

Oracle E-Business Suite Release 11/ and Release 12 A Study in Contrasts

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February, 2008





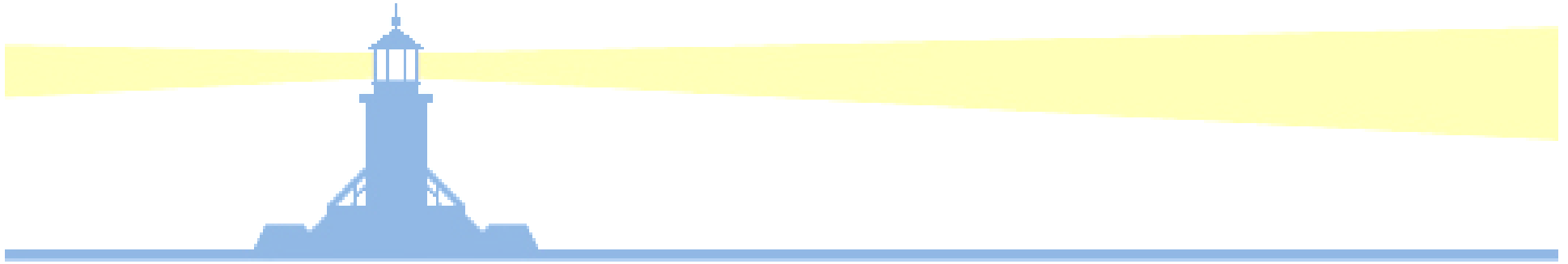
Audience

- Functional/Technical
- PeopleSoft, JD Edwards, Retek, Siebel, Hyperion
- Oracle E-Business Suite
 - Release 10.7
 - Release 11.0.3
 - Release 11*i*
 - Release 12
 - Application Technology Group Rollup
 - RDBMS Version
 - Platform
 - Storage

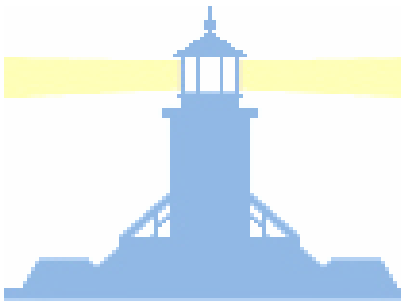


Agenda

- Concepts
- Patching
- Performance
- Next Steps
- More Information



Concepts



Release 11*i*/ 12 Terminology

- Release 11*i* is 11.5.x or 11*i*.x
 - 11.5.1 ... 11.5.2 11.5.10
- Release 12 is 12.0.x
 - 12.0.3 (October 16)
- Point Releases
 - Applies to all products in all suites (Media Releases, Maintenance Pack, Consolidated Updates and Release Update Packs – MP*/CU/RUP)
 - * MP is complete release



Release 11// 12 Basics to Remember

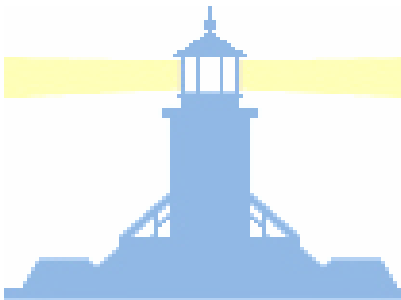
- Release 11//12 are not static releases
- Release 11//12 install everything regardless of licensing and de-normalizing the data in the database for reporting performance
- Release 11//12 contain constantly evolving technology components
- Release 11//12 point upgrades introduce significant changes to functionality and technology
- Release 11//12 have significant interdependencies of Critical Pseudo Products: AD, FND, AK, HZ (TCA), OWF, TXK, ADX, SHT, ATG, AU, FWK, OAM, UMX





What is Release 11*i*? Release 12?

- Release 11*i* (November 2004)
 - The biggest, most complex Oracle Applications release ever!
 - Ten* CD/DVD major releases containing:
 - Major changes to the tools and technology stack
 - Bug fixes
 - NEW and CHANGED functionality!
 - 11.5.9/11.5.10 – CUs introduced
- Release 12 (January 2007)
 - Even Bigger! 18 more modules
 - 60% Java – even more than Release 11*i*
 - Fusion Middleware
 - 10gR2 database
 - Third Release Update Pack (October 2007)



What is Release 11*i*?

What is Release 12?

- Release 11*i*
 - Completely new architecture, tools and technology – true three-tier
 - Internet Computing Architecture (ICA)
 - Technology Stack – Forms, Java, Apache(html)
 - Oracle8*i*/Oracle9*i*/10*g* – CBO, Partitioning
 - Multiple Application Server Components
 - Forms-Based: ERP, Back Office
 - HTML/JAVA-Based: Self Service, Workflow, “*i*” Products
 - Business Intelligence: Discoverer 3*i*/4*i*/10*g*, Reports, XML (BI) Publisher
- Release 12
 - More architecture, tools and technology changes
 - Fusion Middleware
 - More Application Server Components changes, especially BI

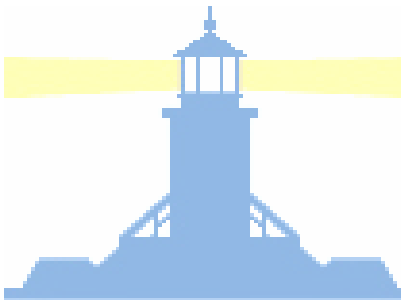




Release 11*i*/12 Concepts

- All or Nothing: Oracle Applications Software and Database – No sharing of Software/Objects
- Multiple Component Requirements: Database Software (3), Forms, Reports, Java, JDBC, Apache, Self-Service (OA) Framework, Workflow, XML Gateway
- Hybrid Application: OLTP/Batch/Web Coexist and each is separate database distribution





Release 11i/12 Products

- Increased Modules, Functionality, and Features
 - Release 10.7 40 products
 - Release 11.0.x 50 products
 - :
 - Release 11.5.5 161 products
 - Release 11.5.6 175 products
 - Release 11.5.7 179 products
 - Release 11.5.8 191 products
 - Release 11.5.9 197 products
 - Release 11.5.10 209 products
 - Release 12 220 products





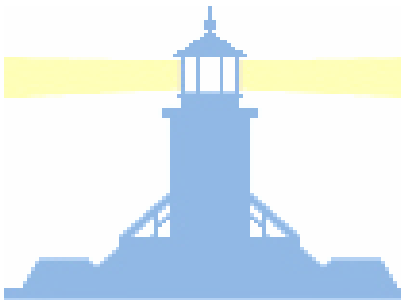
Release 11 / Bug Fixes

- More stable functionality (technical and applications) continuously appearing with each major patch release
 - 11.5.5/6 – ~ 20,000 bug fixes
 - 11.5.7 – ~ 40,000 bug fixes
 - 11.5.8 – > 60,000 bug fixes
 - 11.5.9 – > 100,000 bug fixes
 - 11.5.10 – ~ 180,000 bug fixes
 - Initially released on Oracle9i ... now 10gR2 certified
 - ATG Introduced
 - Workflow changed ... again
 - Rapid cloning changed ... again
 - AD enhancements ... again
 - New Java framework – 5.10 ... again
 - JInitiator 1.3.1 – latest release September 2007 – 1.3.1.29



Note: Metrics from Vision Environments





Release 12 Bug Fixes

- More stable functionality (technical and applications) continuously improving with each major RUP (Release Update Pack).
 - 12.0 – ~ 63602 bug fixes
 - 12.0.1 – ~ 827 bug fixes
 - 12.0.2 – ~ 4163 bug fixes
 - 12.0.3 – ~ 7569 bug fixes
- Initially released on Oracle 10gR2 ... 11g certification expected 2008
- JRE 1.5
- RUPs in Release 12 are like CUs were for Release 11*i*, only better



Note: Metrics from Vision Environments





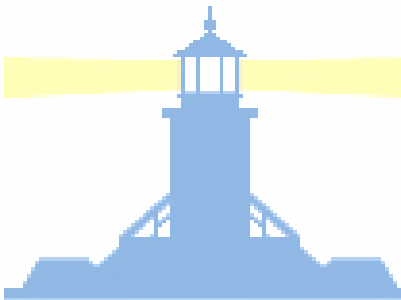
Release 11/Objects

- “Stub” applications, performance improvements, additional functionality continuously appearing with each major patch release
 - 10.7 – ~ 25,000 objects
 - 11.0 – ~ 30,000 objects
 - 11.5.5/6 – ~ 200,000 objects
 - 11.5.7 – ~ 240,000 objects
 - 11.5.8 – ~ 280,000 objects
 - 11.5.9 – ~ 310,000 objects
 - Fresh* 11.5.9 – ~ 200,000 objects
 - 11.5.10 – ~ 270,000 objects



