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How we simplified Web, Mobile and Cloud development for our developers? - the Oracle Story

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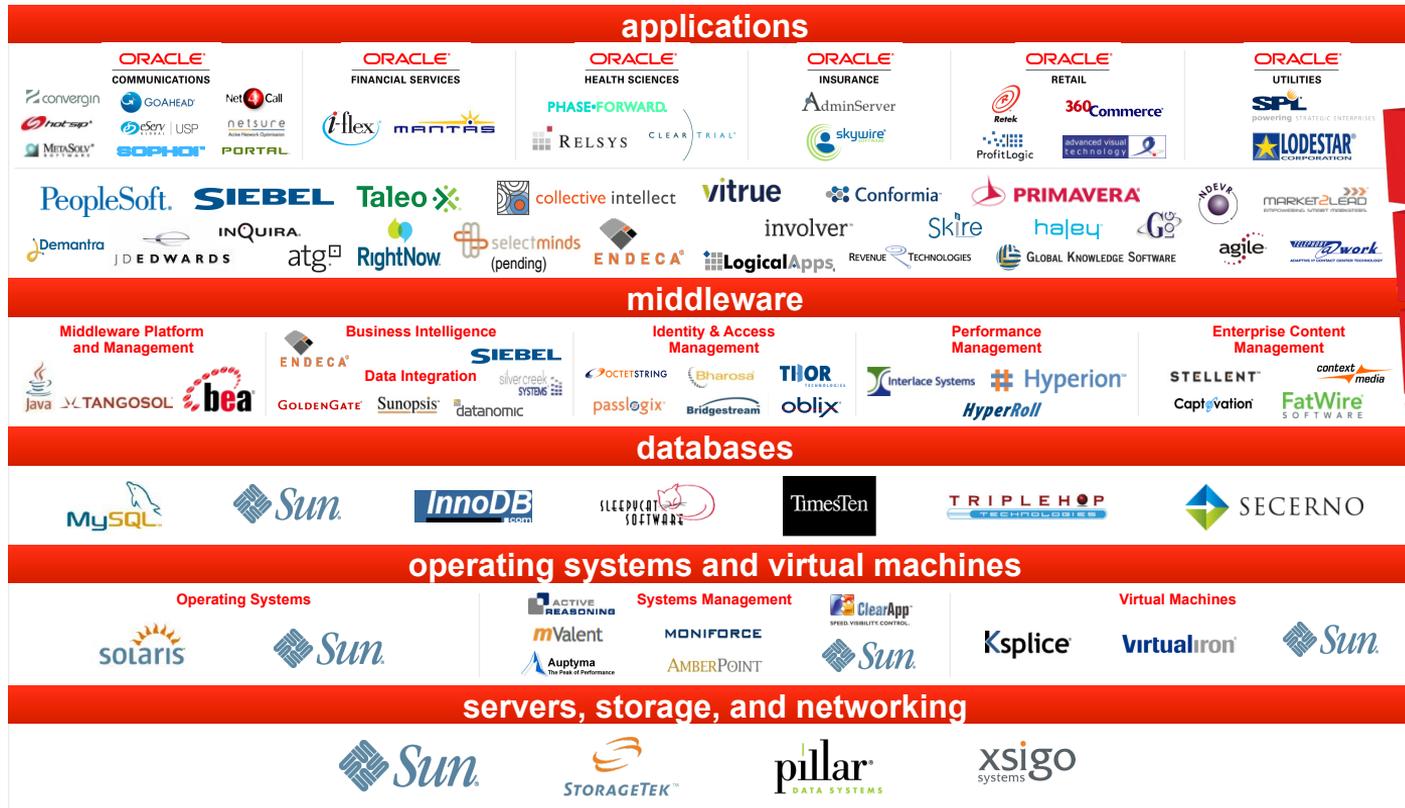
<http://blogs.oracle.com/shay> - @jdevshay



What Does Oracle Do?

