



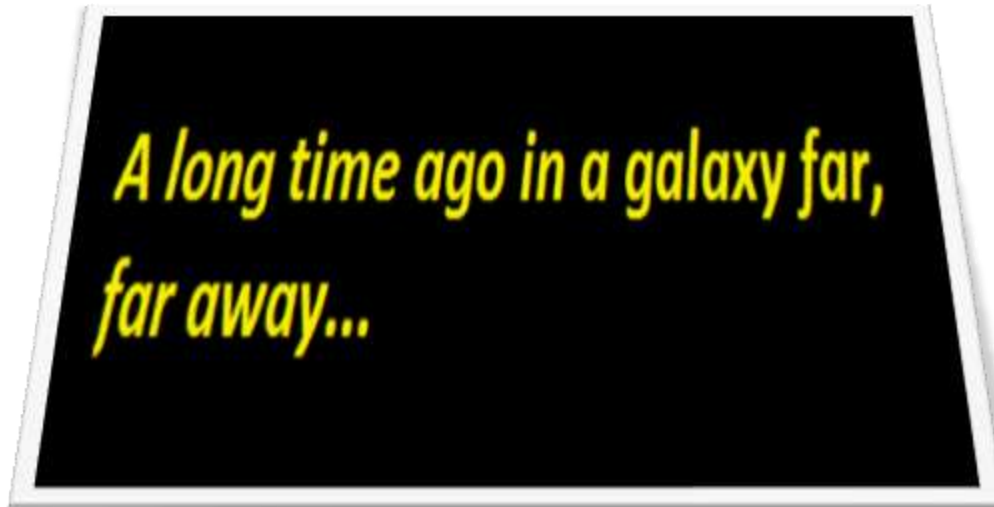
Marco

**ORACLE EXADATA**  
**ORACLE EXALOGIC**  
**ORACLE LINUX**  
**ORACLE XBRL**



# EXADATA V1

- 2008
- Oracle – HP Hardware
- Completely forgotten...?
- HP issues (Hurd/Bugs?)





# ORACLE EXADATA V2

- 2009
- Oracle – Sun (aka Oracle)

v2 Full Rack	
Database servers	8 x Sun Fire x4170 1U
Database CPUs	Xeon E5540 quad core 2.53GHz
database cores	64
database RAM	576GB
Storage cells	14 x SunFire X4275
storage cell CPUs	Xeon E5540 quad core 2.53GHz
storage cells CPU cores	112
IO performance & capacity	15K RPM 600GB SAS or 2TB SATA 7.2K RPM disks
Flash Cache	5.3TB
Database Servers networking	4 x 1GbE x 8 servers = 32 x 1GbE
InfiniBand Switches	QDR 40Gbit/s wire
InfiniBand ports on database servers (total)	2 ports x 8 servers = 16 ports
Database Servers OS	Oracle Linux only



Source: Alex Gorbachev



# ORACLE EXADATA X2-2

- 2010
- Oracle/Sun

X2-2 / Full Rack	
Database servers	8 x Sun Fire x4170 M2 1U
Database CPUs	Xeon X5670 six cores 2.93GHz
database cores	96
database RAM	768GB
Storage cells	14 x SunFire X4270 M2
storage cell CPUs	Xeon L5640 six cores 2.26GHz
storage cells CPU cores	168
IO performance & capacity	15K RPM 600GB SAS (HP model – high performance) or 2TB SAS 7.2K RPM disks (HC model – high capacity)
Flash Cache	5.3TB
Database Servers networking	4 x 1GbE x 8 servers + 2 x 10GbE x 8 servers = 32 x 1Gb + 16 x 10GbEE
InfiniBand Switches	QDR 40Gbit/s wire
InfiniBand ports on database servers (total)	2 ports x 8 servers = 16 ports
Database Servers OS	Oracle Linux (possible Solaris later, still unclear)



Source: Alex Gorbachev



# ORACLE EXADATA X2-8

- 2010
- Oracle/Sun

X2-8 / Full Rack	
Database servers	2 x Sun Fire x4800 5U
Database CPUs	Xeon X7560 eight cores 2.26GHz
database cores	128
database RAM	2TB
Storage cells	14 x SunFire X4270 M2
storage cell CPUs	Xeon L5640 six cores 2.26GHz
storage cells CPU cores	168
IO performance & capacity	15K RPM 600GB SAS (HP model – high performance) or 2TB SAS 7.2K RPM disks (HC model – high capacity)
Flash Cache	5.3TB
Database Servers networking	8 x 1GbE x 2 servers + 8 x 10GbE x 2 servers = 16 x 1Gb + 16 x 10GbEE
InfiniBand Switches	QDR 40Gbit/s wire
InfiniBand ports on database servers (total)	8 ports x 2 servers = 16 ports
Database Servers OS	Oracle Linux or Solaris x86



Source: Alex Gorbachev





# ORACLE EXADATA X2-2 / X2-8

	X2-2 / Full Rack	X2-8 / Full Rack
<b>Database servers</b>	8 x Sun Fire x4170 M2 1U	2 x Sun Fire x4800 5U
<b>Database CPUs</b>	Xeon X5670 six cores 2.93GHz	Xeon X7560 eight cores 2.26GHz
<b>Database Core's</b>	96	128
<b>Database RAM</b>	768GB	2TB
<b>Storage Cells</b>	14 x SunFire X4270 M2	14 x SunFire X4270 M2
<b>Storage Cell CPUs</b>	Xeon L5640 six cores 2.26GHz	Xeon L5640 six cores 2.26GHz
<b>Storage Cells CPU Core's</b>	168	168
<b>IO performance &amp; Capacity</b>	15K RPM 600GB SAS (HP model – high performance) or 2TB SAS 7.2K RPM disks (HC model – high capacity)	15K RPM 600GB SAS (HP model – high performance) or 2TB SAS 7.2K RPM disks (HC model – high capacity)
<b>Flash Cache</b>	5.3TB	5.3TB
<b>Database Servers Networking</b>	4 x 1GbE x 8 servers + 2 x 10GbE x 8 servers = 32 x 1Gb + 16 x 10GbEE	8 x 1GbE x 2 servers + 8 x 10GbE x 2 servers = 16 x 1Gb + 16 x 10GbEE
<b>InfiniBand Switches</b>	QDR 40Gbit/s wire	QDR 40Gbit/s wire
<b>InfiniBand ports on database servers (total)</b>	2 ports x 8 servers = 16 ports	8 ports x 2 servers = 16 ports
<b>Database Servers OS</b>	Oracle Linux (possible Solaris later, still unclear)	Oracle Linux or Solaris x86

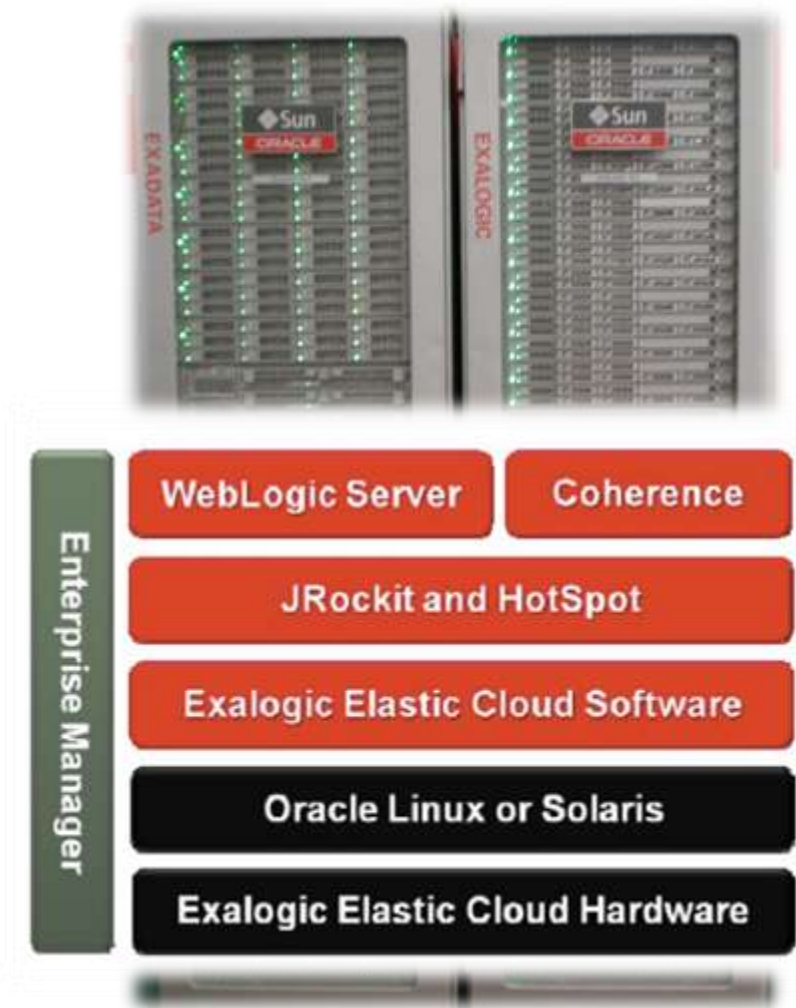
Source: Alex Gorbachev



- 2010
- “Cloud in a Box”
- Dynamic Cluster sizing:
  - WebLogic Server
  - Coherence
  - Enterprise Manager
  - Oracle VM
- Single update

## X2-2 Architecture:

- Sun Fire X4170 M2
- 6-core 2.93 GHz 64-bit Intel Xeon
- 960 GB of solid-state disk
- 40 TB of SAS disks
- 4 TB of read cache
- 72 GB of write cache
- InfiniBand, 40 Gb/sec switched







# PRICELIST

## **Exadata Database Machine X2-2**

- Full Rack: 1,000,000 \$**
- Premier Support: 120,000 \$**

## **Exadata Database Machine X2-8**

- Full Rack: 1,500,000 \$**
- Premier Support: 180,000 \$**

**Exadata Storage Server X2-2 includes: Hardware, Hardware Warranty, and Oracle Linux. It does not include hardware installation or software configuration services**

**<http://www.oracle.com/corporate/pricing/exadata-pricelist.pdf>**



# ORACLE LINUX

- **Oracle Linux != Oracle Enterprise Linux**
- **Two flavors:**
  - RedHat Kernel
  - Oracle Unbreakable Linux Kernel
- **Linux**
  - Oracle Linux (5.5)
  - Oracle Solaris (11)
- **Oracle 5.5 >=**
- **Is used in Exadata/Logic**
- **Possibility to improve**