Release 12 Objects

- “Stub” applications, performance improvements, additional functionality continuously appearing with each major patch release
 - 12.0 – ~ 360,512 objects
 - 12.0.1 – ~ 368,368 objects
 - 12.0.2 – ~ 361,748 objects
 - 12.0.3 – ~ 363,764 objects



Release 11i Architecture

11.5.10.0

- Client
 - Oracle JInitiator 1.3.1.18 on Client
- Middle Tier
 - Apache Web Server 1.3.19 (HTML, JSP, JServ)
 - JRE (Java Runtime Environment) 1.4
 - JDK (Java Development Kit) 1.4
 - Oracle Applications Java Framework 5.10
 - Oracle Forms/Reports 6i (6.0.8.24 – Patch 15)
 - Workflow 2.6.3 (OWF.H)
- Database Tier
 - Oracle 9i Enterprise Edition 9.2.0.5
 - Other Oracle Home Software Directories – App 8.0.6.3, iAS 8.1.7 = 9iAS 1.0.2.2.2 (Release 1)
 - Oracle Portal 3.0.9.8.4
 - Discoverer 4i (4.1.48) – 10/31/06






Release 11*i* Architecture

Latest 11.5.10.2

- Client
 - Oracle JInitiator 1.3.1.29 or Sun JRE 1.5.0_12 Plug-in on Client
- Middle Tier
 - Apache Web Server 1.3.19 (HTML, JSP, JServ)
 - JRE (Java Runtime Environment) 1.4
 - JDK (Java Development Kit) 1.4
 - Oracle Applications Java Framework 5.10
 - Oracle Forms/Reports 6*i* (6.0.8.27 – Patch 18)
 - Workflow 2.6.3 (OWF.H)
- Database Tier
 - Oracle 9*i* Enterprise Edition 9.2.0.8 or 64-bit 10*g*R2
 - Other Oracle Home Software Directories – App 8.0.6.3, *i*AS 8.1.7 = 9*i*AS 1.0.2.2.2 (Release 1)





Release 12 Architecture

12.0.0

- Client
 - Sun's JRE 1.5 on Client
- Middle Tier
 - Apache Web Server 10.1.3.0.0 (HTML, JSP, OC4J)
 - JRE (Java Runtime Environment) 1.5
 - JDK (Java Development Kit) 1.5
 - Oracle Applications Java Framework 5.10
 - Oracle Forms/Reports 10g (10.1.2.2)
 - Workflow 2.6.3 (OWF.H)
- Database Tier
 - Oracle 10gR2 Enterprise Edition
 - Other Oracle Home Software Directories – App 10.1.2, Web 10.1.3

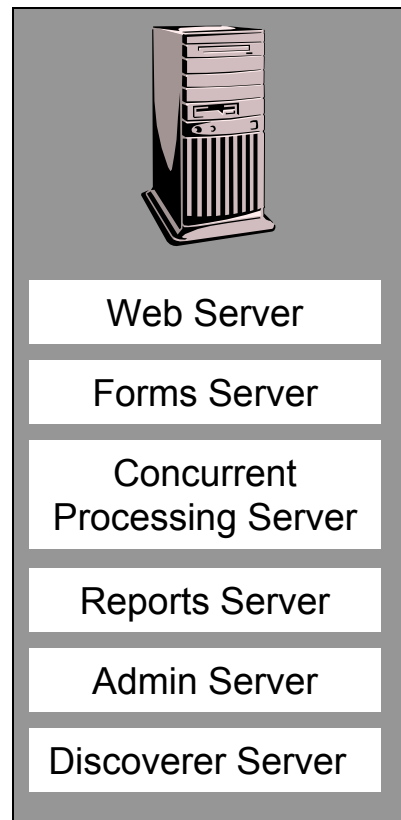


Release 11i Architecture

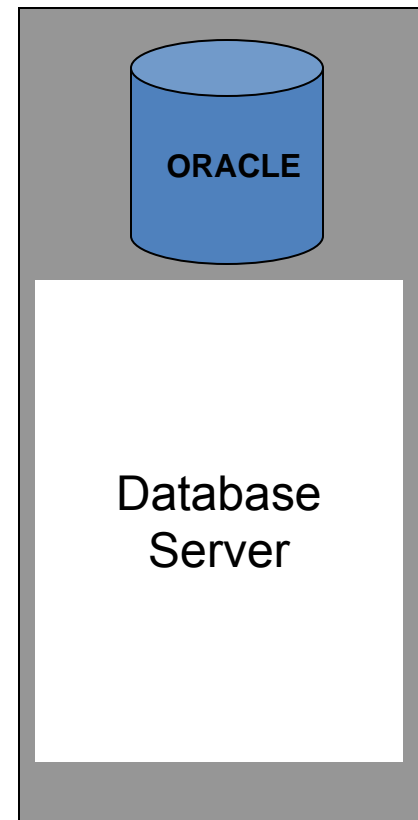
Desktop Tier

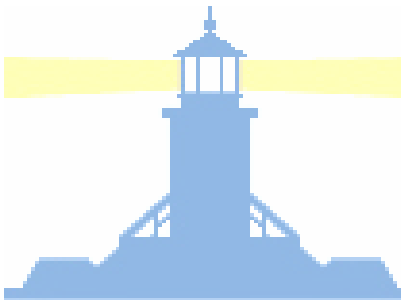


Application Tier



Database Tier





Release 12 Architecture



Desktop Tier

Sun J2SE java plug-in

Internet Explorer

Firefox
Netscape



Application
Tier

Web Services => 10.1.3

Forms Services => 10.1.2

Concurrent Processing Server

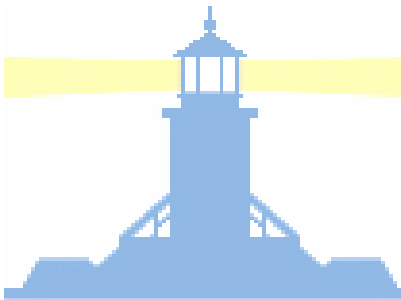
Admin Server



Database
Tier

Oracle RDBMS 10gR2

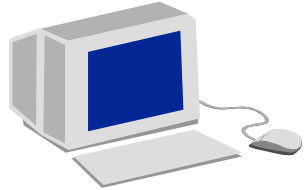




Release 11i Architecture – Components

Release 11.5.10.2 DVD Release

Client Tier



JInitiator

Web HTTP Servers

Application Technology Stack

Middle Tier

Apache

Admin Server

Concurrent Processing Server

Discoverer Server*

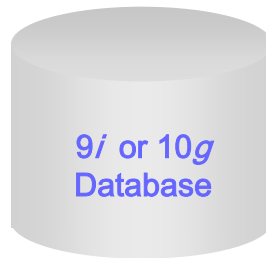
Forms Server

Reports Server *

*optional
9i/AS ORACLE_HOME
(1.0.2.2.2 – 8.1.7.4)

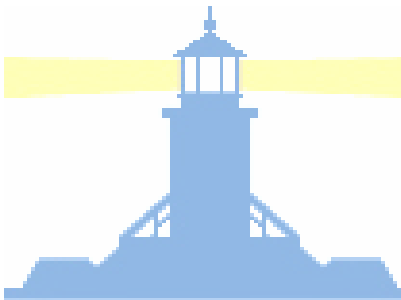
8.0.6.3 ORACLE_HOME

Database Tier



9.2.0.8/10.2.0.3 ORACLE_HOME

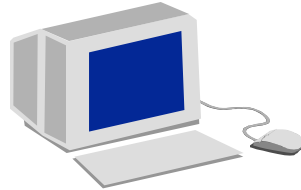




Release 12 Architecture – Components

Release 12 DVD Release

Client Tier



JRE 1.5

Web HTTP Servers

Middle Tier

Apache

Discoverer Server*

OCJ4 Container

Application Technology Stack

Admin Server

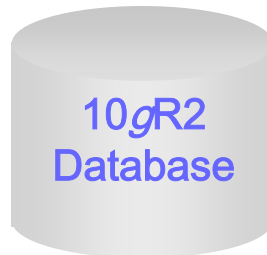
Concurrent Processing Server

Forms Server

*optional
10gAS ORACLE_HOME
(10.1.3)

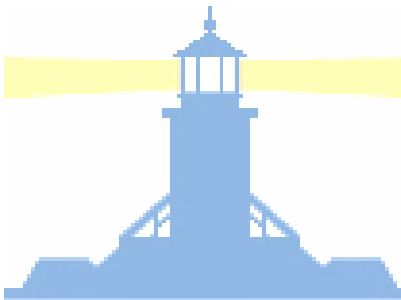
10.1.2 ORACLE_HOME

Database Tier



10.2.0.2 ORACLE_HOME





Release 11#12

Recommended Architecture

- Five Nodes – MetaLink 285267.1
 - Database *
 - Administration
 - Concurrent Managers
 - Forms
 - Web
- Recommendations for Ease of Support and Maintenance
 - Single User
 - Single Logical Disk Mountpoint
 - Shared Application File System > Single Tier
 - Oracle Applications Tablespace Model (OATM)

