maintenance costs and trends for this quarter?</td>
<td>• What are the Resources being used and what is their utilization and efficiency? • What are preventive maintenance schedules for this period?</td>
</tr>
<tr>
<td>Plant Manager</td>
<td></td>
<td></td>
<td>• What are the Resource bottlenecks in the current maintenance process?</td>
</tr>
<tr>
<td>Maintenance Manager</td>
<td>• What does it cost to maintain &amp; operate my assets? • What is the expected life of my assets?</td>
<td>• What are the bottlenecks in the current maintenance process?</td>
<td>• What are the Resource bottlenecks in the current maintenance process?</td>
</tr>
</tbody>
</table>
Business Function: Maintenance
Role: Maintenance Manager
Objectives:
• Minimize Maintenance Cost
Mobile Insight Across Organizations
eAM Empowered by Endeca

Modern Landing Page
Guided Navigation®
Google Like Type Ahead Search
Range Filters with histograms
Advanced Visualization
Tag Clouds
Cross Tab
Metric Bar with Highlights
Charts
Search Across Organizations
Search On Flexfields
Search Large Text & Attachments
Full 360 Degree Data View

What’s Next
0-12 month planning cycle
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Endeca Integration to eAM
Usability Enhancements for 12.1.3+

- Ability to Change Asset Number in an eAM Work Order (Doc ID 1458225.1)
- Component Pick Release concurrent program for orders material allocation (Doc ID 1457852.1)
- Ability to delete open material allocation and requirement from work order while performing return material to inventory (Doc ID 1457837.1)
- Provision to default actual completion date of Work Order to system date during work order completion (Doc ID 1457853.1)
- Avoiding work order sequence numbers jumping caused by Budget forecast run (Doc ID 1485525.1)

R12.1.3+ Spring Patches:
- Change Asset Number on Work Order
- Automatic Material Allocation
- Delete Unused Allocation and Material Requirement at Material Return
- Default Actual Completion Date on Work Order
- Avoiding Work Order Sequence Numbers Jumping Caused by Budget Forecast Run
Usability Enhancements for 12.1.3+ (R12.1.3+ *)

- Work Order Print XML Publisher Templates
- Mass Update
- Label Change: “Next WO Only” and PM Query Change
- Primavera 8.2 Certification

Next Patches:
- Work Order Print XML Publisher templates
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Roadmap

Our Priorities

- Customer Success
- Usability
- Targeted Development

What’s Next
0-12 month planning cycle

- Safety Management: Phase2
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Roadmap: Continued Releases & Innovation

- Ongoing Point Releases Easy to Uptake

<table>
<thead>
<tr>
<th>Released</th>
<th>Planned</th>
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<tbody>
<tr>
<td>Major Release</td>
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<tr>
<td>11.5.10</td>
<td>12.2</td>
</tr>
<tr>
<td>12</td>
<td>RUP1…</td>
</tr>
<tr>
<td>12.1</td>
<td>RUP2…</td>
</tr>
<tr>
<td>12.1.2</td>
<td>RUP3…</td>
</tr>
<tr>
<td>12.1.3</td>
<td>...</td>
</tr>
</tbody>
</table>

Minor Release

- Nov. 2004
- Jan. 2007
- May 2009
- Dec 2009
- Aug 2010
Community Knowledge

- Advisor Webcasts
- SAVE THE DATE → 2013 Summit
- SIG Info-Mercial
## Planned Advisor Webcasts