- Hint
 - We are not just developing database

Oracle Acquisitions



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Oracle Fusion Applications

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CLOUD

Human Capital Management

Global HR

Global Payroll

Workforce Management

Talent Management

Customer Experience

Sales & Marketing

Customer Service

Live Help

Customer Hub

ERP

Financials

Supply Chain Management

Procurement

Project Portfolio Management

Risk & Control Management

Cloud Platform

Social Network

Java

Database

Data Services

EPM Foundation

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Oracle Fusion Applications



What's the problem

- Technology
- Size
- Channels
- Personalization/Customization

What We Needed In Our Applications

- Cutting edge user interface
- Multi-channel access (web, mobile, desktop)
- Agile application – processes and rules
- Customizable per user

What We Needed From Our Architecture

- Future proofed
- Protection from technology shifts
- Support for new channels/devices
- Openness/Pluggability
- Simpler and faster development

Knowledge Gap

- Developers background
 - Mostly 4GL background (Oracle Forms, PeopleTools, .Net)
- Technologies at the base of the application
 - Java EE
 - Ajax
 - SOA
 - Mobile
 -

Oracle Application Development Framework

A Common Framework for the Platform

- Abstract & protect from low level technologies
- Increase productivity & ease-of-use
 - Visual and declarative development
 - Takes care of the “plumbing” code
 - Implements best practices
- Promote service oriented development
- Standards-based
- End-to-end coverage



RIA Web User Interface

ADF Faces Components

- Component based UI construction
 - 150 components, built in Ajax/HTML5
- Protect from UI technology changes
 - Ajax? Flash? HTML 5? Touch?
- Increase Reusability
- Visual development
 - Layout editor, component palette, property inspector



Database Interaction

ADF Business Components

- Extensive built-in functionality
 - Master/detail, Query, List of values, calculations, transactions...
- Declarative definition
 - Code by exception
- Reusable
 - Across applications, multiple UIs
- Service enabled
 - Wizard approach to SOA exposure



Service Abstraction

ADF Model

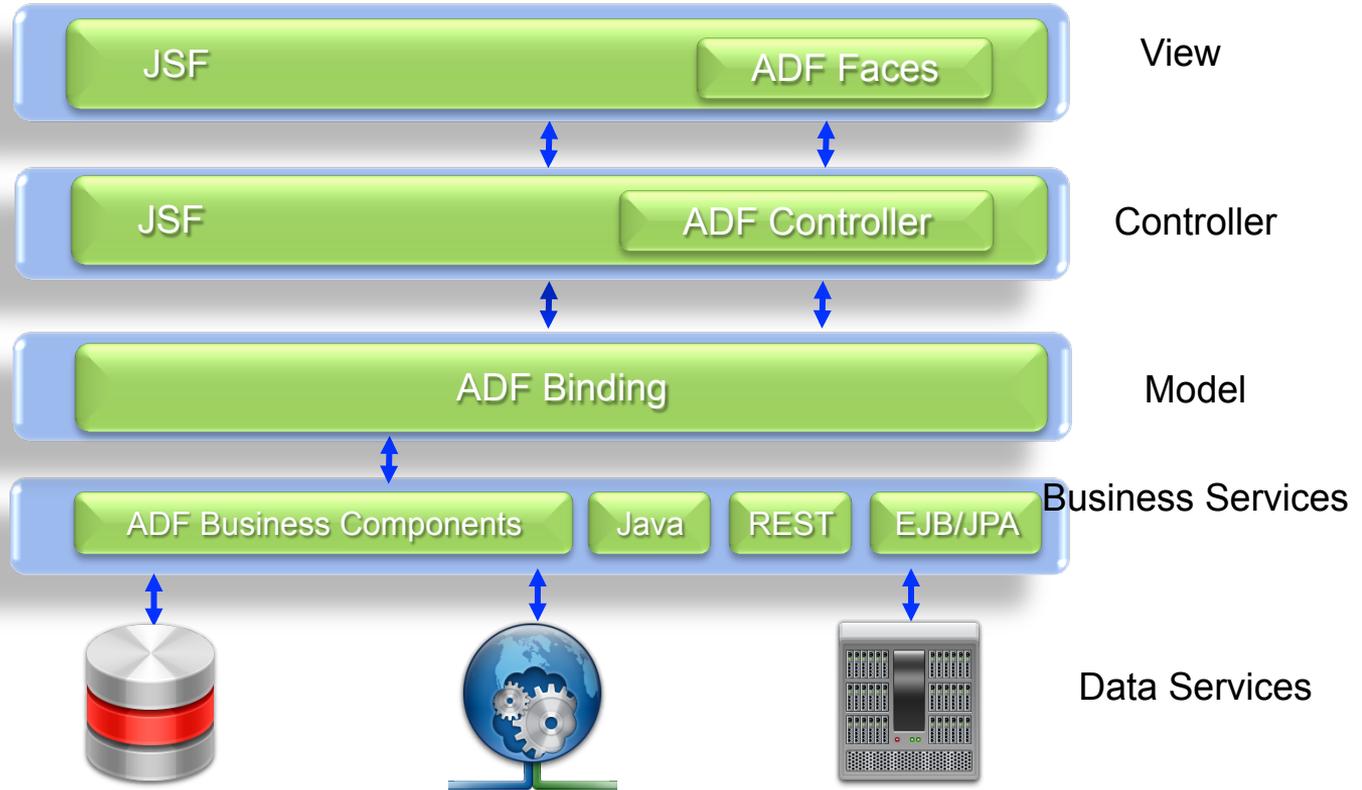
- Abstract service's technical implementation
- Simplify UI creation
- Access multiple sources of data
 - Java, EJB, JPA, ADF Business Components
 - Web services, REST services
 - BAM, BPM Tasklist
 - More...