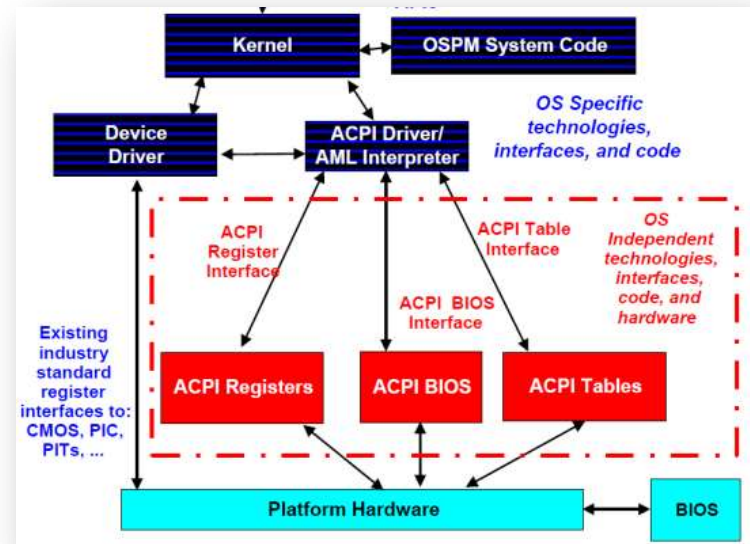




# ORACLE UNBREAKABLE LINUX KERNEL

- 400% more IOPS regarding 8 kb flash reads
  - Support up to 4096 CPU's
  - Support up to 2 TB of memory
  - Support up to 4 PB clustered volumes via OCFS2
  - Advanced NUMA support
  - Improved power management (eg. idle CPU's / ACPI 4.0)
  - Fine grained CPU & memory resource control
- 
- In flight memory detection corruption
  - Less intensive resource expensive (diagnostic) tooling
  - A lot of open source contributions

[oss.oracle.com](http://oss.oracle.com)







# ORACLE XMLDB

- ***Oracle XMLDB, not that much news***
  - XMLType Binary XML is the new default in 11.2.0.2.0
  - New / easier rewrite trace method in SQL\*Plus
  - Capable to handle huge XML Schema's, e.g. H7, fast...
  - DBMS\_XMLSCHEMA\_ANALYZE



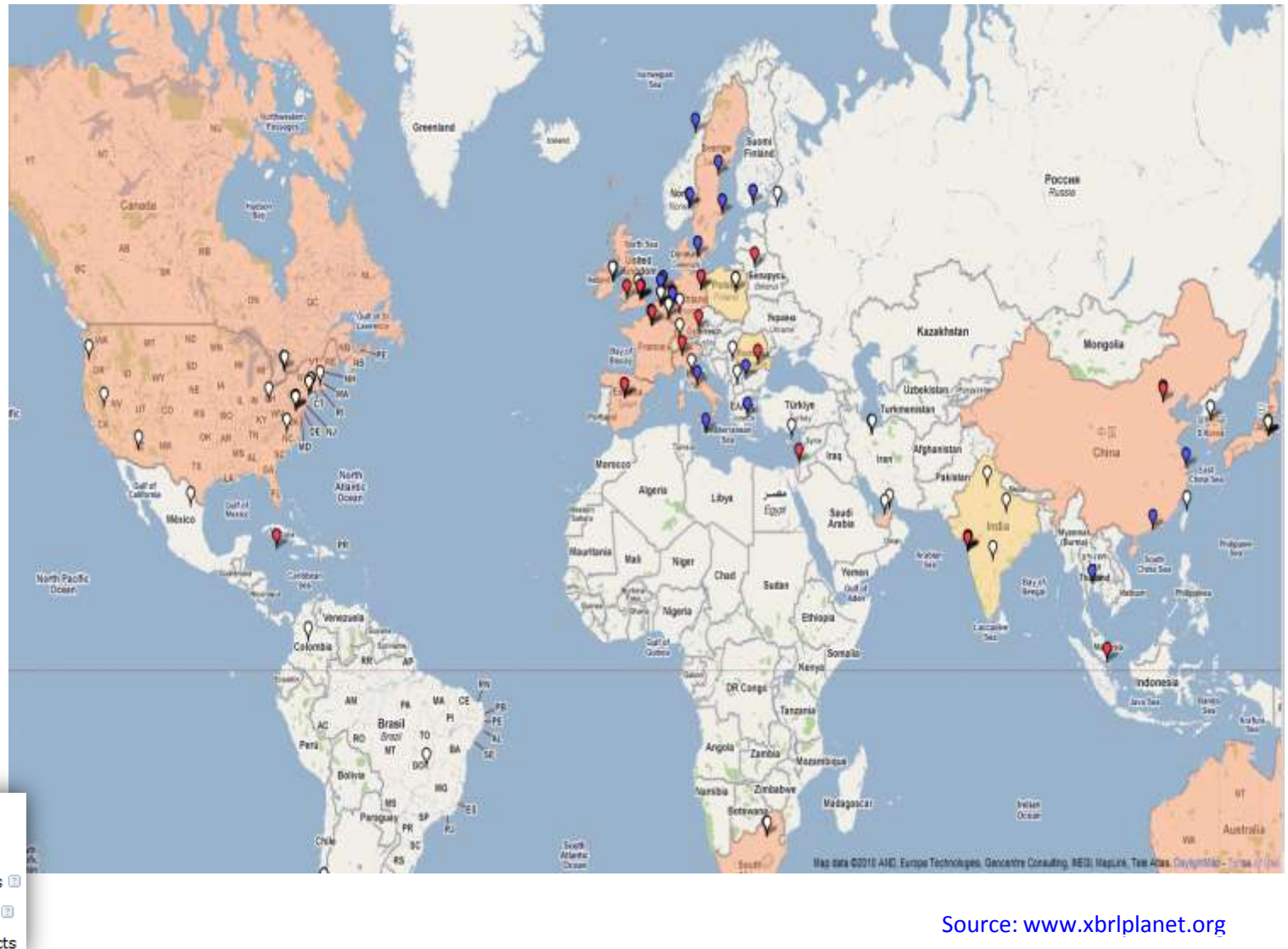
- **Oracle XBRL is hot on the Oracle agenda**
  - Hyperion XBRL options
  - Oracle EE database “XBRL Extention” (fna “XBRL Vault”)
- **Gartner 2010:**







# XBRL WORLDWIDE



Source: [www.xbrlplanet.org](http://www.xbrlplanet.org)









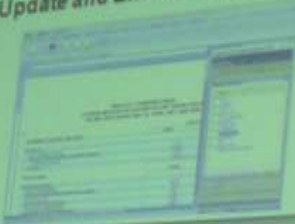
# ORACLE HYPERION

## Oracle Hyperion Disclosure Management

*Built to Streamline the External Reporting Process*

### XBRL TAXONOMY MANAGER

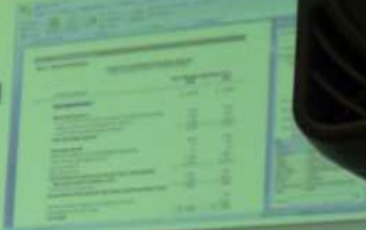
Update and Extend Taxonomies



### XBRL INSTANCE DOC CREATION

Drag/Drop With Hyperion Smart View

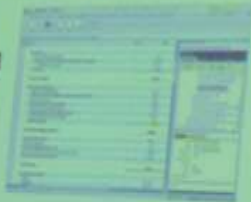
- MS-Word
- Hyperion Financial Reporting
- Excel



### XBRL VALIDATIONS

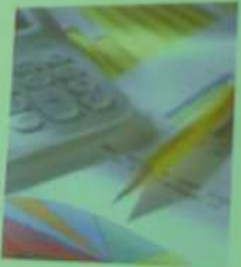
Same Engine as SEC

Totals and Subtotals Checked against Hyperion Source (HFM, etc)



### DOCUMENT MANAGEMENT (planned)

Check-in, Check-out, Collaboration, Version Control



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**ORACLE**



- 
- The screenshot shows the SAP Financial Accounting (FI) system interface. The main window displays the 'New Profit and Loss Account' (GuV) screen. The account type is 'Profit and loss account' and the account number is '11100000'. The account is set to 'Debit' and 'Credit'. The screen also shows the account's description and the account's balance.
- Profit and loss account**  
 11100000
- Profit and loss account**  
 for the company 11100000
- |         | Debit | Credit |
|---------|-------|--------|
| Balance | 0.00  | 0.00   |
| Profit  | 0.00  | 0.00   |
| Loss    | 0.00  | 0.00   |
| Total   | 0.00  | 0.00   |



- Database
- SQL Developer
- SQL Developer Data Modeler
- APEX



- Database
- SQL Developer
- SQL Developer Data Modeler
- APEX





12c







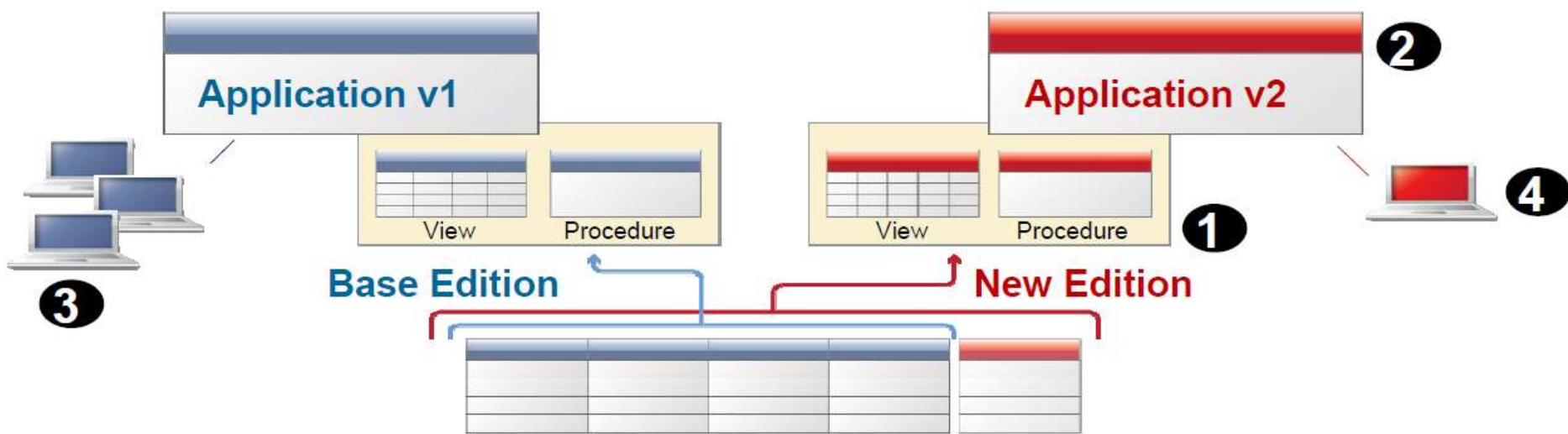


10 GB

Java Admin Console

No APEX









**1982**



“Did you notice what we did?  
No?