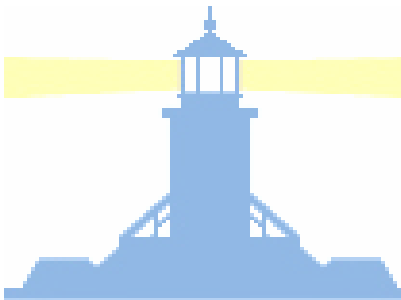




Release 11.5.10.2 – Applications Interdependencies – Oct 2007

- Release 11.5.10.2 – 8 out of 22 Family Packs Out of Date (HR, BIS, FIN, PROJ, SCM)
- Consolidated Update #1 – Superseded
- Consolidated Update #2 – Included
- Consolidated Update #3 – CANCELLED
- 11.5.10.2/9.2.0.8 Certified
- 10gR2 Certified Fusion Applications Jump-Off Point
- Applications Unlimited and Lifetime Support Eligible





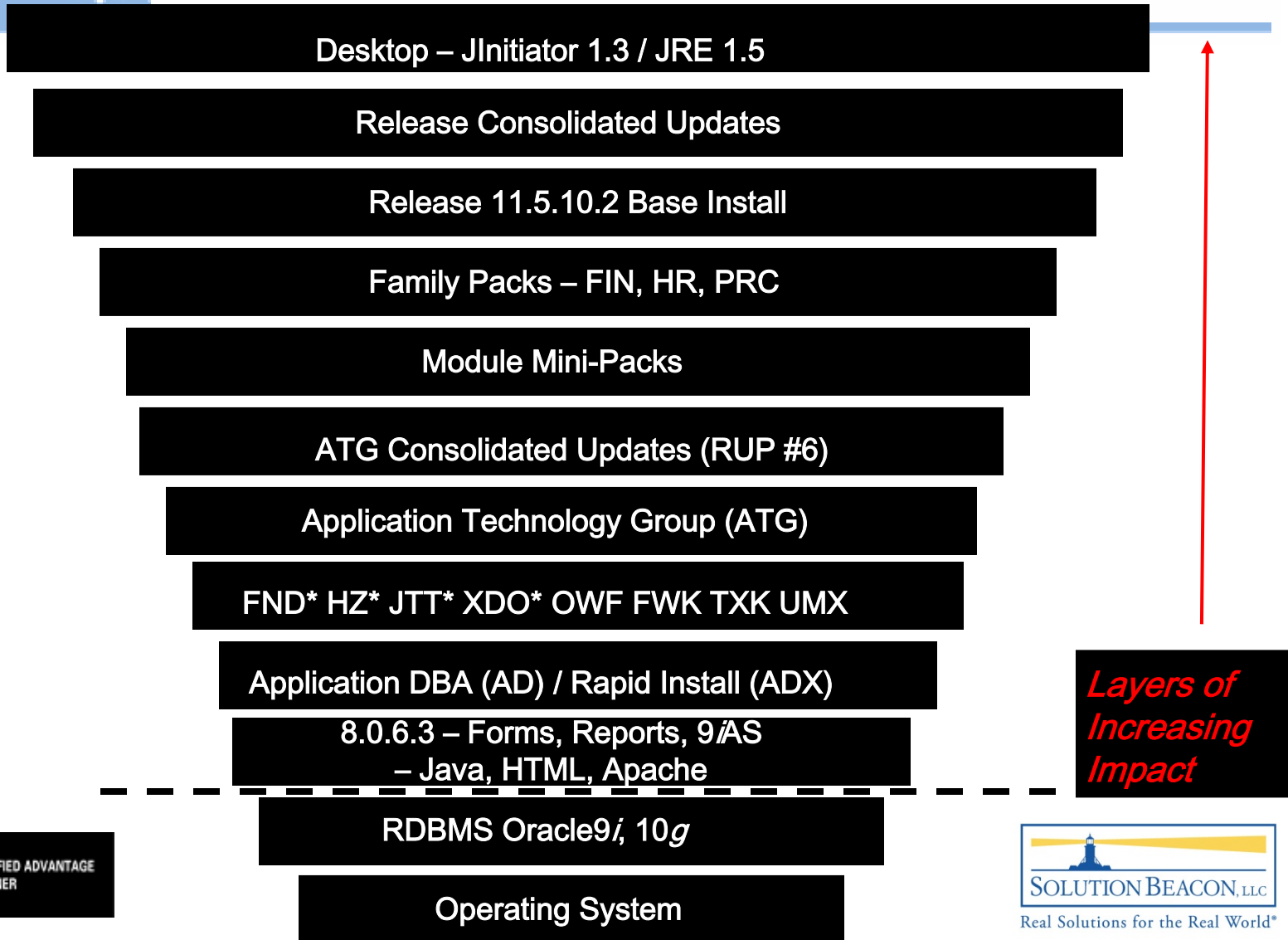
Release 12 – Applications Interdependencies – Oct 2007

- Release 12.0.3 – 18 Family Packs
 - 18 new modules including E-Business Tax
- Release Update Pack #1 – Released April 17
- Release Update Pack #2 – Released July 18
- Release Update Pack #3 – Released October 16
- Release Update Pack #4 – Pending (January 15)
- 10gR2 Certified (11g Pending)
- Fusion Applications Jump-Off Point
- Applications Unlimited and Lifetime Support Eligible