Demo Basic Oracle ADF Development Experience



Oracle ADF Essentials



Some Fusion Apps Statistics

- Model jars: 3,517
- Ui jars: 1,311
- Projects: 8,125
- Entities working against DB - > 18,500
- JSF pages ~ 10,000

Size = Challenge

- How to break down work
 - Between teams
 - Between team members
- How to share artifacts
- How to not re-invent the wheel

Functional Reusability

ADF Controller

- Create reusable functional flows
- Extend JSF functionality
- Model process for Web UI
 - Page and task flow
- Extended reusability
 - Use in other flows
 - Regions inside pages
 - Package for dynamic addition to pages



Demo Reusable Flows



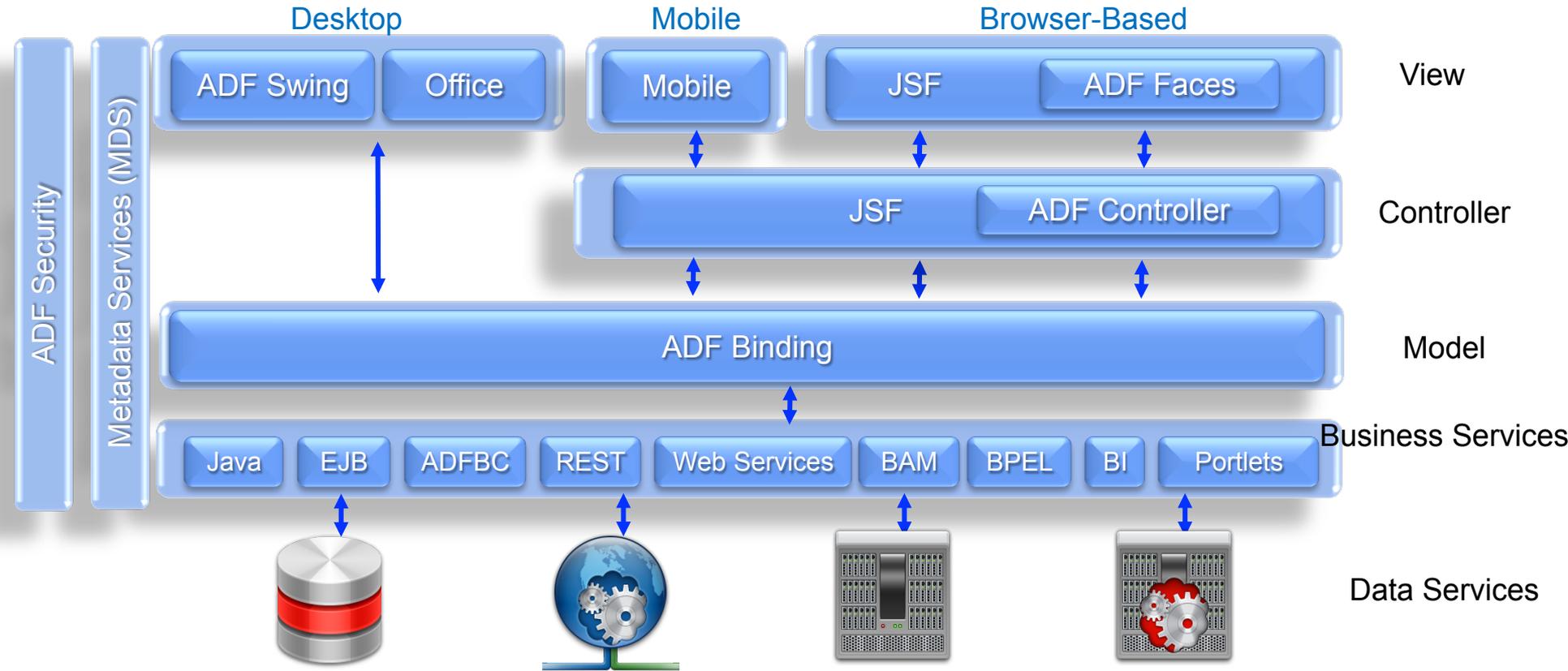
Multi-Channel Access

ADF Mobile, ADF Desktop Integration

- Web, Mobile, Desktop/MS Office
- Common development tool
- Common framework
- Common services
- Common security
- Common gesture and concepts