Then we did a good job”

*Bryn Llewellyn – product manager PL/SQL*



- Database
- **SQL Developer**
- SQL Developer Data Modeler
- APEX





# SQL Developer 3.0

Oracle SQL Developer : Table HR.JOBS@oe

File Edit View Navigate Run Versioning Tools Help

Connections Reports hr oe

HR

Tables

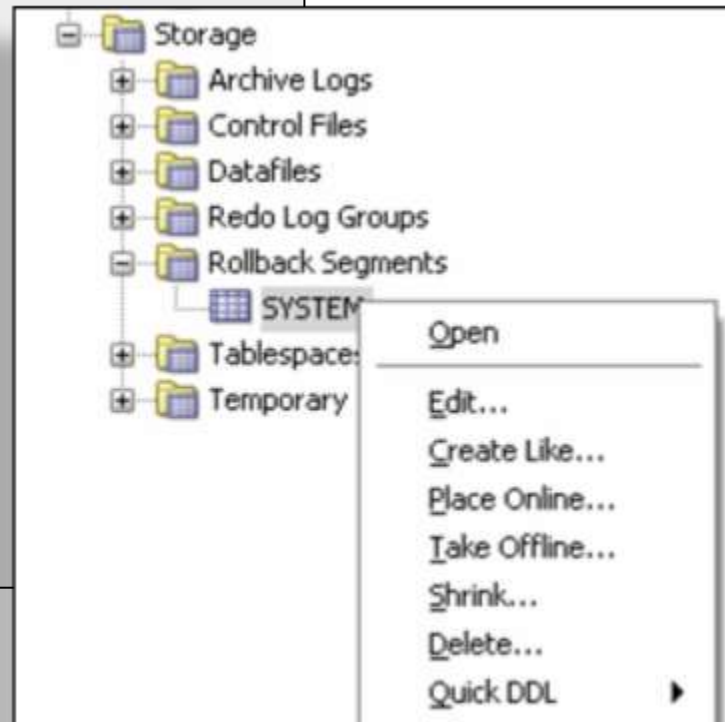
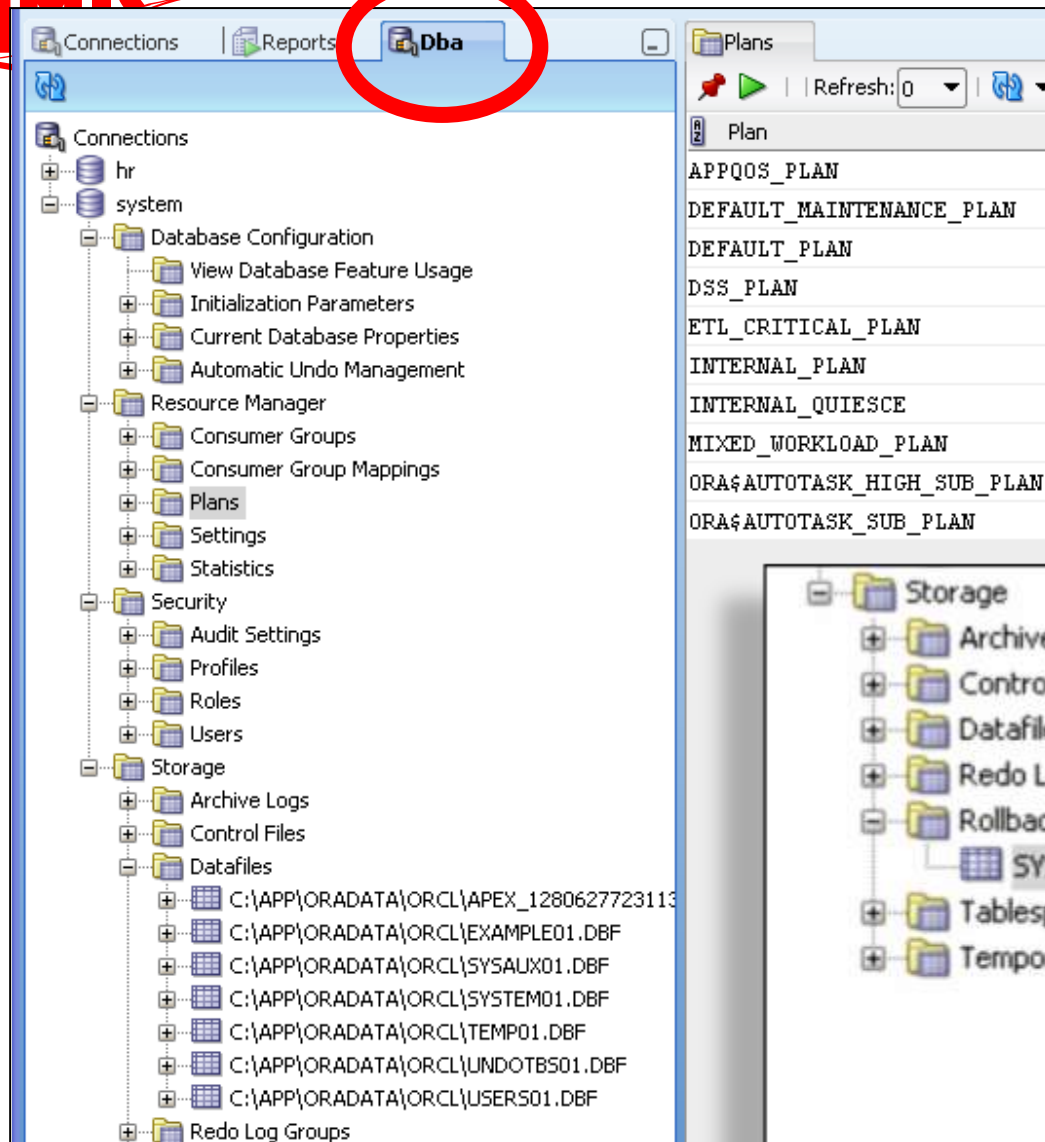
- COUNTRIES
- DEPARTMENTS
- EMPLOYEES
- JOBS**
- JOB\_HISTORY
- LOCATIONS

Columns Data Constraints Grants Statistics Triggers Flashback Dependencies Details Partitions Indexes SQL

Refresh: 0 Actions...

COLUMN_NAME	DATA_TYPE	NULLABLE	DATA_DEFAULT	COLUMN_ID	COMMENTS
JOB_ID	VARCHAR2(10 BYTE)	No	(null)	1	Primary key of jobs table.
JOB_TITLE	VARCHAR2(35 BYTE)	No	(null)	2	A not null column that shows job
MIN_SALARY	NUMBER(6,0)	Yes	(null)	3	Minimum salary for a job title.
MAX_SALARY	NUMBER(6,0)	Yes	(null)	4	Maximum salary for a job title







system 0.25 seconds

```

select /* use_hash e,d */ *
from hr.departments d, hr.employees e
where d.department_id = e.department_id
and e.first_name like 'A%';
  
```

Autotrace | Autotrace 1 | Compare Autotrace 1 with Autotrace

☐ Cascade Diff ☐ Ignore Pred

SELECT STATEMENT

- NESTED LOOPS
  - NESTED LOOPS
    - TABLE ACCESS (FULL) EMPLOYEES
      - Filter Predicates
        - E.FIRST\_NAME LIKE 'A%'
      - INDEX (UNIQUE SCAN) DEPT\_ID\_PK
        - Access Predicates
          - D.DEPARTMENT\_ID=E.DEPARTMENT\_ID
      - TABLE ACCESS (BY INDEX ROWID) DEPARTMENTS

SELECT STATEMENT

- NESTED LOOPS
  - NESTED LOOPS
    - TABLE ACCESS (FULL) EMPLOYEES
      - Filter Predicates
        - E.FIRST\_NAME LIKE 'A%'
      - INDEX (UNIQUE SCAN) DEPT\_ID\_PK
        - Access Predicates
          - D.DEPARTMENT\_ID=E.DEPARTMENT\_ID
      - TABLE ACCESS (BY INDEX ROWID) DEPARTMENTS

V\$STATNAME Name	V\$MYSTAT Value Autotrace 1	V\$MYSTAT Value Autotrace
CPU used by this session	6	4
CPU used when call started	6	4
DB time	7	5
SQL*Net roundtrips to/from client	13	13
buffer is not pinned count	26	26
buffer is pinned count	4	4