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Details</th>
<th>References</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 15, 2012</td>
<td><strong>GRC Preventive Controls Governor: It’s Not Just for eBS Financials</strong>, presented by Pam Freeman, Principal Sales Consultant.</td>
<td><strong>Document 1400172.1</strong></td>
<td>• Recording</td>
</tr>
<tr>
<td>April 19, 2012</td>
<td><strong>Sub-Ledger Accounting (SLA)</strong> for <strong>Oracle eAM</strong>, presented by Anurukumar Kalapar, Principal Product Manager.</td>
<td><strong>Document 1427683.1</strong></td>
<td>• Continue The Discussion</td>
</tr>
<tr>
<td>May 17, 2012</td>
<td>**Preventive Maintenance Scheduling in <strong>Oracle eAM</strong>, presented by Tom Sichko, Product Strategy Director.</td>
<td>Coming Soon.</td>
<td>• Register</td>
</tr>
<tr>
<td>June 21, 2012</td>
<td><strong>Benefits of Using Oracle Asset Tracking with Oracle eAM</strong>, presented by Amit Mondal, EBS Development Director, and Madhuri Shah, Senior Product Manager.</td>
<td>Coming Soon.</td>
<td>• Register</td>
</tr>
<tr>
<td>July 19, 2012</td>
<td><strong>Using Personalization in Oracle eAM</strong>, presented by Lokesh Verma, Product Management Director.</td>
<td></td>
<td>• Register</td>
</tr>
<tr>
<td>August 16, 2012</td>
<td><strong>Using Collection Plans in Oracle eAM</strong>, presented by Amit Mondal, EBS Development Director.</td>
<td></td>
<td>• Register</td>
</tr>
<tr>
<td>September 20, 2012</td>
<td><strong>Overview of Costing in Enterprise Asset Management</strong>, presented by Zar Ahmed, Principal Support Consultant.</td>
<td></td>
<td>• Register</td>
</tr>
<tr>
<td>October 18, 2012</td>
<td><strong>eAM Technical Tidbits</strong>, presented by Amit Mondal, EBS Development Director.</td>
<td></td>
<td>• Register</td>
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<tr>
<td>November 15, 2012</td>
<td>.</td>
<td></td>
<td>• Register</td>
</tr>
<tr>
<td>December 26, 2012</td>
<td>.</td>
<td></td>
<td>• Register</td>
</tr>
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**My Oracle Support Doc Id**: 1167439.1
Customer Newsletter

- Hot Topics, technical content, and technical updates
- Provided by Oracle Support teams

My Oracle Support Doc Id 354000.1

NEW Resolution Tools Are Available:
- Drone Service Roadmap in My Oracle Support
- Document Application Improves My Oracle Support Search Results
- Oracle OpenWorld Attendee: Meet a Support Star and Get Your Answer!
- Oracle E-Business Suite 12.1.3 Released
- September 2010 Oracle Value Chain Planning Tips / TAC - Supplier to Organizations
- Coming in October: Enterprise Asset Management and Cost Management Monthly Live Advisor Webcast
- Project Respective Closing Periods and Conditions
- Creating An Oracle Project Manufacturing (OPM) Production Batch From A Sales Order in R12.1
- Landscaping Cost Management Integration with OPM Financial Webcast: Recurring Now Available
- What Information Types Are Supported/Read by the Oracle Project Manufacturing (OPM) Preprocessor?
- Release of Remote Diagnostics Agent (RDA) version 4.20

Feature Article

NEW Resolution Tools Are Available!

Two new tools are available and are called Product Information Centers and Upgrade Advisors.

Product Information Centers (PICs) are support created and maintained knowledge repositories for customers, partners, and employees. The PIC is designed to help educate and provide critical information in one central location.

An Upgrade Advisor is a specially created dynamic document that is intended to guide you through an upgrade lifecycle using step by step instructions.
Oracle Value Chain Summit
Bringing People and Supply Chains Together

February 4–6, 2013
Hyatt Regency San Francisco

6 Distinct Pillars
180 Sessions in 17 Tracks
All in One Great Location

- Maintenance
- Manufacturing
- Procurement
- Product Lifecycle Management
- Value Chain Execution
- Value Chain Planning

aka, Our 7th ANNUAL MAINTENANCE SUMMIT!

For more information: http://www.oracle.com/goto/vcs
Partner Community – Field Advisory Board (FAB)

- CENTRIC
- CHAINSYS
- GLOBAL
- Deloitte
- impac
- esri
- Hitachi Consulting
- LORIENT CONSULTING
- ROLTA
- SIGNUM GROUP, LLC
- STR software
- EAM Master
- VIZIYA
- meridium
- VENTUREFORTH
- @hand
- CSC
- pwc
- dmsi
- zanett
eAM SIG Charter

The general purpose of the Enterprise Asset Management SIG is to be an active conduit for knowledge transfer, learning and support for current and prospective users of Oracle Enterprise Asset Management (eAM).
eAM SIG Leadership

President: Chuck Armbruster
Vice President: Daryl Palmer
Program Director: Scott Gorsuch
Meeting Coordinator: Maurice Trentel
Membership Director: Scott Livignale
OAUG Affiliation