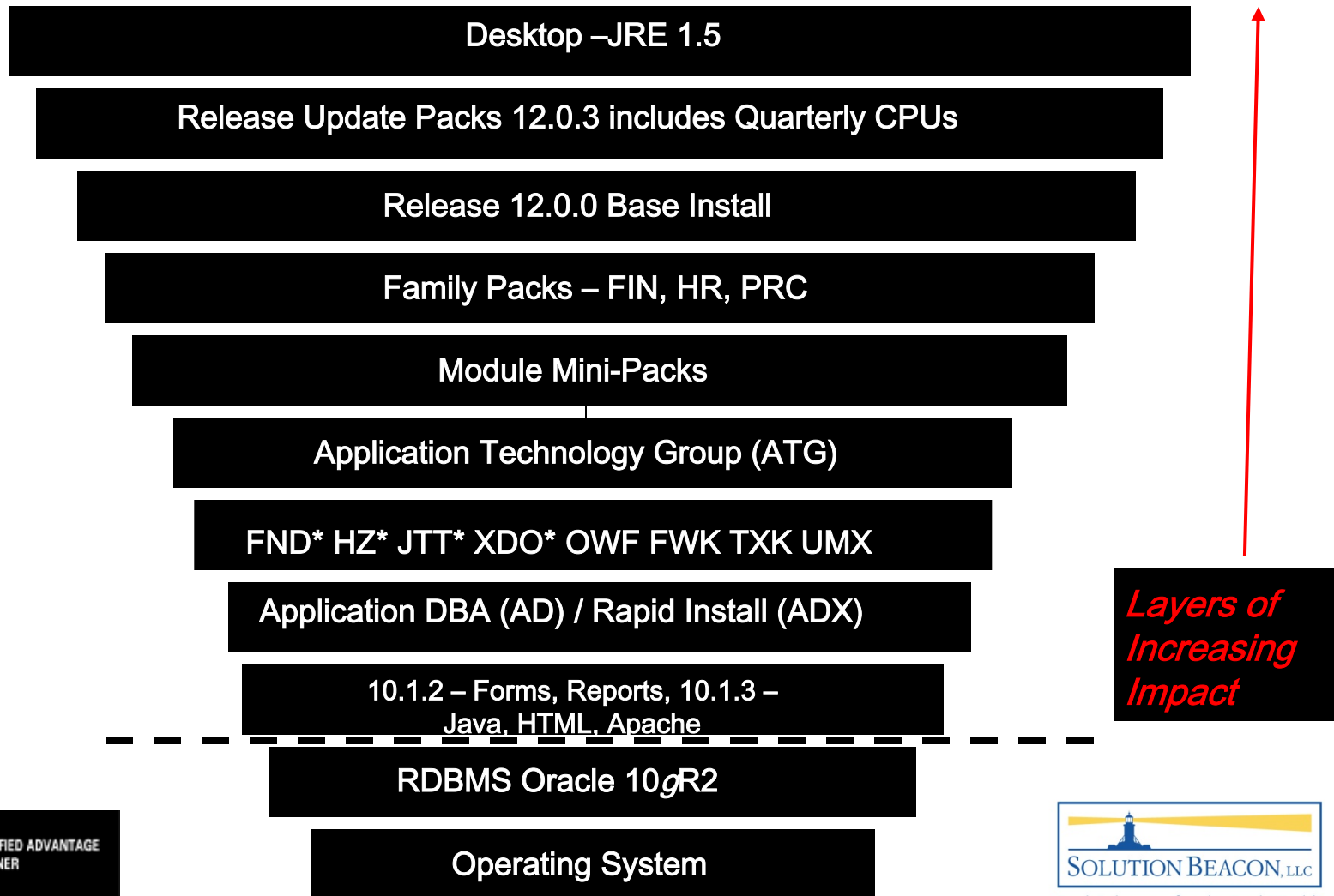


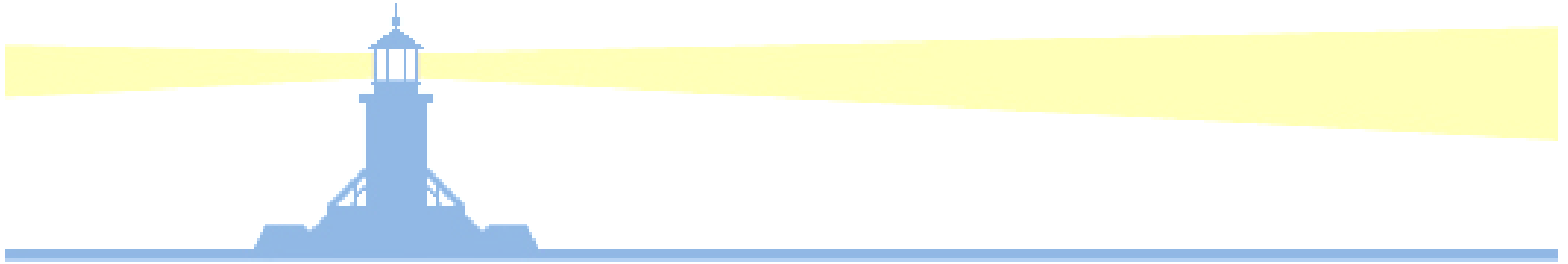
11.5.10.2 – Applications Interdependencies – October 2007






Release 12 – Applications Interdependencies – October 2007





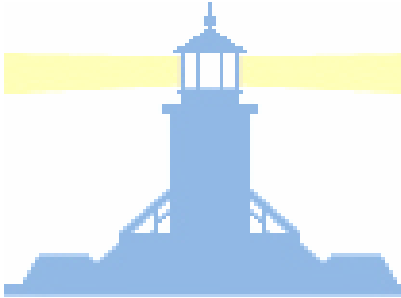
Patching





Release 11/ Patch Definitions

- **Media Pack (50+ CDs, 10-15 DVDs)**
 - 11.5.10.0 – November 2004, 11.5.10.2 – July 2005
 - Entire Applications Release Including Technology
 - Desktop Components
 - Documentation
 - Latest Maintenance Pack Included
- **Maintenance Pack (AU – 11.5.10)**
 - Entire Code Set Release for All Application Modules
 - No Technology Patches or Components Included
 - Lots of Pre/Post Tasks, VERY Long-Running
 - Consolidated Update Patches – 11.5.9 and 11.5.10
- **Family Pack (HR_PF.K) – Currently 22**
 - All Product Modules Mini-Packs for the Specific Family
 - Lots of Pre/Post Tasks, VERY Long-Running
- **Product Mini-Pack (GL.H)**
 - Entire Patch Set for Specific Application Modules
 - Functionality Changes AND Bug Fixes
- **One-Off Bug Patch (High Priority)**
 - Fixes Specific Issue, No Regression Testing



Release 12 Patch Definitions

- Media Pack
- Patch definitions are the same as Release 11/
except:
 - Release Update Pack (RUP) is not the same as R11/
Release Update Patch (also called a RUP) nor R11/
Consolidated Update (CU)
 - R12 RUPs are quarterly, include latest CPU patches for
the applications, but not for database, app servers and
tools technology, and do not require you to apply prior
RUPs (MetaLink Doc. ID 433461.1)



Patchsets.sh Comparison Utility

Patchset Comparison Utility Found on Oracle's FTP Site:

ftp://ftp.oracle.com/support/outgoing/PATCHSET_COMPARE_TOOL/patchsets.sh

- Updated Nightly By Oracle
- Can Be Used For 10.7, 11.0.x, 11.5.x and Release 12
- Displays Currently Available Patchsets
- Reads the applptch.txt File or the Database
- Produces Reports on Differences



OAM Patch Advisor / Patch Wizard

- Introduced in OAM.G Mini-Pack
- MetaLink Document 226826.1
- Uses InfoBundle11i.zip / Patch Information Bundle
- Release 11.5.9 – Patch Advisor
- Release 11.5.10 – Patch Wizard
- Release 12 – Patch Wizard



InfoBundle11/.zip / Patch Information Bundle

- Updated Nightly by Oracle's ARU System (Automated Release Update)
- Updates Patch Snapshot Repository
- Recommended Patch List
- Includes Patch Prerequisites
- MetaLink Document 233039.1
- For Release 11i – InfoBundle11/.zip
- For Release 12 – Patch Information Bundle



Patch Application Methods

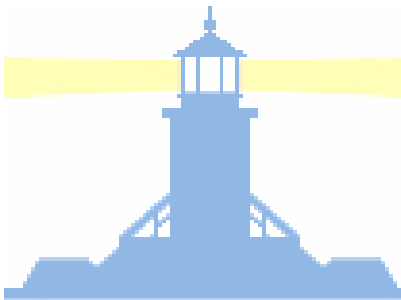
- Manual (Interactive)
- Automated (Non-interactive)
- Merge Patch Utility (Automated)
- OAM (Oracle Applications Manager) *
- Commercial

* Does not apply patches



Patch Management/Tracking

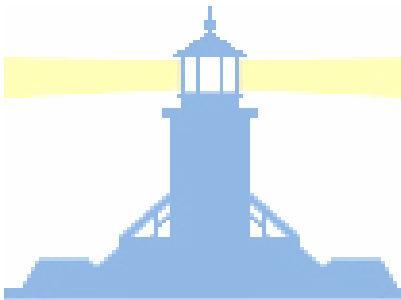
- Manual (applptch.txt)
- Manual (spreadsheet)
- Manual (patchsets.sh)
- Database (AD patch – AD.E)
- Commercial



Oracle Patch Documentation

- Release 11*i*
 - Maintenance Procedures (B19299-01)
 - Maintenance Utilities (B19300-01)
- Release 12
 - Maintenance Procedures (B31569-02)
 - Maintenance Utilities (B31568-02)
 - Patching Procedures (B31567-03) (Updated Oct 2007)
- Steven Chan's Blog
 - <http://blogs.oracle.com/schan>





Minimum Patching – Security Patches

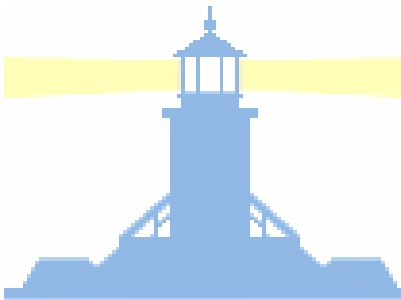
- Security Docs
 - (189367.1, 277535.1, 287176.1, 217368.1)
- Quarterly Critical Patch Update (CPU)
 - Significant Impact – Database, Tools and Apps
 - Plan as Part of Release/Change Mgmt
 - MetaLink Doc. ID: 265987.1
 - www.integrigy.com – Patch Impact Analysis
- Applications codeset \$APPL_TOP (**not** cumulative!)
- Web Tier \$ORACLE_HOME (cumulative)
- Application Tier \$ORACLE_HOME (cumulative)
- Database Tier \$ORACLE_HOME (cumulative)
- Release 11/Minimum Technology Baseline (363827.1)





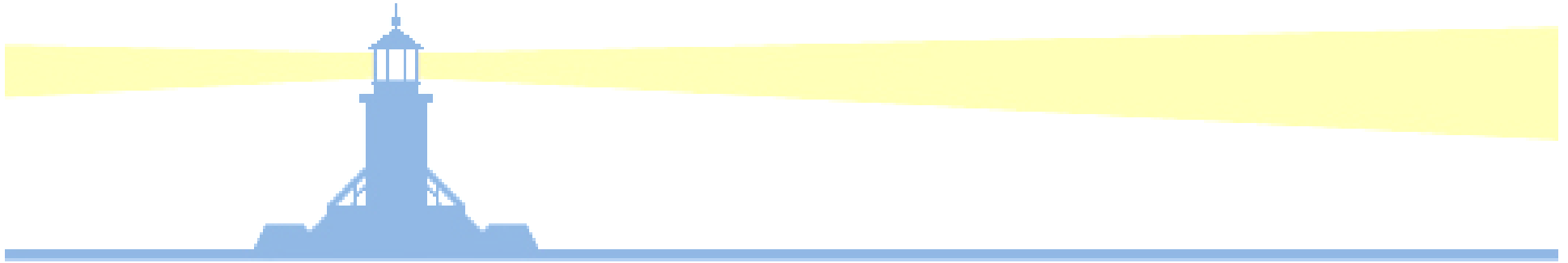
Release 12 Patching

- RUP1, RUP2 and RUP3 have been released
- AD Update Pack 3 Patch 6272715
 - Prerequisite for RUP3
 - MetaLink Doc. ID: 454385.1
- RUP3 Patch 6141000
 - MetaLink Doc. ID: 445192.1
- 18 more modules introduced