# SQL Tuning Advisor

SQL Tuning Advisor

5.766 seconds

Implement Type

- Statistics
- SQL Profile
- Indexes
- Restructure SQL

Overview

Detail

Tuning Task Name: **staName51030**

Tuning Task Owner: **HR**

Workload Type: **SQL Statement**

Scope: **COMPREHENSIVE**

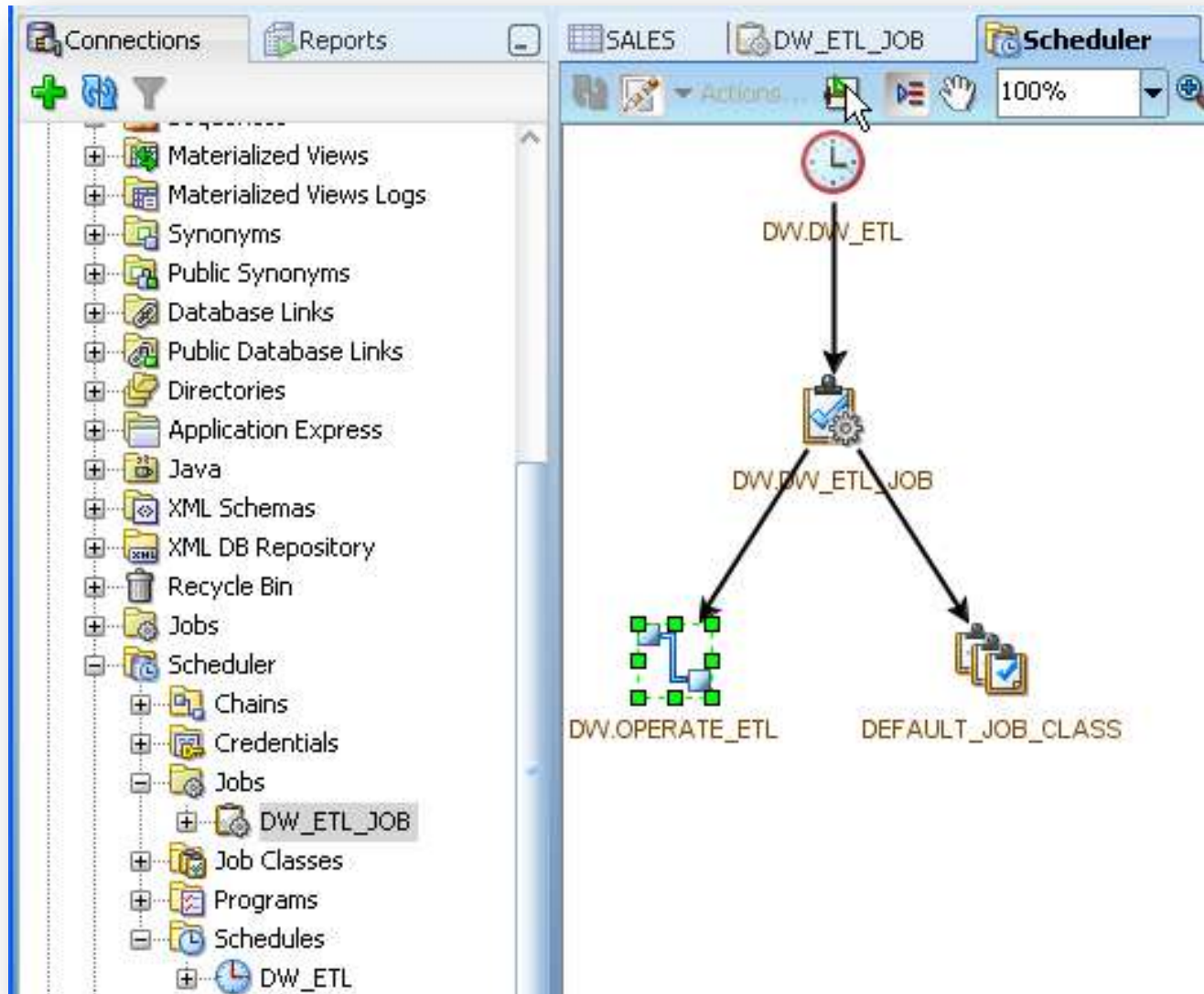
Completion Status: **COMPLETED**

```
select owner
         "Owner",
         initcap(object_type)
         object_name
         initcap(status)
         created
         nvl(last_ddl_time,created)
```

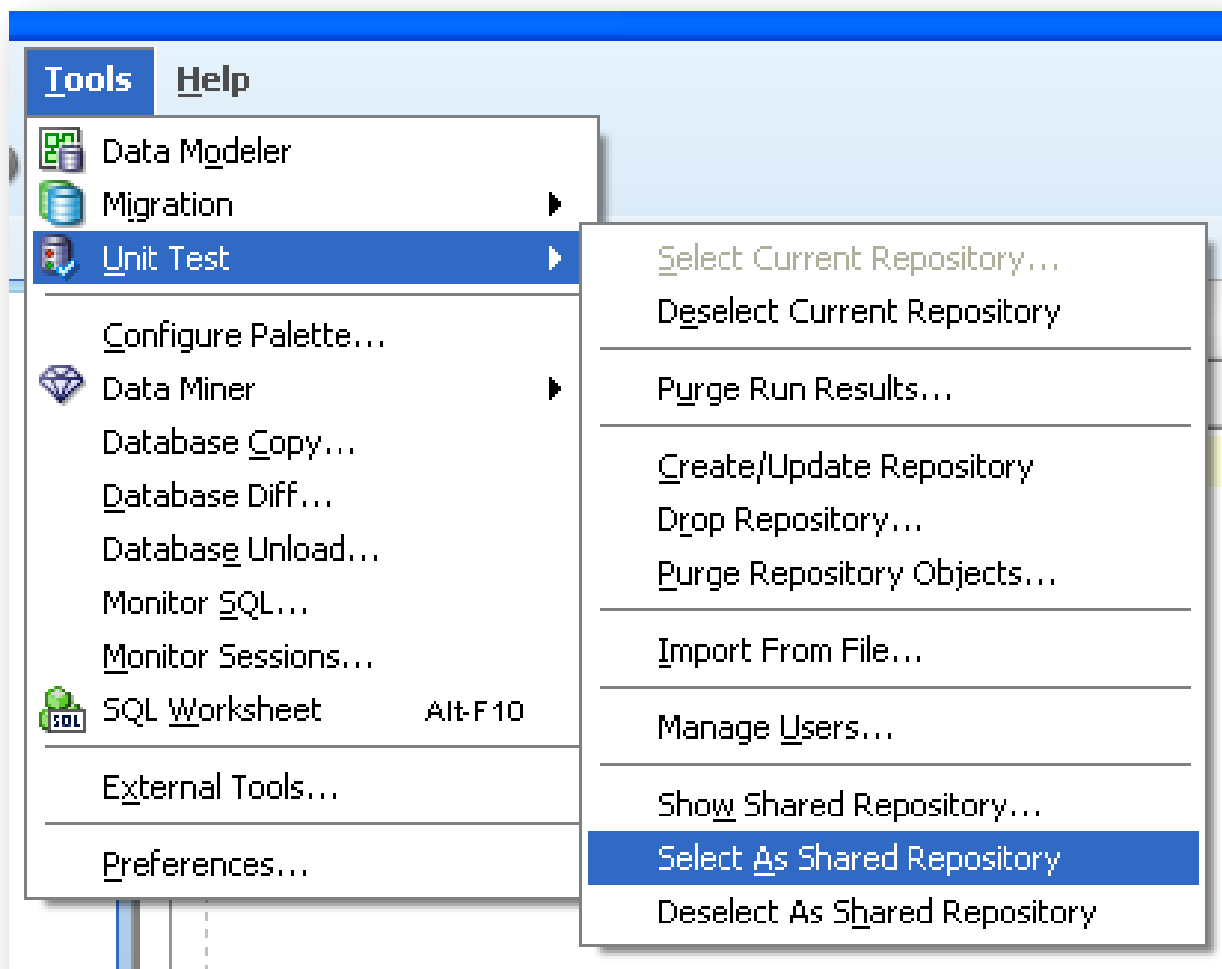
FINDINGS	RECOMMENDATIONS	RATIONALE
Optimizer statistics for table "SYS"."OBJAUTH\$" and its indices are stale.	Consider collecting optimizer statistics for this table.	The optimizer requires up-to-date statistics for the table in order to select a good execution plan.
A potentially better execution plan was found for this statement.	Consider accepting the recommended SQL profile.	This attribute adjusts optimizer estimates.

COMMITTED TO T.C.T. INVOLVED IN PEOPLE.