Join OAUG and eAM SIG:

http://www.OAUG.org
Welcome to the Oracle Applications User Group community for Oracle Enterprise Asset Management. The Enterprise Asset Management Special Interest Group is a user based community aimed at knowledge transfer, learning and support for current and prospective users of Oracle Enterprise Asset Management (eAM). Our primary goal is to:

- Act as resource for members to pose questions, seek information and contact other members
- Act as a repository of current and past presentations given at eAM SIG meetings
- Act as a liaison between OAUG and Oracle personnel to foster timely flow of feedback, requests and information

Upcoming eAM SIG Meeting
<table>
<thead>
<tr>
<th>Oracle Affiliation</th>
<th>Source Name</th>
<th>Communication Method</th>
<th>Source URL</th>
<th>Membership Requirements</th>
<th>Cadence</th>
<th>Point of Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enterprise Asset Management Special Interest Group (eAM SIG)</td>
<td>eAM SIG</td>
<td>eAM SIG Site, Face-to-face, Webcasts</td>
<td>eamsig.org</td>
<td>Interest in Oracle eAM</td>
<td>Semiannually-at OOW and COLLABORATE; other</td>
<td><a href="mailto:judy.hamlin@oracle.com">judy.hamlin@oracle.com</a> 403-775-2829</td>
</tr>
<tr>
<td>MRO Supply Chain Working Group</td>
<td>Face-to-face</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Collaborate</td>
<td></td>
<td></td>
<td>collaborate.oaug.org</td>
<td>OAUG member (in good standing)</td>
<td>Annually, in spring</td>
<td><a href="mailto:jennifer.allen@oracle.com">jennifer.allen@oracle.com</a> 859-548-4809</td>
</tr>
<tr>
<td>Oracle OpenWorld (OOW)</td>
<td></td>
<td></td>
<td>oracle.com/openworld/</td>
<td>Interest in Oracle eAM</td>
<td>Annually, in fall</td>
<td><a href="mailto:jennifer.allen@oracle.com">jennifer.allen@oracle.com</a> 859-548-4809</td>
</tr>
<tr>
<td>Maintenance Summit</td>
<td>eAM Summit</td>
<td>e-mail, website</td>
<td>oraclemaintenancesummit.com</td>
<td>Maintenance &amp; Reliability Community</td>
<td>Annually</td>
<td><a href="mailto:jennifer.allen@oracle.com">jennifer.allen@oracle.com</a> 859-548-4809</td>
</tr>
<tr>
<td>Enterprise Asset Management (EAM) Advisor Webcast Archive</td>
<td>Recorded eAM Webcasts</td>
<td></td>
<td>support.oracle.com/CSP</td>
<td>Must be an Oracle customer; CSI # required</td>
<td>Monthly</td>
<td><a href="mailto:bonnie.adam@oracle.com">bonnie.adam@oracle.com</a> 859-548-4809</td>
</tr>
</tbody>
</table>
Oracle ALM Technology Updates

Sudharsan Krishnamurthy (Kris), Director, ALM Development, Oracle
ALM Technology Updates
Program Agenda

- Endeca
- eAM Mobile Updates
- Release 12.2 Technology Updates
New Revolution in E-Business Suite Stack

Enhanced E-Business Suite Apps
- New Modern UI Experience
- Productivity Improvement for Everyone
- Fully Integrated within the Transactional System
- Configurable, Extensible

Endeca In-Memory Discovery
- Hybrid search-analytical Engine
- Search, navigation, and analytics on diverse, changing information
- Interactive response at scale

E-Business Suite Database
- No change to your database
- Support for all data types, Flexfields*, FND Attachments etc* (*depends on implementation)
EBS Endeca Architecture Overview

- **EBS Database**
- **ETL Views**
- **Integrator Server**
- **Oracle Middleware**
- **Community Pages**
- **Studio**
EBS Endeca for Enterprise Asset Management

• Increase Asset Utilization
  • Discover assets with frequent failures and drill into asset details to find the root cause
  • Reduce asset failures by addressing root cause e.g. optimize the Preventive Maintenance schedules

• Reduce Maintenance Cost
  • Identify resource overloads and optimize resource assignments
  • Improve schedule compliance by addressing resource bottlenecks
  • Improve ‘Maintain Vs Replace’ decision making with better insight of Asset costs

• Improve Supervisor Productivity
  • Shared Maintenance - Visibility of Assets, Work Orders, and Parts across Organizations
  • Improve work prioritization by better insight into work queues
eAM Application With New UI Experience
eAM Application With New UI Experience
Deployment Scenario