Oracle ADF Architecture



Oracle ADF Mobile

Write Once, Deploy to Many



Oracle
ADF Mobile

Java

HTML5

Built On Standards

Use Existing Skills Set



Demo Simplifying Mobile Development

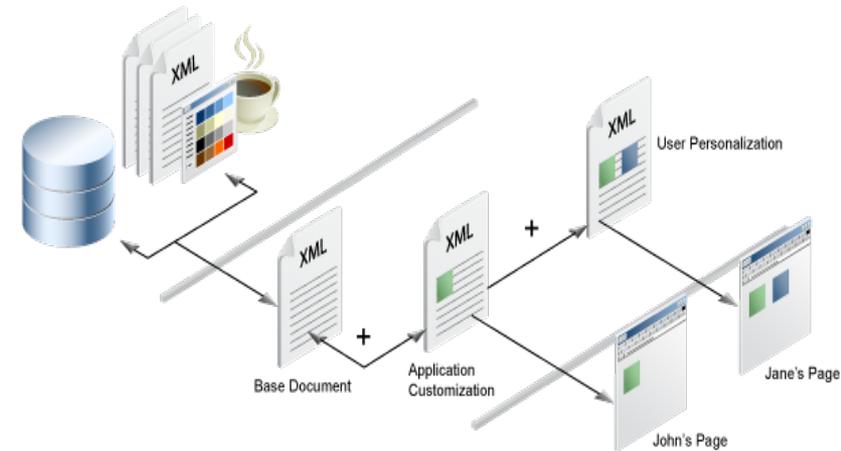


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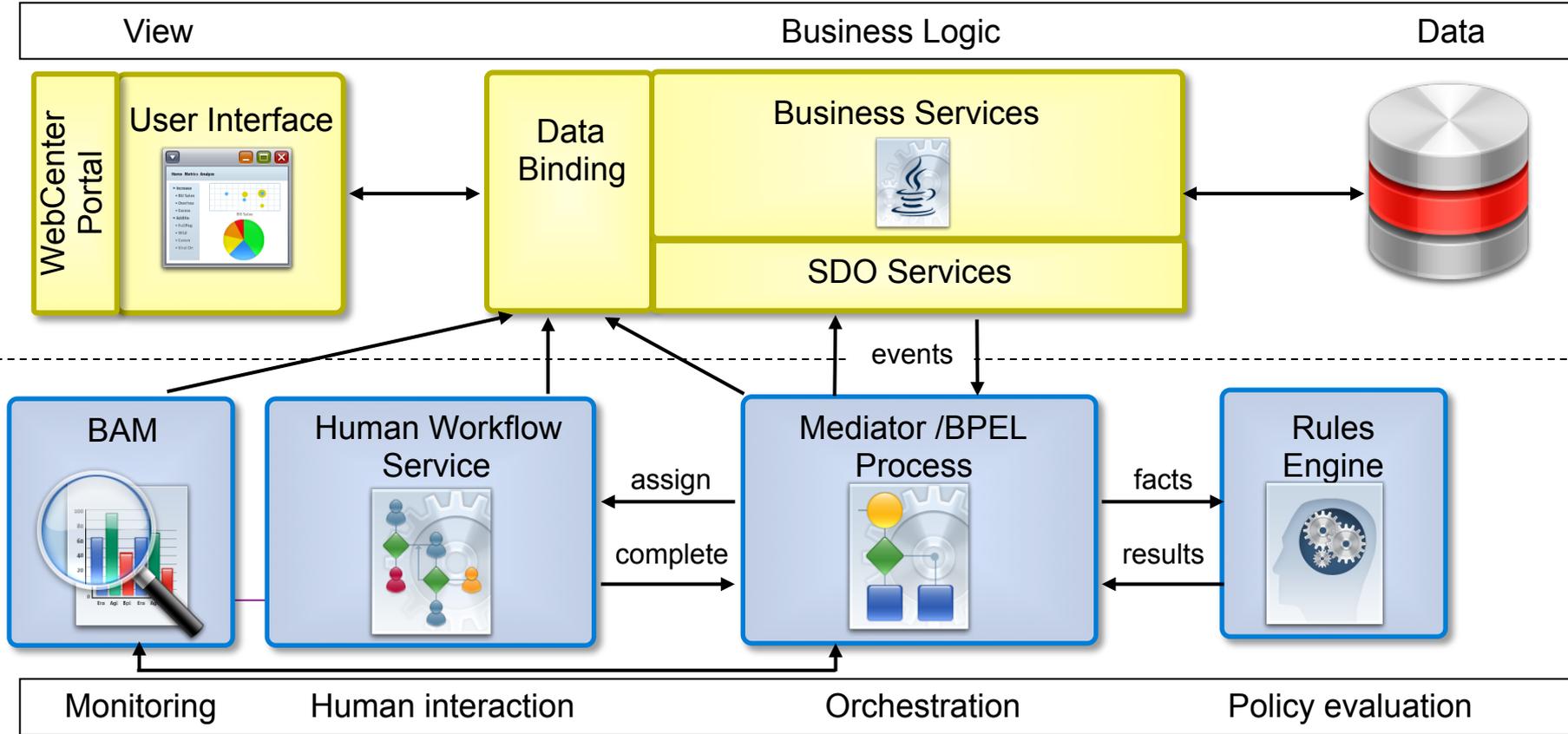
Customization and Personalization

Oracle MDS

- Persist users UI preferences
 - Screen layout, fields order, queries
- Customize application functionality
 - In every layer
 - Layered approach
 - No modification to base application
 - Upgrade safe customization



The Fusion Architecture



Expending ADF with Fusion Middleware

- SOA Suite
 - Agile automatic and human processes definition and execution
- Oracle WebCenter Portal
 - Portal behaviors
 - Web 2.0 services
 - Content Integration
- Oracle Business Intelligence
 - Reporting and analysis + New data sources