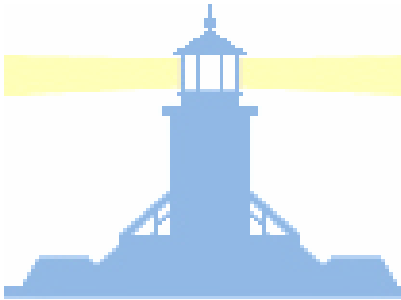
Patch Tips

- Pre-Patched/Staged \$APPL_TOP
 - MetaLink Doc. ID 242480.1
- Shared Application File System
 - MetaLink Doc. ID 233428.1 & 384248.1
- Distributed AD Patching
 - MetaLink Doc. ID 236469.1
- Patching Best Practices and Reducing Downtime
 - MetaLink Doc. ID 225165.1



Performance





Performance Considerations

- Patched Current
- Pinning
- Statistics
- Diagnostics



Patched Current

- Latest, Greatest Optimized Code
- Interdependencies Between Modules
- New Functionality and Features
- Changed Functionality



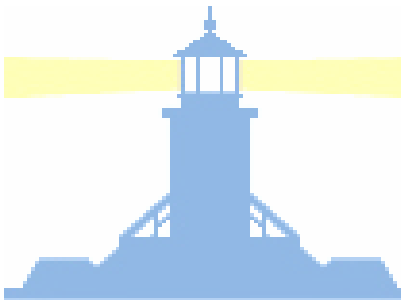
Pinning

- Oracle Applications requires space in the ORACLE System Global Area (SGA) for stored packages and functions; if SGA space is fragmented, there may not be enough space to load a package or function; you should pre-allocate space in the SGA shared pool for packages, functions, and sequences by "pinning" them
- Pinning objects in the shared pool can provide a tremendous increase in database performance, if it is done correctly; since pinned objects reside in the SQL and PL/PLSQL memory areas, they do not need to be loaded and parsed from the database, which saves considerable time
- PIND Pinning Toolkit – MetaLink 301171.1



Statistics

- The Concurrent Program Gather Schema Statistics should be run weekly (at a minimum) using ALL, 99 and NOBACKUP values unless time prohibits
- Minimum Gather Statistics should be run weekly against all non-sys/system objects using 10%
- Additionally, a separate statistics gathering process should be run daily on high transactions modules (e.g. AP, PO, OE, ONT, PA, PAY) during low processing periods
- Using any value larger than 50 will force a compute vs. an estimate for statistics; any value <50 only provides estimated statistics. Computed statistics provide a significant performance improvement for Application modules
- FND_STATS Required – MetaLink 141532.1



Release 11*i*/R12

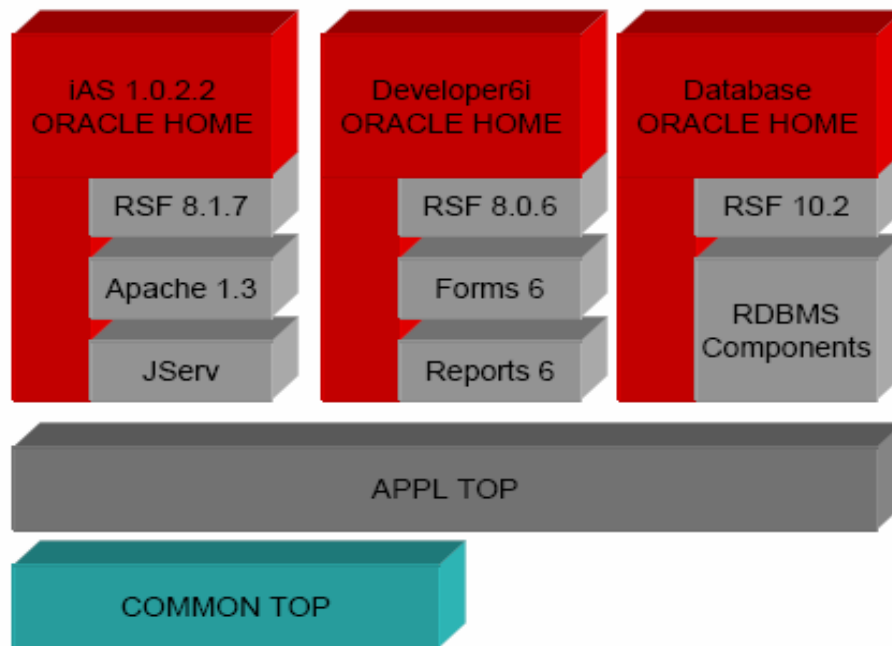
Diagnostics

- Diagnostics – will be required by Oracle Support for SRs by end of 2008
- Remote Diagnostic Agent (RDA)
- BDE Scripts – Database
- Statspack / Automatic Workload Repository (AWR)
- Technology Validation Utility / CSM
- OAM Performance Tuning Wizards and Diagnostics are constantly being enhanced



Release 11i Components

11i Installed & Managed File System



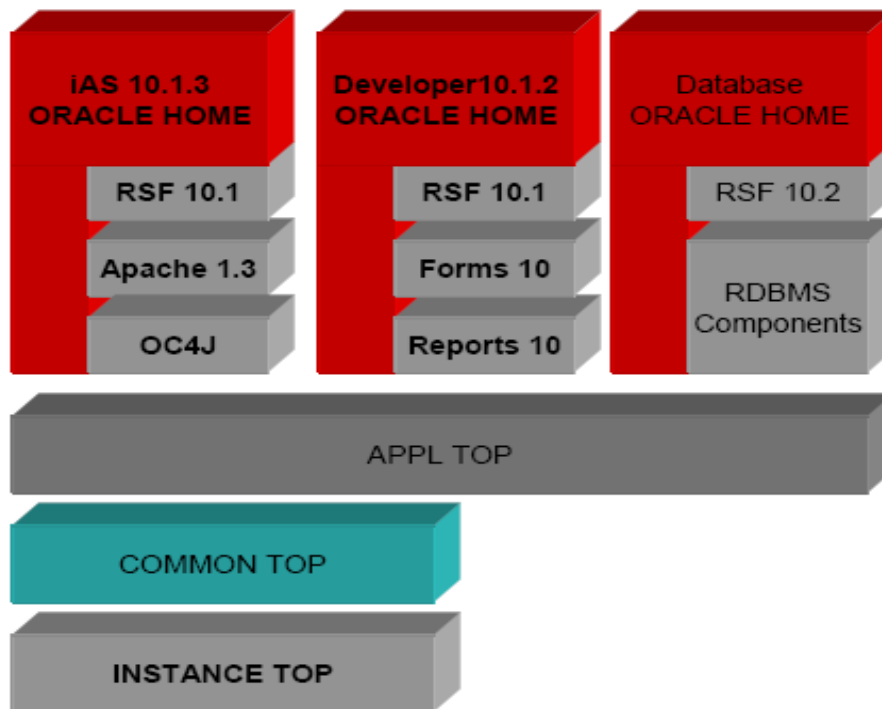
Major Components:

- Java Home: 8.1.7-based iAS 1.0.2
- C Home: 8.0.6-based Developer 6
- Database Home: 10.2
- Appl Top: Applications' code staging area
- Common Top: Runtime location for Java, HTML, run-time generated files



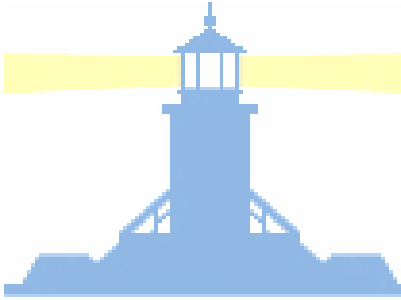
Release 12 Components

R12 Installed & Managed File System



Major Components:


- Java Home: 10.1-based iAS 10.1.3 –new
- C Home: 10.1-based Developer 10 standalone install of AS 10.1.2 phase2 –new
- Database Home: 10.2
- Appl Top: Applications' code staging area
- Common Top: Runtime location for Java, HTML
- Instance Top: configuration and run-time generated files –new



Release 12 Components

- Sun's Native 1.5 Java Runtime Environment (JRE)
- Java Home 10.1.3
 - Required Support Files (RSF) 10.1
 - Apache 1.3.34
 - OC4J – Oracle Containers for J2EE
 - Execute Servlets, Java Server Pages (JSP) and Enterprise Java Beans (EJB)
 - Three Instances (Oacore, Forms, OAFM)
 - Deploys EAR (Enterprise Archive), WAR (Web Application Files), JAR (Web Application Code), JSP and HTML
 - Oracle Process Manager and Notification Server (OPMN)