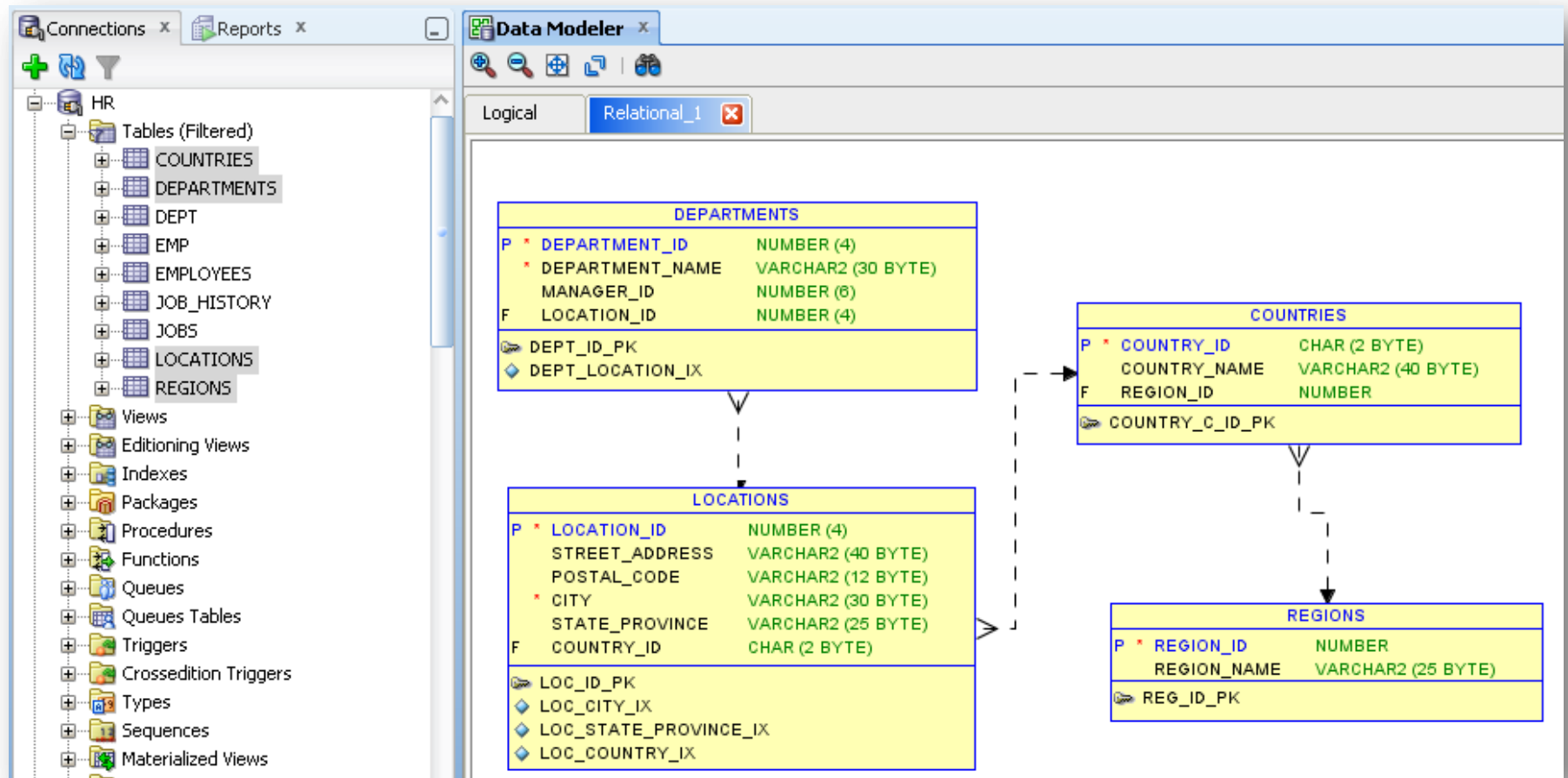








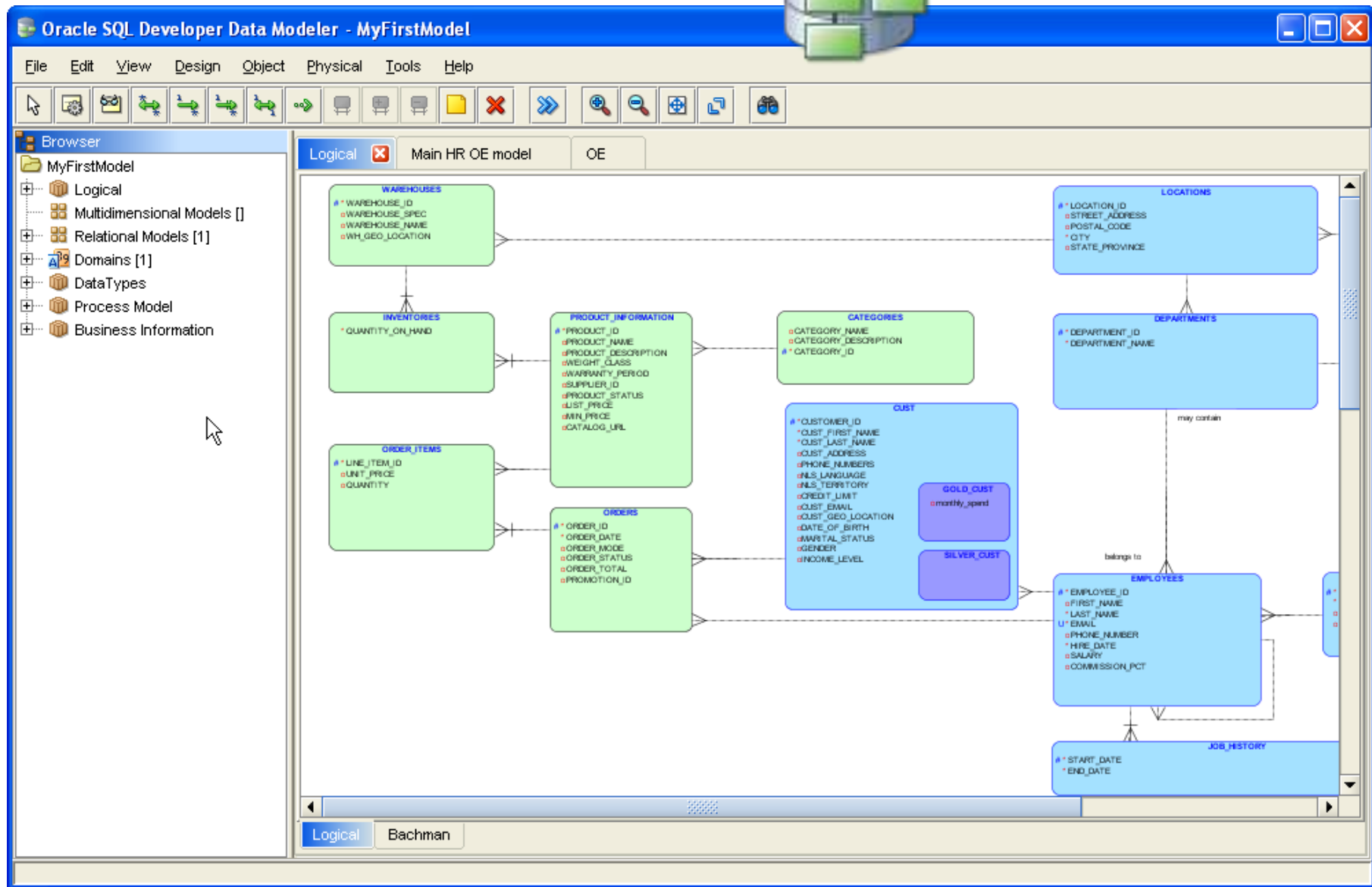






- Database
- SQL Developer
- **SQL Developer Data Modeler**
- APEX







A red rectangular button with the word 'DOWNLOAD' in white, uppercase, sans-serif font.

## Oracle SQL Developer Data Modeler is Now Free

As announced at Oracle OpenWorld, Oracle SQL Developer Data Modeler is now a free and fully supported product, for all users with an Oracle Database license.

Posted 10/1/10 // Tags: database, modeling, sql // [Headlines Archive](#)





## Oracle SQL Developer Data Modeler: Pricing FAQ

Sept 2010

Oracle SQL Developer Data Modeler is one of the database tools in the Oracle Database Tools group. It is an independent, standalone product with a full spectrum of data and database modeling tools and utilities. There is a general FAQ and other supporting collateral on the [Data Modeler](#) home page. This document is to provide some guidance to the pricing related questions arising in the community.

### Is Oracle SQL Developer Data Modeler free?

Yes.

Yes, if you have an Oracle Database license you can contact Oracle Support for assistance. Users are encouraged to log any issues through [Metalink](#).

### Where can I get more information?

Supporting collateral is available on OTN on the [SQL Developer Data Modeler](#) site.





- Database
- SQL Developer
- SQL Developer Data Modeler
- **APEX**





**ORACLE** Application Express

**Release 4.0 is here**





ORACLE® Application Express

**Release 4.0 is here**







ORACLE® Application Express

**Release 4.0 is here**







ORACLE® Application Express

Release 4.0 is here







# Theme 21





## FUSION MIDDELWARE (*SOA SUITE, BPM, WEBLOGIC*)

- **Stabiliseren SOA Platform**
- **Roadmap**
- **SOA Trends**
- **BPM**
- **SOA Governance**





# STABILISEREN SOA PLATFORM

- **Key message: RUST**
- **Duidelijk signaal dat de stack mature en stabiel is geworden**





# ORACLE SOA SUITE DIRECTIONS

We have the most complete stack today

We have the most integrated stack today

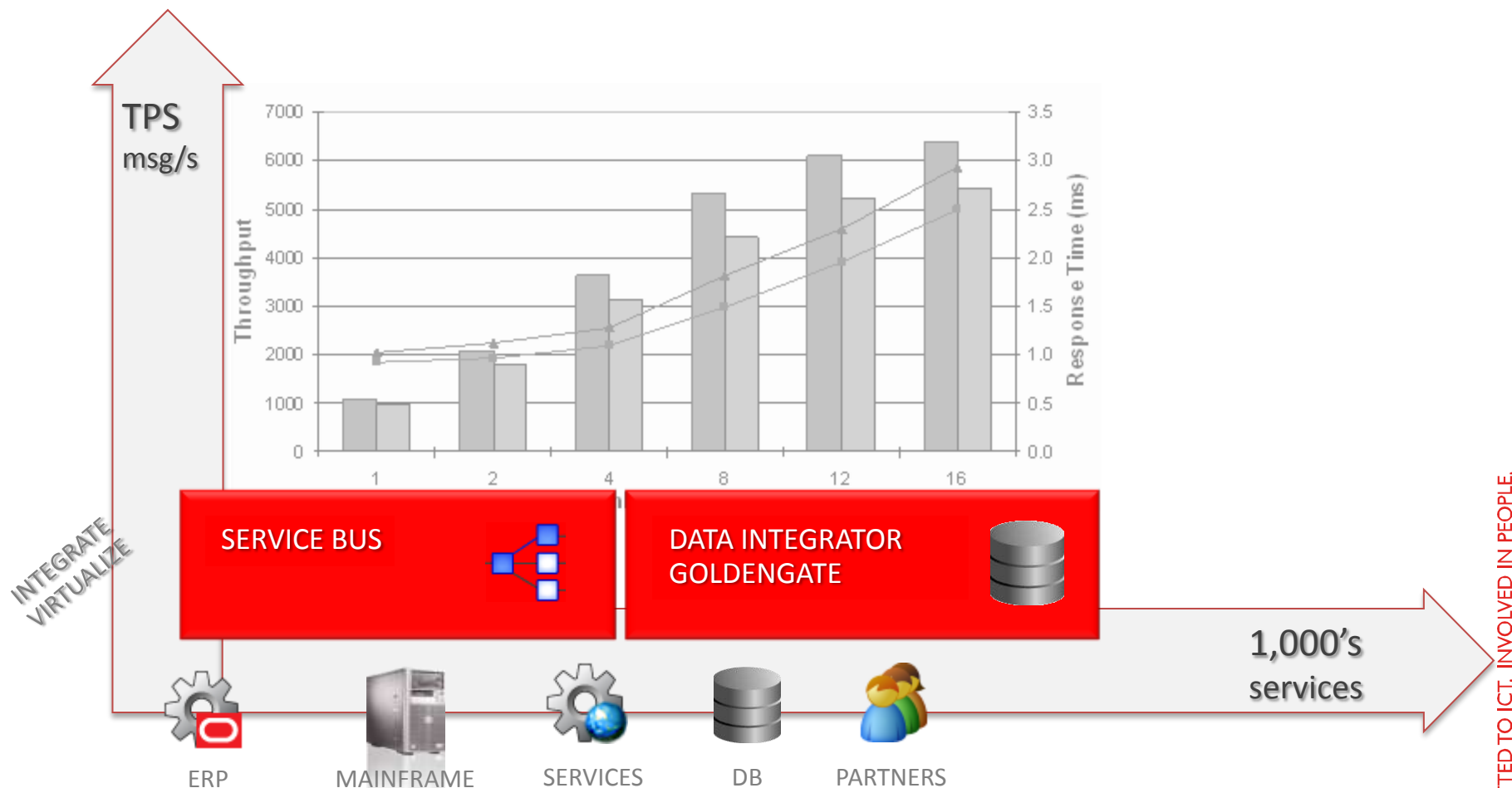
Focus areas:

- no technology disruption from 11g, safe upgrade
- productivity and simplification
- content and ease of apps integration
- pervasive usage of events – front-end, Apps, CEP, SOA
- cloud