Endeca UI Embedded within

Search Query → Middle Tier Server → Results

Search Query → Endeca Server

Transactions → Database Server

ETL (Initial Load/Full Refresh, Scheduled Incremental Refresh)
Required Application Releases

• Oracle E-Business Suite R12.1.3
• Endeca for E-Business Suite Patch*
• Oracle Endeca Information Discovery 2.3

* Under Development, Refer Safe Harbor Statement
Program Agenda

- Endeca
- eAM Mobile Updates
- Release 12.2 Technology Updates
eAM Mobile Applications

Roadmap

- New Tablet Apps for the following roles:
  - Maintenance Supervisor
  - Maintenance Technician
- Certify all existing OA Framework Applications on iPad
eAM Mobile App

Objective

- Make sure use cases are mobile appropriate
- The best entry is no entry!
  - Decrease the number of pages a user must visit to complete their work
- Increase productivity by extending critical functionalities of eAM
  - Give users the information they need, when / if they need it
- Fully integrate technology
  - GPS, camera, voice, etc
Maintenance Supervisor Use case

- View Work requests reported within their department by users
- Create work order based on reported problem
- Assign resource to Work Order
- Report problem against problematic asset
Maintenance Supervisor Use case

Landing page

Work Request List
Maintenance Supervisor Use case

Select Work Request and Create WO

Fill out work order Details and Save
Maintenance Supervisor Use case

View Work Order and Assign Resource

Select Resource and Assign to WO

Work Order Details
- Work Order: WO1000
- Asset Number: FL1010
- Description: Work Order Desc: Fork Lift 1010
- Status: Released
- Start Date: Apr-01-2012 01:00:00
- End Date: Apr-30-2012 01:00:00

Operation Requirements
- Get new battery from charger
  - Apr-01-12 12:00 to Apr-01-12 15:00
  - W-Maint
  - Required - 3 Hrs
- Install new battery
  - Apr-02-12 08:00 to Apr-02-12 13:00
  - W-Maint
  - Required - 5 Hrs
- Change Battery

Material Requirements
- Get new battery from charger
  - FLBattery - Fork Lift Batteries
  - Stocked
  - Required - 2 units
  - Allocated - 1 units
- Install new battery
  - Apr-02-12 08:00
  - Stocked
  - Required - 1 unit
  - Allocated - 1 unit

Resource Assignment
- Bob Warner - Current Assignment
  - FL1010 - Fork Lift 5 series
  - April-02-12 12:00 to April-02-12 17:00
  - WO4444 - Fixing battery compartment
  - FL1090 - Fork Lifts 10X
  - Depart-001
  - WO5555 - Install radiator hose
  - RD1030 - Radiator Series 2
Maintenance Supervisor Use case

Report Problem: Create Work Request by Scanning Asset
eAM Mobile Applications

Roadmap

▪ New Tablet Apps for the following roles:
  – Maintenance Supervisor
  – Maintenance Technician

▪ Certify all existing OA Framework Applications on iPad
eAM Self Service Application on iPad
eAM Self Service Application on iPad
eAM Self Service Application on iPad
Program Agenda

- Endeca
- eAM Mobile Updates
- Release 12.2 Technology Updates
E-Business Suite Release 12.2

- **Latest middleware:** Fusion Middleware 11g
  - WebLogic Server to replace OC4J

- **Latest database:** Oracle 11gR2 11.2
  - Online Patching via Edition-Based Redefinition
  - Improved performance via database result caching
E-Business Suite Online Patching

- Leverages 11gR2 “Edition-Based Redefinition” to have multiple editions of the EBS code in the database
- Patches can be applied while the production system is fully operational
- Only a short downtime is required to complete patching process
- The amount of downtime required by any patch will be more predictable
**E-Business Suite Patching Cycle**

- **Prepare**
  - Synchronizes Patch Edition and Run Edition on the file system
  - Create a new Patch Edition in the database

- **Apply Patches**
  - Execute patch drivers to update Patch Edition
  - Multiple patches can be applied, including **customizations**

- **Finalize**
  - Compile invalid objects
  - Generate derived objects

- **Cutover**
  - Cutover to the Patch Edition of the file system
  - Cutover to the Patch Edition of the database
  - Restart middle-tier services

- **Cleanup**
  - Cleanup old editions to recover space

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- **Application is Online**
  - User sessions are connected to the **Run Edition**
  - Patching tools are connected to the **Patch Edition**

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- **Application is briefly off-line**

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- **Application is Online**
  - User Sessions are connected to the newly patched edition
Maximize Your OpenWorld Experience
Bala Subramanian, Director, Product Management will provide an overview of MRO Planning for Asset Intensive Industries.
Join Us TONIGHT!