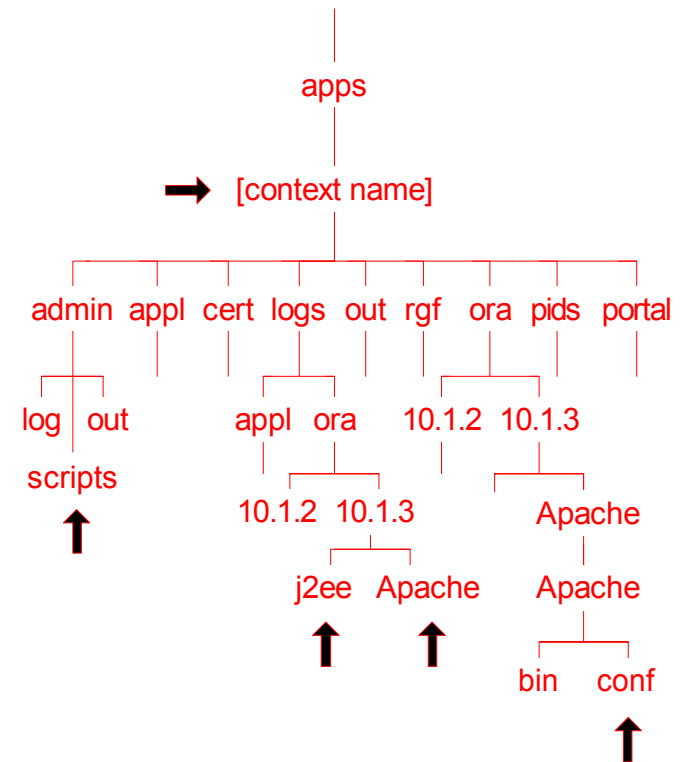
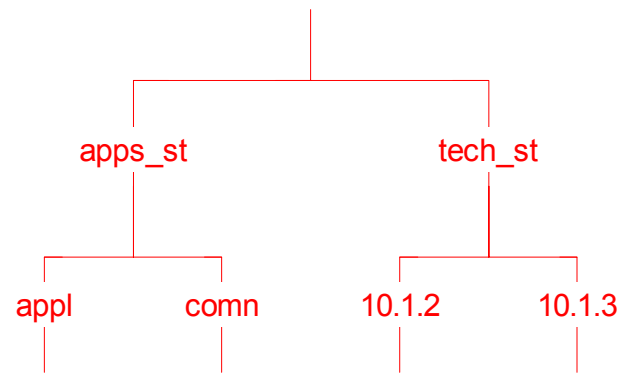
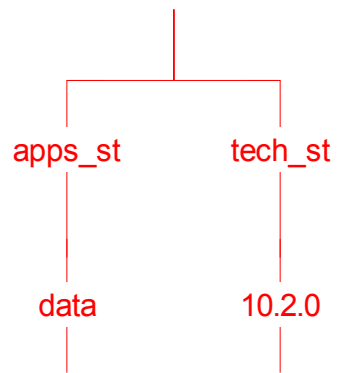


Release 12 Components

- Developer Home 10.1.2
 - Required Support Files (RSF) 10.1
 - Forms
 - Swan UI
 - Servlet
 - Forms Trace
 - Forms Generator
 - Reports (Only Available from Concurrent Managers)
 - 'C' Code
- Database Home 10.2.0.2
- APPL_TOP
 - Application Code
- COMMON_TOP
 - Runtime Java and HTML
- INSTANCE_TOP
 - Configuration Files



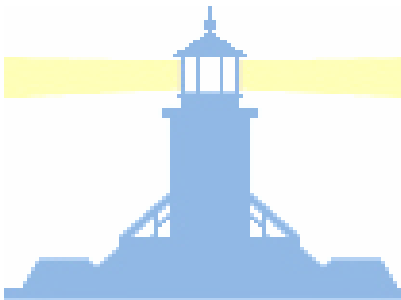
Release 12 Directory Structure





Release 12 Changes

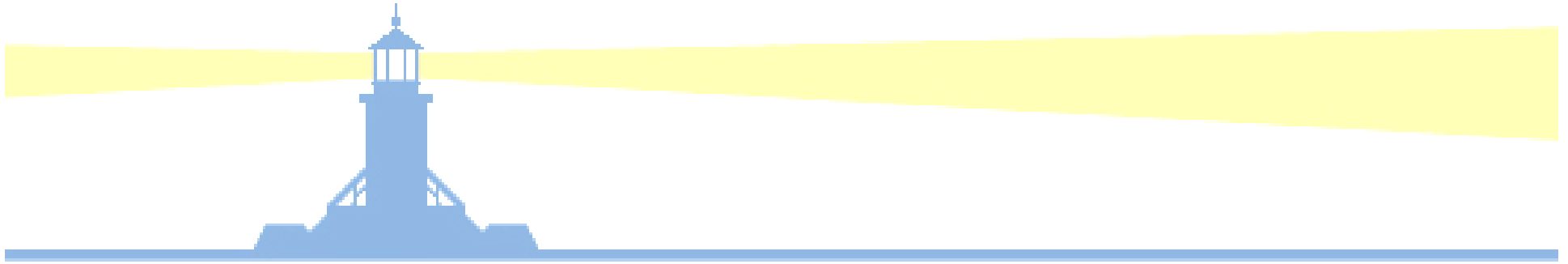
- No JInitiator – Use JRE 1.5
- No mod_plsql
- No Oracle Graphics – Rewrite with XML Publisher and OAF/BI Beans
- Report Server not utilized
- OC4J replaces JServ with Orion-web.xml, Orion-application.xml, OC4J.properties and Server.xml



Release 12 Changes

- Not Included in Rapid Installation
 - Discoverer 10.1.2
 - SSO/OID 10.1.2
 - Portal 10.1.4
 - WebCache 10.1.2
 - Collaboration Suite 10.1.2
 - Warehouse Builder 10gR1
 - Enterprise Manager 10.1.2
 - Integration Server 10.1.3
 - Forms Developer installed separately as part of Developer Suite