# HIGHLY SCALABLE FOUNDATION: ADAPTERS & ENTERPRISE SERVICE BUS







# AGILE ORCHESTRATION: BUILT NATIVELY ON STANDARDS

ORCHESTRATE

BPEL & BPMN  
BUSINESS RULES  
HUMAN WORKFLOW



INTEGRATE  
VIRTUALIZE

SERVICE BUS



DATA INTEGRATOR  
GOLDENGATE



ERP



MAINFRAME



SERVICES



DB



PARTNERS

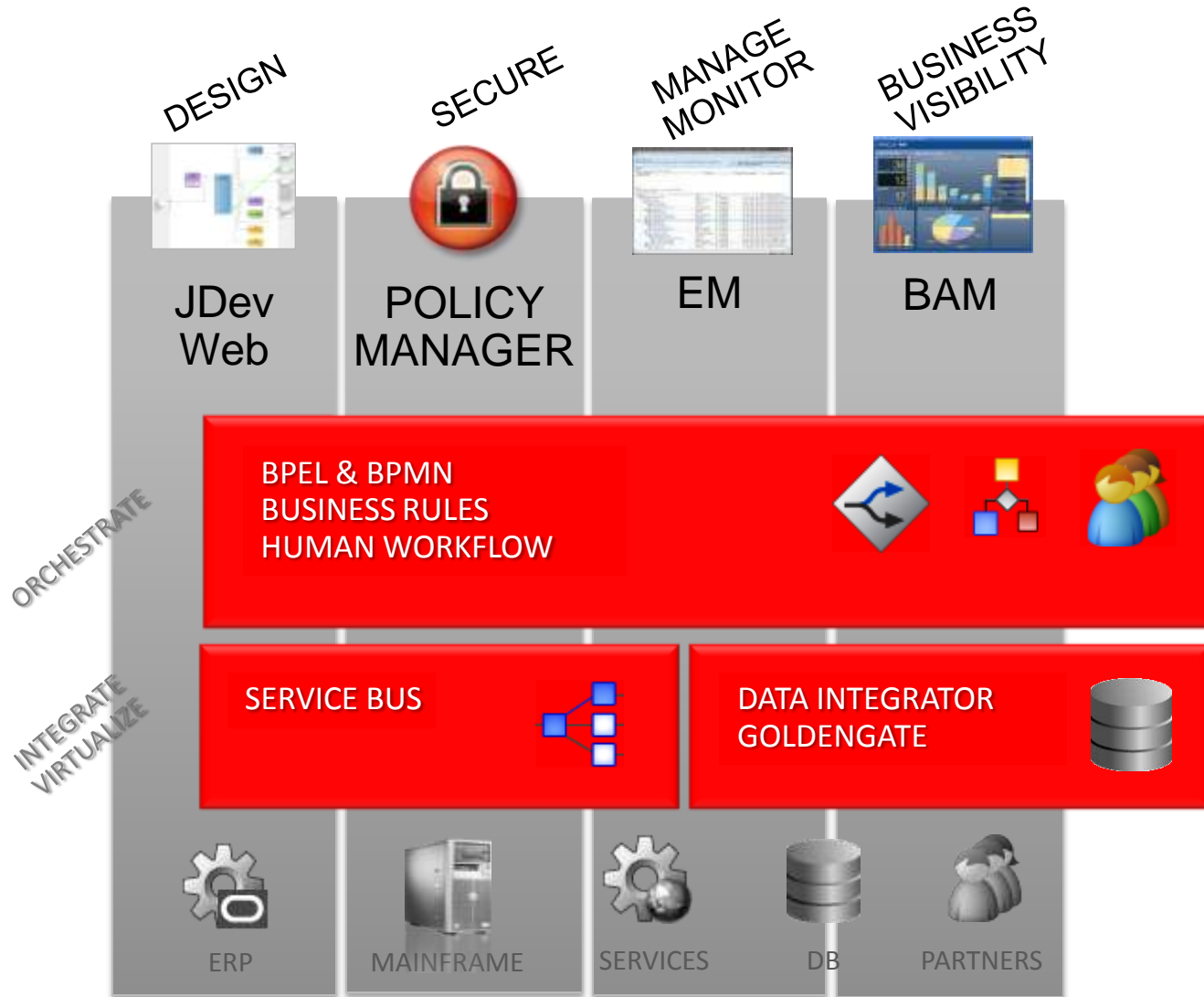


EVENTS





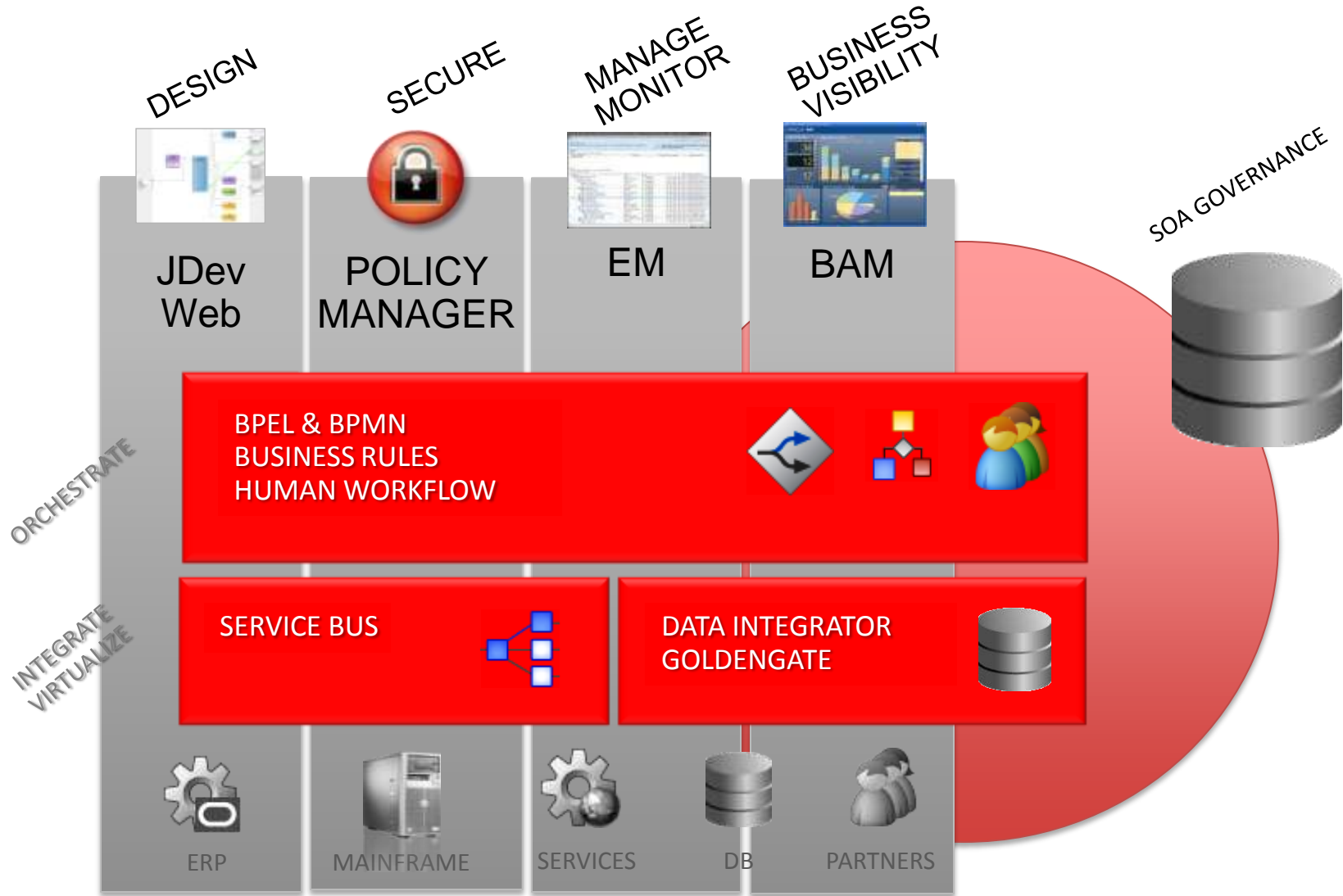
# UNIFIED SECURITY, MANAGEMENT & VISIBILITY







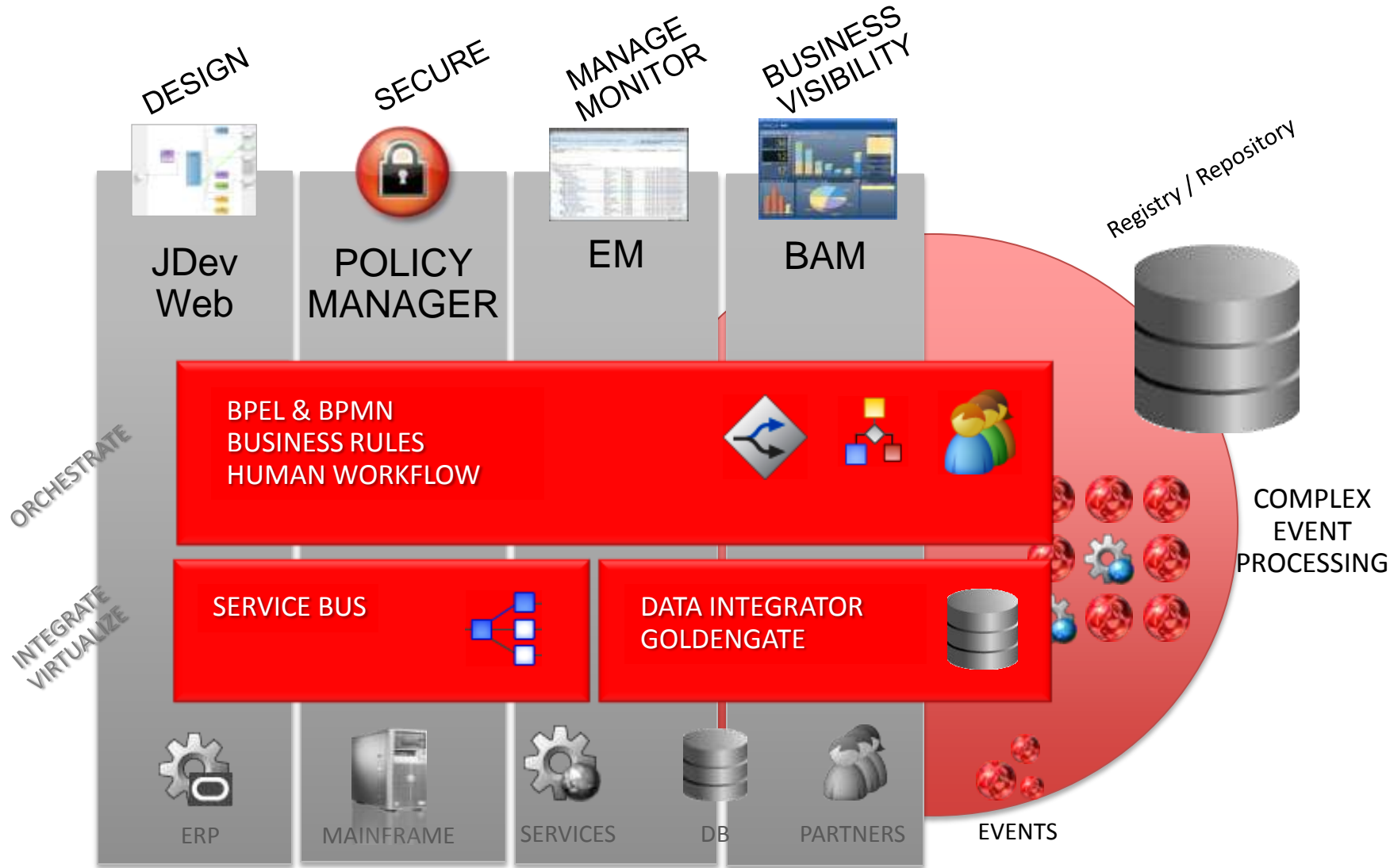
# BUILT-IN GOVERNANCE



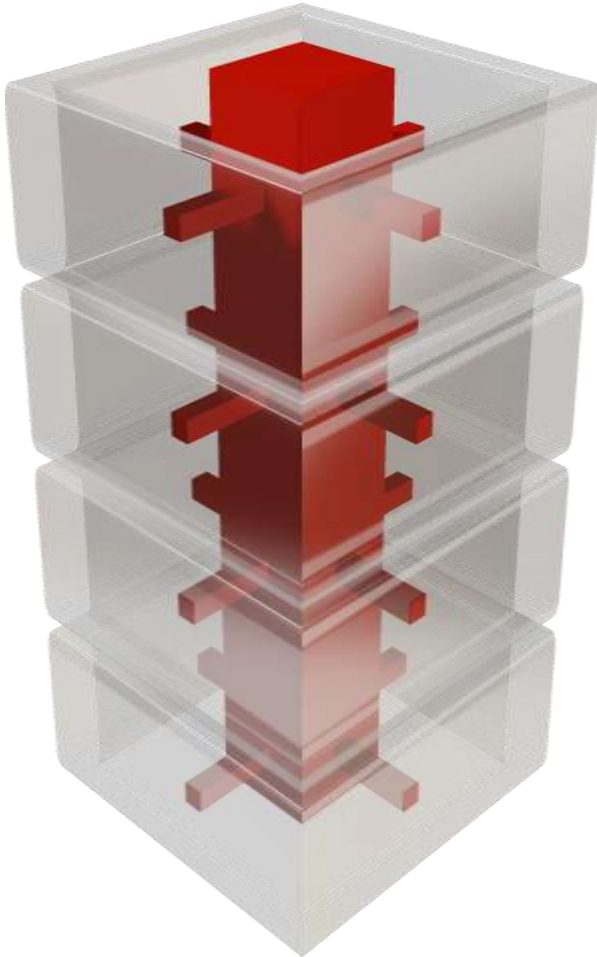




# NATIVE SUPPORT FOR EVENTS



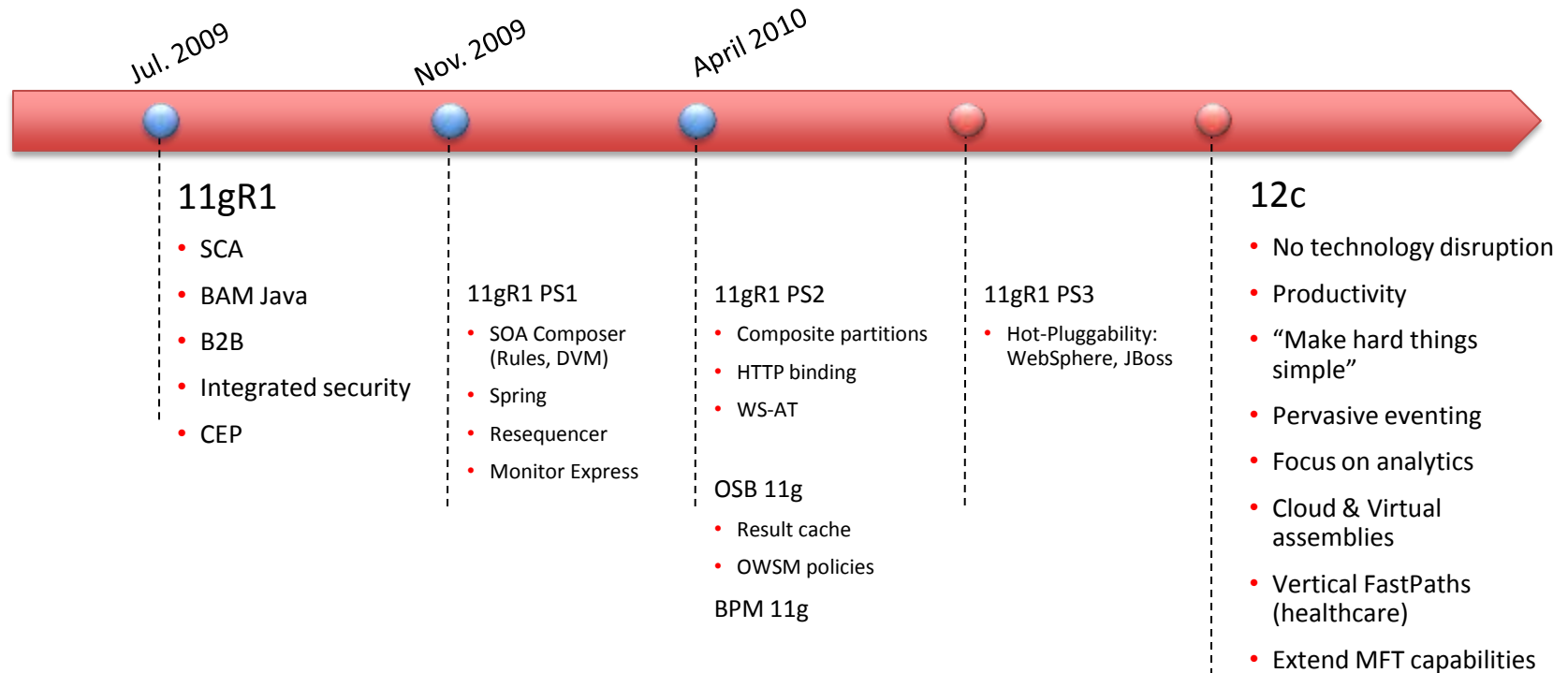




Where are we going?



# SOA Suite Roadmap



- We have the most complete stack today
- We have the most integrated stack today



- **Full BPEL 2.0 support (ook in JDev UI)**
- **develop install met small footprint (met Derby database en SOA Suite op integrated WLS in JDeveloper)**
- **WebSphere support**
- **ADF Human Tasks (more advanced templating)**
- **Single JVM SOA Developer install**
- **Generic Adapter Wizard (for custom JCA Adapters)**
- **Purging improvements**



- **Partitioning op het niveau van de BPEL Domains - met thread control and access/authorization control**





11GR2 = 12C?

*(EIND 2011./BEGIN 2012)*

- **SOA Suite incl OSB running on integrated WLS**
- **OSB will not become Mediator implementation!!**
- **OSB and SOA Suite are two separate tiers**
- **OSB will not be component within SCA fabric, will continue to have separate run time, SCA like but not in SCA runtime**
- **Result Cache feature for SOA Suite**
  - although when OSB 11g is more integrated into SCA Runtime it may not be required