Maintenance Reception

- **When:** Monday October 1, 2012
- **Time:** 6:00pm - 8:30pm
- **Where:** Restaurant LuLu’s 816 Folsom St. SF
- **What:** A fun time after your sessions to mingle with our partners and friends of the Oracle ALM community.
Optimizing Oracle Enterprise Asset Management: Ten Things You Didn’t Know You Could Do - CON8904

Tuesday, October 2, 5:00 – 6:00
Moscone West 2024

- Learn about eAM features
- Hear customer case studies

- Raj Lalchandani, Stanford University,
- Joseph Ashun, Barrick Gold
- Tom Sichko, Oracle
- Lokesh Verma, Oracle
Hands-on-lab to experience Endeca advanced search capabilities of Oracle Enterprise Asset Management (eAM) data including Work Requests, Work Orders, Assets, and Material.

This session will demonstrate how to quickly search and explore the data to present the user with information that will transform Oracle eAM into a DMS (Discovery Maintenance System).
SCM at Oracle OpenWorld

Supply Chain Reception

- **When:** Tuesday Oct 2, 2012
- **Time:** 6 – 8 pm
- **Where:** ROE Lounge
  651 Howard St. SF
- **What:** Casual and upbeat atmosphere to mix and mingle with friends and colleagues after a full day of sessions

Our Sponsors:

- CSC
- LOFTWARE
- MOTOROLA SOLUTIONS
- NexInfo
- Supply Chain Fusion
Meet the Experts: Supply Chain Management and Asset Lifecycle Management - MTE9646

Wednesday, October 3, 11:45 – 12:45
Moscone West - Apps/CRM Lounge

- Jennifer Allen, Senior Manager, ALM Strategy, Oracle
- Tom Sichko, Product Strategy Director, ALM Strategy, Oracle
- Kris Sudharsan Krishnamurthy, Director, ALM Development
- Lokesh Verma, Director, Logistics & ALM Product Management
- Stephen Slade, Senior Director, Applications Marketing, Oracle
Extreme Asset Management: From Facebook to Nuclear Power - CON8754

Wednesday, October 3, 3:30 – 4:30
Moscone West 2014

- Learn about eAM features
- Hear customer case studies

- Facebook, Daniel Soosai
- NEK, Franc Skaler, CIO
- Simon Jurecic, CEO, OSIR
- Madhuri Shah, Oracle
- Tom Sichko, Oracle
Achieving Operational Effectiveness in Energy and Resources Sector - CON9534

Wednesday, October 3, 5:00 – 6:00
Palace Hotel, Telegraph

- Learn about eAM features
- Hear customer case studies

Daryl Palmer, Senior eAM Technical Analyst, Barrick Gold Corporation
Logan Anjaneyulu, Director Turnaround and Project Controls, Valero Energy
Greg Colvin
Strategies for Optimizing Manufacturing and Maintenance in a Global Economy - CON8748

Wednesday, October 3, 5:00 – 6:00
Moscone West, Level 2, Room 2022

- Learn about eAM and Manufacturing features
- Hear customer case studies

Vilas B Kalyankar, CEO, Elecon Engineering
Fernando Esguerra, IT Manager, Programming & Development, Wah Chang
Jennifer Allen, Oracle
Karen Theel, Oracle
Making the Business Case for an Oracle E-Business Suite Supply Chain Management Upgrade - CON8753

Thursday, October 4, 11:15 – 12:15
Moscone West, Level 2, Room 2001

- Learn about the upgrade process at Ferring Pharmaceuticals
- Hear customer case studies

Frederic Quint – Global System Responsible Oracle eBS, Ferring Pharmaceuticals
Stephen Slade, Oracle
Karen Theel, Oracle
MRO Supply Chain Work Group Meeting

Thursday, October 4, 5:00 – 7:00
Oracle Office Sansome Street

- Contact Judy Hamlin
- By invitation only – please contact Judy.Hamlin@Oracle.com
Questions