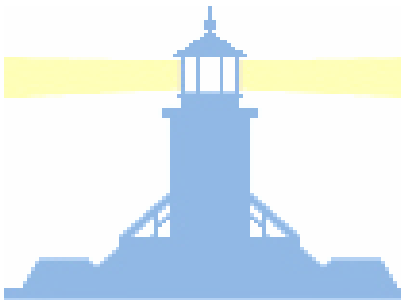




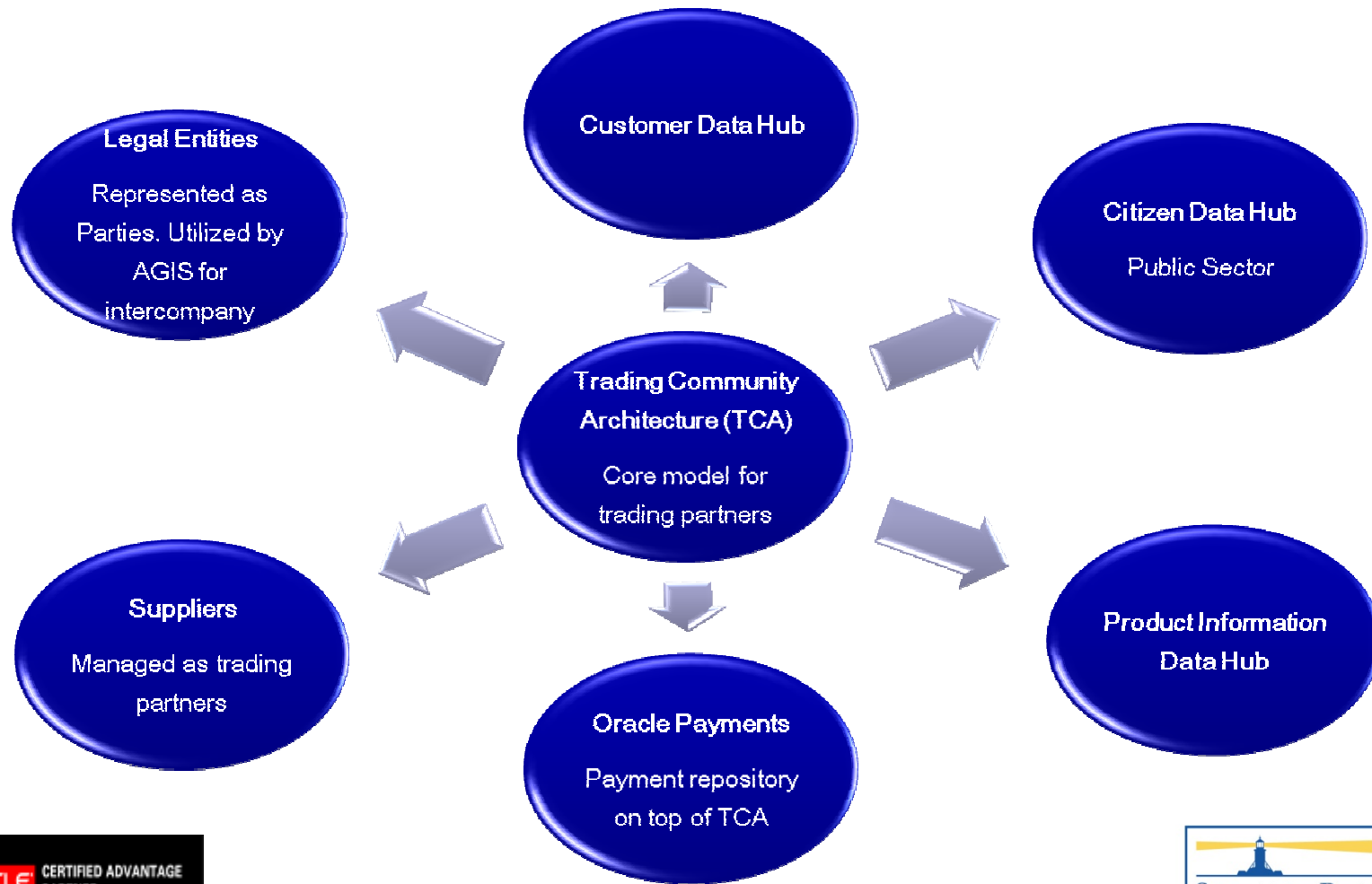
Release 12

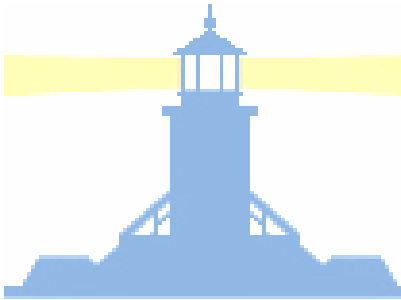
Functional Highlights





Data Management – A Single Source of Truth





Multi-Org Access Control

- Access multiple operating units within a single application responsibility
- Perform tasks for and across multiple operating units
 - Enter transactions
 - Process data
 - View information
 - Run reports
- Increase effectiveness of Shared Service Centers



New in Financial Product Family

- Subledger Accounting – Schema XLA
 - Rule-based accounting engine with a centralized data model and repository
 - Individual subledgers will no longer generate accounting
 - Generates and stores detailed accounting entries
 - User-defined Accounting Rules



New in Financial Product Family

- Payments – Schema IBY
 - Payment Factory Model
 - Single Payment across Operating Units with the same Legal Entity
 - Bank/Branches are TCA Parties
 - Bank Account owned by Legal Entity
 - Single User Interface



New in Financial Product Family

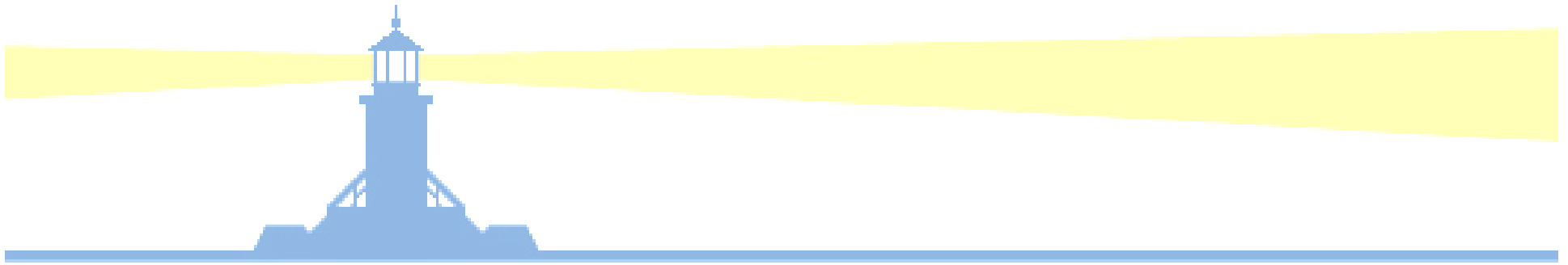
- E-Business Tax – Schema ZX
 - Manages Transaction Taxes
 - Order to Cash
 - Procure to Pay
 - Calculates Tax at Line Level
 - Utilizes Data Repositories
 - Tax Content – rates and rules
 - Tax Record – tax entries
 - Single User Interface
 - Tax Simulator
 - Integration with third party vendors





New in Financial Product Family

- Advanced Global Intercompany System – Schema FUN
 - Automatic Intercompany Invoicing
 - Receivables invoice used and mirror is created in payables
 - Still Supports Manual Entry
 - Transactions batches can be applied across ledgers
 - Reconciliation Tool
 - Run Intercompany Reconciliation Data extract



Next Steps



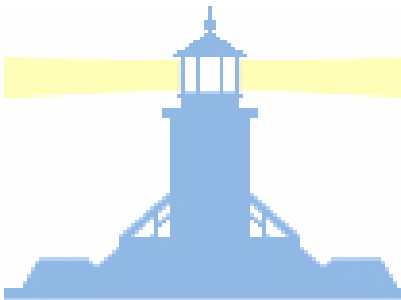


Release 12 Next Steps**

- Upgrade Database to 10gR2
- Review mod_plsql
- Migrate to XML (BI) Publisher
- Install Forms/Reports Builder 10.1.2
- Review Custom.pll Library
- 10% Larger Database
- Review Fusion Middleware

**Subject to Change





Customer Driven Roadmaps

GM Organizational Model Drives Execution

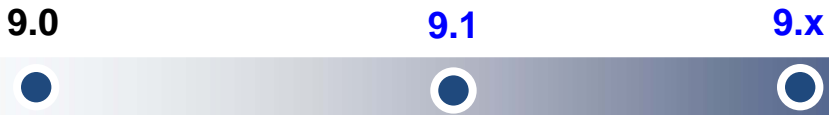
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World A9.1, World A9.2

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V1.0





Oracle Lifetime Support Policy – Revisited

Key Feature	Premier Support (5 Years)	Extended Support (3 Years)	Sustaining Support (Infinite)
Major Product and Technology Releases	•	•	•
Technical Support	•	•	•
Access to Support Portal	•	•	•
Updates and Fixes	•	•	Pre-existing
Security Alerts	•	•	Pre-existing
Upgrade Scripts	•	•	Pre-existing
Critical Patch Updates	•	•	
Tax, Legal, and Regulatory Updates	•	•	
Certification with Existing third-party Products/versions	•	•	
Certification with most new Oracle products	•	•	
Certification with most new third-party	•		



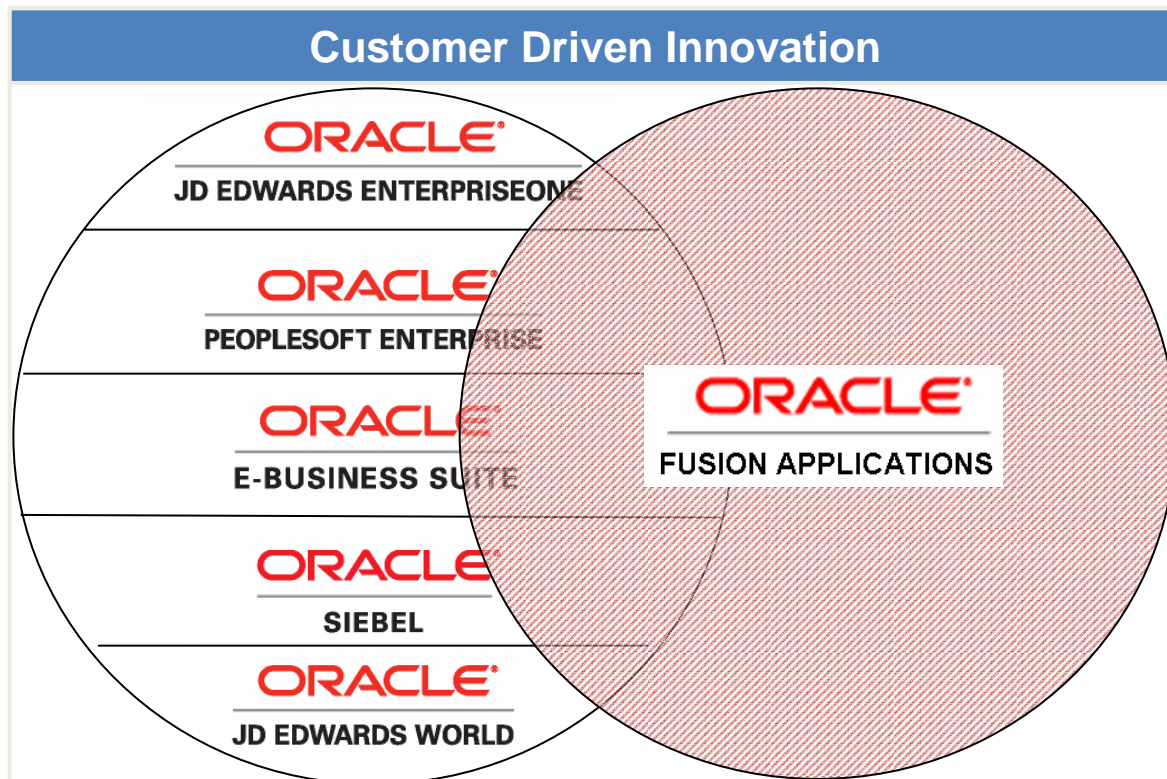
Policy Applies to
PSFT 8.8, JDE 8.11, EBS R11i.10, Siebel 7.5