Demo

Oracle ADF + Oracle BPM Suite + Oracle WebCenter



Other Lessons Learned

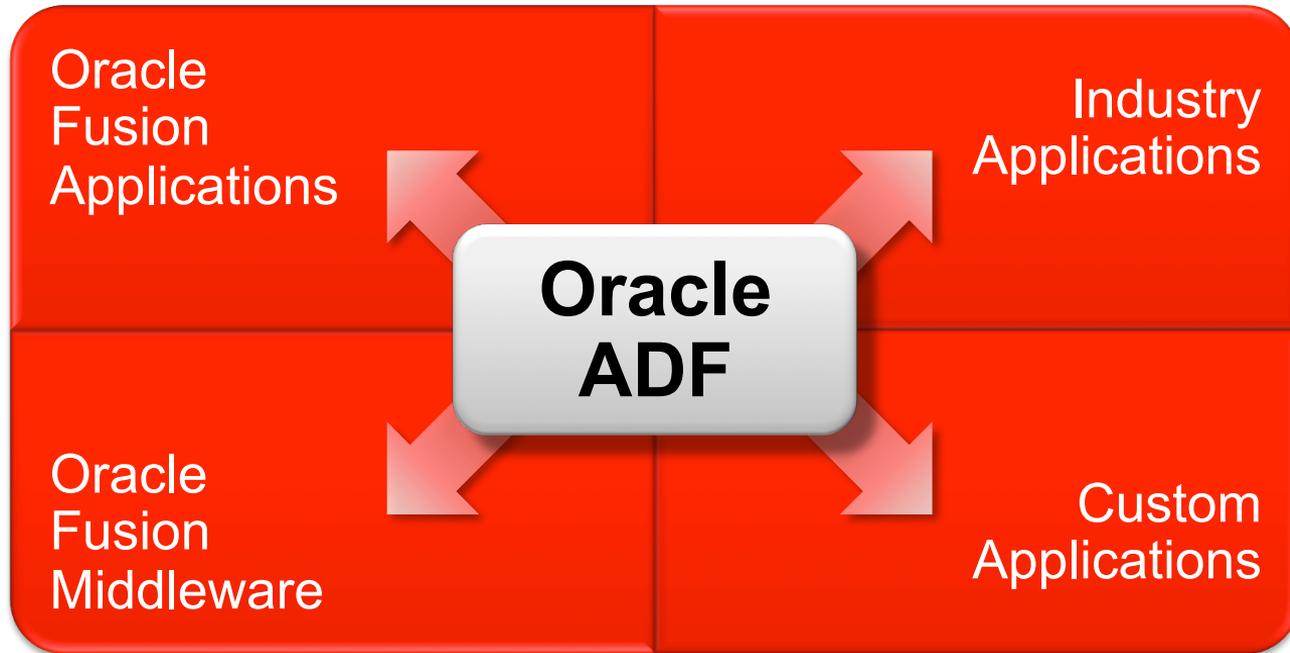
Getting up To Speed

- Don't skip training phase
- POC as a way to learn
- Be ready to throw away the POC
- Identify experts
 - They act as first point of contact for questions

Lifecycle Management

- CI for build/deploy/test
- Needed for the SCRUM approach
- Not an after thought
- Needs its own team
- Not simple to setup full infrastructure
 - Think about (cloud) hosted option

Oracle's Strategic Development Framework



Other Oracle Products

ORACLE Enterprise Manager Cloud Control 12c

Grid → Targets → Favorites → History → Search Target Name → Page Refreshed Jul 29, 2011 4:39:05 AM PDT

Enterprise Summary

Overview View | All Targets
Targets Monitored: 2905
Status: Targets with Status: 2241

Status
Targets with Status: 2241

- Down (33)
- Alerts Collection (107)
- Agent (15)
- Alerts (6)
- Pending (338)
- Up (1,475)