- **EM shows trace through SOA Suite as well as OSB.**
- **Getting rid of Eclipse - OSB and CEP in JDeveloper;**



- **XQuery support in SOA Suite**
- **JBoss support**
- **Geintegreerde debugger**
- **WLS JEE6 compliant**
  
- **SDO => BPEL for long running processes that need data synchronized**
- **Increasing demand and usage of eventing**
  - EDN will be reworked/upgraded
  - EDN used between CEP, OSB and SOA Suite;
  - EDN will be based on SCA eventing



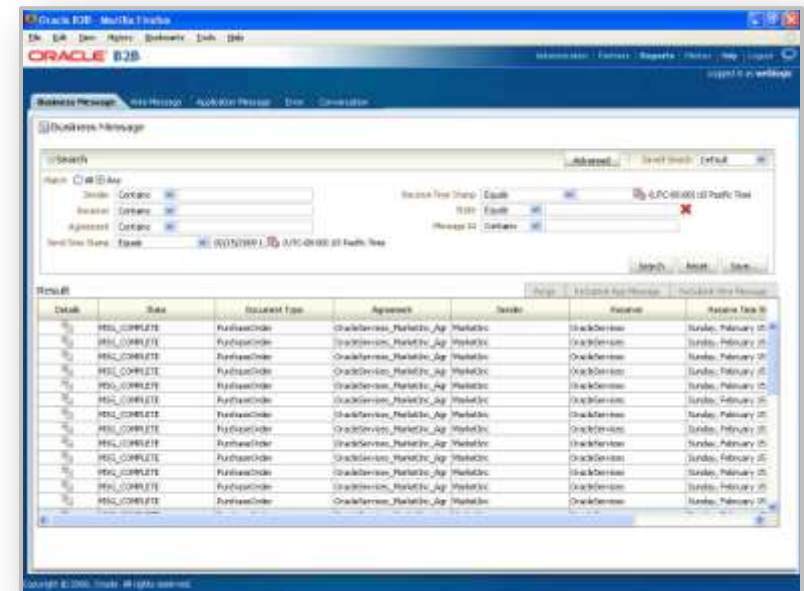
- **B2B modernization & consolidation**
- **Mainstream adoption of eventing**
- **Hardware consolidation & cloud: large, highly reliable multi-core servers**
- **Alignment with BPM**



- B2B has been part of the IT landscape forever
- Still carrying vital role in today's electronic economy
- Little innovation from the traditional B2B vendors

→ Aging, fragmented, expensive and brittle B2B architecture

→ Benefits of consolidation and alignment with modern SOA are huge





# MAINSTREAM ADOPTION OF EVENTING

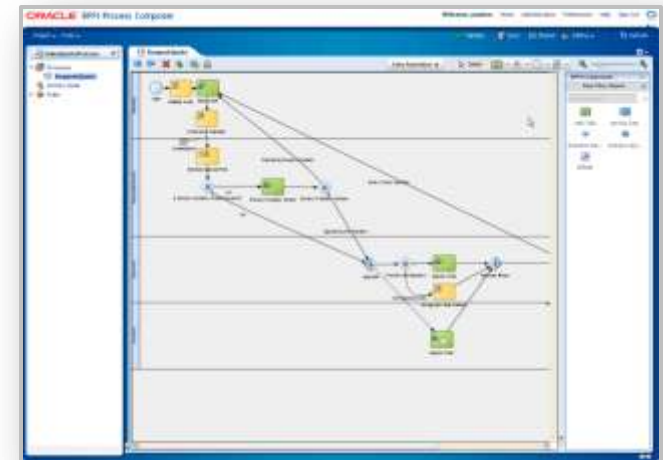
- **Asynchronous messaging (MQ, RV, JMS, ...) was a key component of EAI**
  - **Web-Services have NOT replaced messaging**
- 
- A decorative graphic on the right side of the slide. It consists of a cluster of green, translucent spheres of varying sizes. Some of these spheres are replaced by grey, 3D-style gears, creating a mechanical or technological theme. The graphic is positioned to the right of the main text area.
- **Eventing is finally going mainstream**
  - **Convergence of legacy messaging and WS concepts**
  - **Availability of performant technology for correlating events (CEP)**