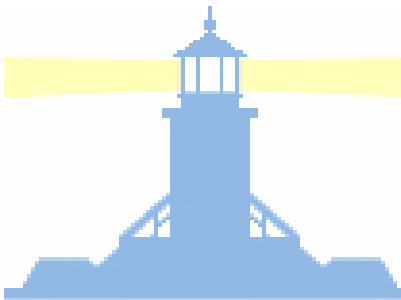
How Fusion Applications Fit

Customers continue to extend value in current products and choose if they move to Fusion.



Next Generation Technology





Fusion Technology in Apps Unlimited Family Today

The Plan is to Evolve to the Next Generation by Leveraging Fusion Technology Today

Application Integration Architecture
Reduced TCO through sustainable integrations



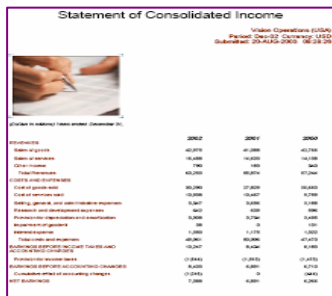
BI Intelligence
Insight provided within the context of operational systems



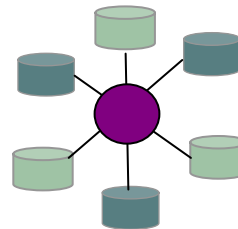
GRC
Control cost and risk; insight to increase accountability

Risk Assessment Survey		
Risk Issue	Strategic Weight	Weighted Score
1. Are you launching a new product?	10	10
2. Are you entering a new market?	9	0
3. Are you targeting a new customer segment?	5	0

Reporting
Easy, intuitive end user reports built from any data source

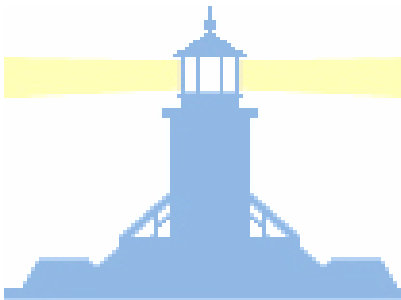


Master Data Management
Consolidate and leverage master data



Enterprise Manager
Reduce resolution times with integrated management





Upgrade Strategy?

- Stick with Release 11*i* and Upgrade to Fusion Later
 - If you don't need new features of Release 12, you can stay where you are, but you'll still have to apply CPUs and RUPs
- Upgrade to Release 12 and Upgrade to Fusion Later
 - Very stable release
 - Includes new modules and many functional enhancements
 - You'll still have to apply CPUs and RUPs
- Either way, where possible begin preparing for Fusion NOW with the Fusion Middleware!

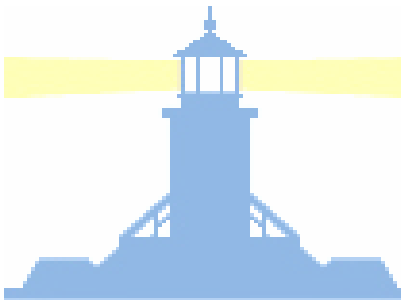




Prepare for Fusion!

- Understand your business processes – Use the Business Process Analysis Suite
- Rethink your customization strategy – take inventory and engineer for the future
- Cleanse and consolidate your critical data – consider Master Data Management (MDM)
- Extend your business intelligence portfolio – OBIEE, BAM and Oracle DBI
- Adapt enterprise reporting and publishing – use BI Publisher for high fidelity XML based reporting

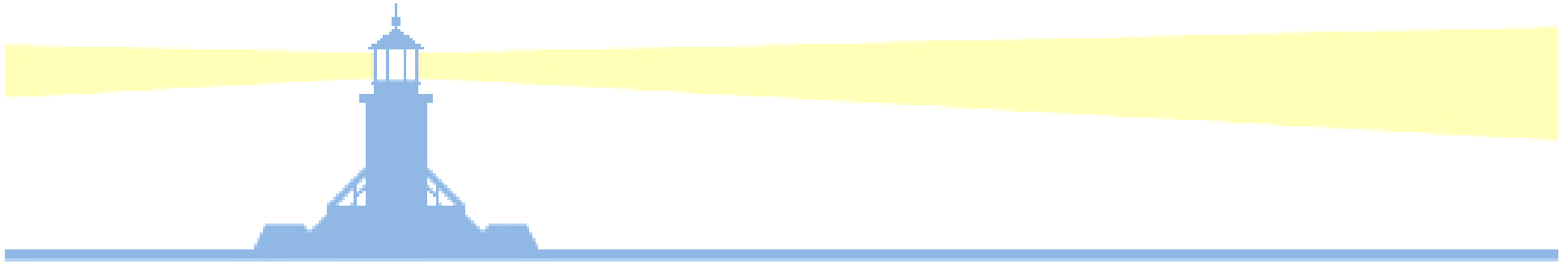




Prepare for Fusion!

- Secure your global enterprise – implement Identity Management Capabilities – reduce risk
- Improve the scalability and availability of your data – implement Oracle 10g/11g databases
- Centralize systems management – use the Applications Management Pack (AMP) and OEM
- Build your strategic plan for your Applications – Understand Applications Unlimited and Lifetime Support
- Develop SOA, EDA, BPM experience – Get familiar with the Fusion Architecture Technology
- Patch and the patch – stay up to date to minimize downtime





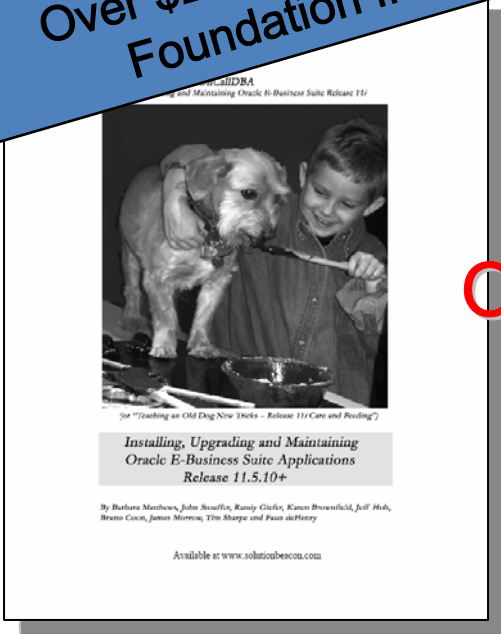
More Information





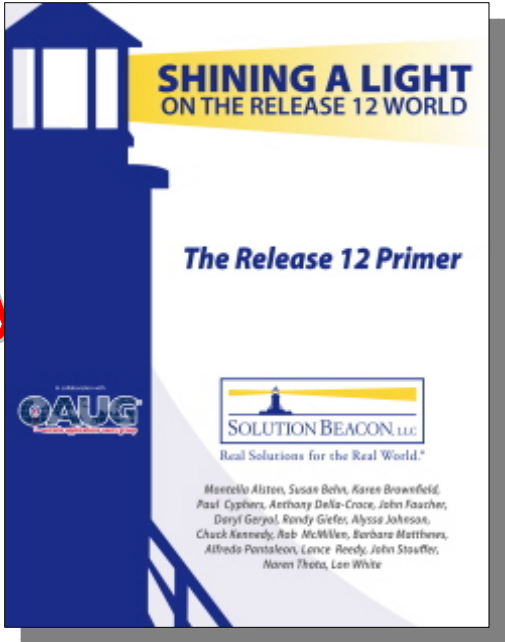
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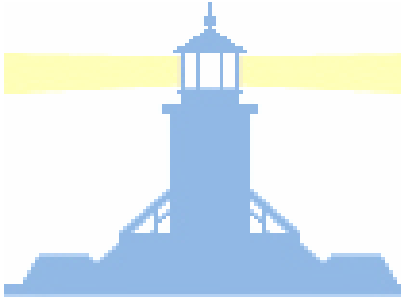
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Questions and Answers

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