Incidents
Open: 1097
Updated in last 24 hours: 696

Category	Open	Resolved	Others
Availability	95	244	60
Performance	-	4	-
Security	-	122	-
Others	95	954	62

Problems
Open: 36 | Without Service Request: 36
Updated in last 24 hours: 30

Jobs
Suspended Executions (last 7 days): 15
Problem Executions (last 7 days): 4267
Action Required Executions (last 7 days): 0

Patch Recommendations
View by: Classification | Target Type
Other Recommendations: Security

Inventory and Usage
Show: Hosts | See Details
View: Platforms

Platform	Hosts	OS Patches
Enterprise Linux Server release 5.6 (Carthage)	39	No
Enterprise Linux AS release 4 (October Update 8)	19	No
Enterprise Linux Server release 5.4 (Carthage)	6	No
SunOS	5	No
Red Hat Enterprise Linux Server release 6.0 (Santiago)	3	No

Compliance Summary
Compliance Frameworks | Compliance Standards
View: View Trends

Name	Target Evaluations	Violations	Average Compliance Score (%)
No data to display			

Least Compliant Targets
View: View Trends

Target Name	Target Type	Standard Evaluations	Violations	Average Compliance Score (%)
slc00ahq.us.oracle.com	Host	0 0 1 1 0 0 0		51
ad2170590.us.oracle.com	Host	1 0 0 2 0 0 0		51
slc003.us.oracle.com	Host	1 0 0 1 0 0 0		51
ad2110071.us.oracle.com	Host	1 0 0 2 0 0 0		51
slc00ef.us.oracle.com	Host	0 0 1 0 0 0 0		100

Service Requests
My Oracle Support
You cannot access My Oracle Support while in offline mode.

ORACLE BPM Workspace

Applications | Processes | Tasks and Work Items | **Finance Dashboard** | Year: 2008

File Expense Report
Start Employee Onboarding
Finance Dashboard
HR Dashboard

Average Examination Lead Time (Days)
36

Average Entry Variance (Days)
63

Average Internal Audit Lead Time (Days)
Line chart showing lead time in days from Jan to Dec.

Process Views
History: Today, Yesterday, Sunday, Last Week, Two Weeks Ago, Three Weeks Ago
Task Views: Inbox, My Work Queues, Standard Views, Bookmarks, Due Soon, High Priority
Preferences, Rules, Administration, Process Composition, Chart: By Priority

Pie Chart Data:

- Below 10K: 13.89%
- 10 up to 20K: 23.33%
- 20K up to 30K: 30.56%
- 30K up to 40K: 20.00%
- 40K and Higher: 12.22%

Even More Products



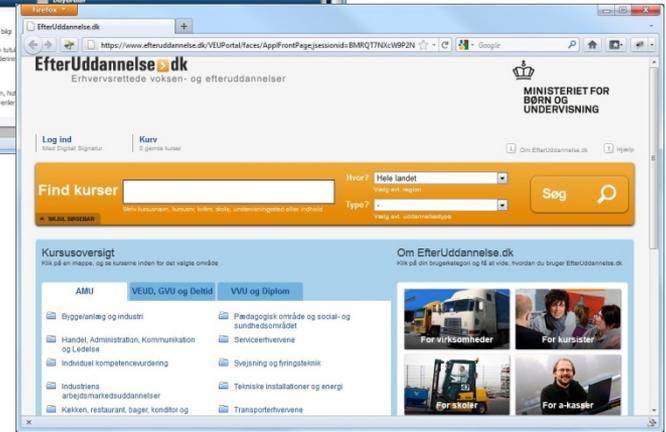
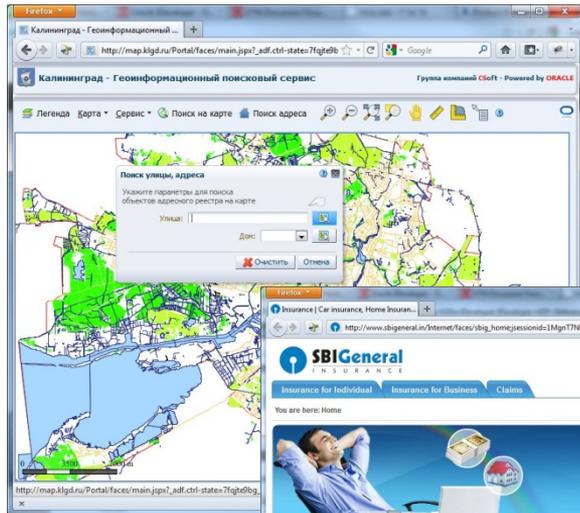
My Oracle Support

The screenshot displays the My Oracle Support dashboard interface. At the top, there is a navigation bar with the Oracle logo and 'MY ORACLE SUPPORT' text. Below this, a secondary navigation bar includes links for 'Dashboard', 'Knowledge', 'Service Requests', 'Patches & Updates', 'Community', 'Certifications', 'On Demand', and 'Reports'. The main content area is divided into several sections:

- Getting Started:** A sidebar with links for 'Welcome to My Oracle Support!', 'My Oracle Support Training Central', 'My Oracle Support FAQ', 'Follow My Oracle Support on Twitter', and 'Improving Your Online Support Experience'.
- News:** A section with links for 'Welcome Pillar Data Customers - Start Here', 'Avoid the Unexpected: Get Proactive!', 'E-Business Suite 12.0.x Extended Support Waiver', 'What's New in My Oracle Support', 'Welcome Endeca Customers - Start Here', 'My Oracle Support Release Notes', and 'Big Data Appliance & Analytics Customers - Start Here for Engineered Systems'.
- Service Requests:** A table listing various issues. The table has columns for 'Problem Summary', 'SR Number', 'SR Type', 'Severity', 'Contact', and 'Status'. The rows include details for issues like 'obj.conf problem in Planet 7 64-bit', 'Need example of primavera Project WS .createProjectFromT...', 'The data of Primavera Analytics was not updated after upgr...', 'How to implement SSD to Primavera 8.1', 'Agle PLM 9311#F95 BREAKS THE OPLA ETL DUE TO DATA E...', 'Siebel Email (Issue Raised by Security Team) Externality Rep...', 'Global option needs to be added to use all table columns for ...', and 'SGD 4.7 BETA testing - graphical performance via SGD, VNC...'.
- Knowledge Articles:** A section titled 'Alerts (230) Recently Updated (12419)' listing recent updates such as 'Gateway Functionality in Oracle Web Services Manager (OWSM) 11g [882229.1]', 'Americas (US, CA, HX) HCH High Priority Alert [404478.1]', '2FS 7310C/7410C Systems With Certain Ethernet Cards may be Unable to Rejoin Cluster [1405209.1]', 'Critical Patch Released For Release 12 Project Customers Using PA/PO Integration [1209243.1]', 'OHW: Performance issues in OHW and Data Dictionary when pressing Cancel with Tools Release 9.1.0.1 and earlier [1404527.1]', 'Web server will not start for Siebel CRM version 8.1.1.6 or 8.2.2 on Linux with OHS 10g [1375035.1]', 'SUN ALERT WEEKLY SUMMARY REPORT [1021776.1]', and 'About Marketing Mini-pack 11LAMS.1 [279036.1]'.

At the bottom of the dashboard, there is a footer with copyright information: 'Copyright (c) 2012, Oracle. All rights reserved. Legal Notices and Terms of Use Privacy Statement Third Party Licenses'.

Customer's Sites and Applications



Summary

- Technology evolves
- Pick a solution that will protect you
- Don't get carry away with the latest buzz
- Think of the bigger picture
- The Oracle solution is available for you to use too

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Oracle's JDeveloper PM blog

[blogs.oracle.com/ JDeveloperpm](https://blogs.oracle.com/JDeveloperpm)

oracle.com/jdev



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Q&A

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