- 
- The background features a series of green server racks. On the left, there are four stacks of server units. On the right, there are two larger server cabinets with their doors open, revealing internal components. The racks are arranged in a way that suggests a data center environment.
- **SOA is increasingly mission-critical**
  - **Performance and reliability expectations going up every day**
  - **Boxes are getting bigger**
  - **Virtualization has triggered return to larger servers**
  - **Cloud requires dynamic provisioning**



- **SOA vs BPM, Developers vs Business: not a sustainable model**
  - **SOA platforms not business-friendly**
  - **BPM platforms not IT-friendly (lack of focus on enterprise-grade manageability and performance)**
- Oracle BPM 11g is the industry's first product to bridge the gap
- A single infrastructure to support 2 user communities & modeling styles (Dev + Business)







# ORACLE BPM SUITE 11G LAUNCH

## A MAJOR MILESTONE

Oracle goes **"ALL-IN"** on BPM on a Royal Flush of

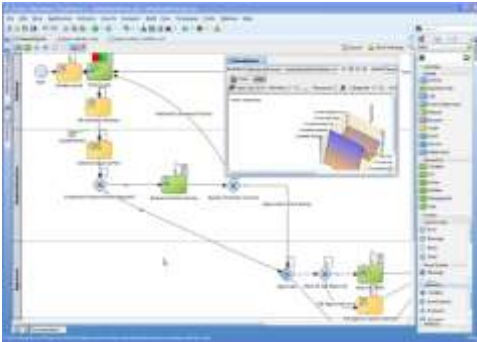
1. Huge R&D investment over the last 2 years to evolve AquaLogic BPM, unify best-in-class features with proven technology stack
2. Product synergies between BPM & other Fusion Middleware products
3. Large sales force now educated, hungry & incented to sell BPM
4. Enormous demand for BPM amongst Oracle customers
5. Customers ready to adopt BPMN 2.0 standard





# BPM STUDIO 11GR1

## EMPOWER BUSINESS TO DRIVE BPM



BPMN Modeling & Simulation



Business Rules



Rich Form Editor



Zero-code

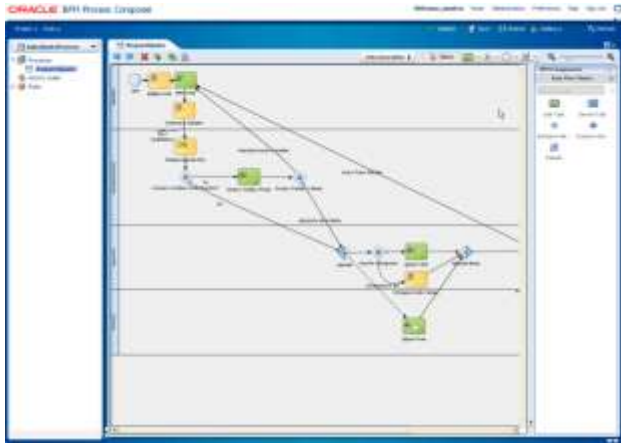
- **Business analyst and developer profiles**
- **Business and IT collaboration via Business Catalog**
- **Comprehensive model types**
- **Leverages standard skill sets**
- **Zero-code**





# PROCESS COMPOSER 11GR1

## EMPOWER BUSINESS TO DRIVE BPM



BPMN Modeling & Customization



Business Rules

- **Web-based design expands use to all of the business**
- **Involve business users in process and rules modeling**
- **Collaborate with all stakeholders leveraging role based access**
- **Customization within specified constraints**
- **Deployment ready changes leveraging business catalog**
- **Approval workflows**



- **BPMN: the B is for business**
  - Business analysts and end users – design time and run time interaction and collaboration
  - Formal BPM approach (for example using BPA)
- **BPEL: execution language**
  - Composite services for technical processes
  - Leverage asynchronous and correlation capabilities as well as XML manipulation and Compensation Handling
  - BPEL will frequently be invoked from BPM, not vv.
  - (more a developer's tool for implementations)
- **Note: BPEL and BPMN are more or less equivalent in terms of execution of processes**



- Focus on Business Process and Workflow is key for efficiency and agility, control and insight
- BPM can involve business analysts and end users alongside developers for model, simulation and test
  - Collaborate on executable business process models
- Run time tools (Process Composer, BPM Process Workspace and Process Spaces)
  - Collaboration, design time@run time, tracking & admin
- BPM(N) and BPEL are similar yet different
  - When Business is involved (and you have the license): BPM



- Naarmate SOA meer “gemeengoed” wordt, wordt ook de behoefte aan “SOA Governance” groter
- Oracle’s voornaamste producten op dit gebied zijn de “Oracle Service Registry” (UDDI), en de “Oracle Enterprise Repository”
- Met name de laatste component is het product waar de hoop (qua governance) op gevestigd is





# Oracle Enterprise Repository, Demo

ORACLE Enterprise Repository

[Repository Request](#) | [Help](#) | [About Oracle Enterprise Repository](#)



[Assets](#) [Projects](#) [My Stuff](#) [Reports](#)

## Assets

[Submit an Asset](#)

### Search

Enter Search String [?]

sales lead

Type

All Types

Registration Status

Registered

Asset Function

All Asset Functions

[More Search Options](#)

Search

### Saved Searches

Select a Saved Search

Run Saved Search

[Browse](#)

## SOA Governance Starts Here

SOA Governance provides control and manageability of SOA -- tracing the relationships from business processes to services and other assets in the enterprise and showing how the lifecycle management of these elements has a direct impact on the effectiveness of the business itself. Oracle's SOA Governance solution provides the following value to customers:

- Visibility into all SOA assets and their relationships to eliminate redundancy, promote reuse, and manage impact of change
- End-to-end governance of the SOA lifecycle for risk reduction through automated, repeatable process
- Analytics providing insight into the business value of SOA for better decision making

**Right from the Start: SOA Lifecycle Governance**  
This paper explains why effective SOA governance throughout the SOA lifecycle can help your organization achieve measurable, sustainable business value from SOA.

**Blog: Governance, Reuse, SOA and more**  
Opinion, advice, and community discussion on these and other important issues.



[Enlarge](#)

## Information Resources

### SOA Resource Center

The surest way to a fast, successful SOA implementation.

### Oracle SOA Suite

Service Infrastructure for managing SOAs in heterogeneous IT environments.

### Oracle SOA Governance

Comprehensive, end-to-end governance solution for ensuring the success of your SOA.

### Hot Assets

No assets have been deployed yet.

### High Interest

- Fusion PPM to AU PPM
- Primavera Adapter Service
- Inbound Sales Order Processing

### Newly Registered Assets

- Employee SEBL
- Partner SEBL
- Item WBIT
- Product Group WBIT
- Geography Zone WBIT

### Reuse Champs

No assets have been deployed yet.

### Popular Searches

- sales lead
- Sales Lead
- sales leads
- coexistence
- lead

### Community Resources

- Oracle Technology Network





# Oracle Enterprise Repository, Demo

ORACLE Enterprise Repository

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[Assets](#) [Projects](#) [My Stuff](#) [Reports](#)

[Assets](#)

[Submit an Asset](#)

[Search](#)

Enter Search String [\(?\)](#)

sales lead

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[More Search Options](#)

[Search](#)

[Saved Searches](#)

Select a Saved Search

[Run Saved Search](#)

[Browse](#)

[Export to PDF](#) [Go](#)

[Save This Search](#) Results (2 of 2)

<input type="checkbox"/>	Name	Version	Type	Status
<input type="checkbox"/>	Sales Lead		FusionApps: ADF Service v2	Registered
<input type="checkbox"/>	Sales Lead WBIT		FusionApps: Web Based Import Tool File	Registered

FusionApps: ADF Service v2: **Sales Lead**



[Detail](#)

**Operations:**

Method Name	Description	Parameters	Asynch												
getMklLeadResources		<table><tr><th>Parameter Name</th><th>Description</th><th>Is Return</th><th>Type</th></tr><tr><td>leadResourceId</td><td></td><td>no</td><td>java.lang.Long</td></tr><tr><td>return</td><td></td><td>yes</td><td>oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources</td></tr></table>	Parameter Name	Description	Is Return	Type	leadResourceId		no	java.lang.Long	return		yes	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources	getMkl
Parameter Name	Description	Is Return	Type												
leadResourceId		no	java.lang.Long												
return		yes	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources												
createMklLeadResources		<table><tr><th>Parameter Name</th><th>Description</th><th>Is Return</th><th>Type</th></tr><tr><td>mklLeadResourcesVO</td><td></td><td>no</td><td>oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources</td></tr><tr><td>return</td><td></td><td>yes</td><td>oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources</td></tr></table>	Parameter Name	Description	Is Return	Type	mklLeadResourcesVO		no	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources	return		yes	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources	create
Parameter Name	Description	Is Return	Type												
mklLeadResourcesVO		no	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources												
return		yes	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources												
updateMklLeadResources		<table><tr><th>Parameter Name</th><th>Description</th><th>Is Return</th><th>Type</th></tr><tr><td>mklLeadResourcesVO</td><td></td><td>no</td><td>oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources</td></tr><tr><td>return</td><td></td><td>yes</td><td>oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources</td></tr></table>	Parameter Name	Description	Is Return	Type	mklLeadResourcesVO		no	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources	return		yes	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources	update
Parameter Name	Description	Is Return	Type												
mklLeadResourcesVO		no	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources												
return		yes	oracle.apps.marketing.leadMgmt.leads.leadService.MklLeadResources												





# Oracle Enterprise Repository, Demo

ORACLE Enterprise Repository

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[Assets](#) [Projects](#) [My Stuff](#) [Reports](#)

Assets

[Submit an Asset](#)

Search

Enter Search String [?](#)

Type

FusionApps: Event

EBS: Interface Tab...

EBS: PL/SQL API

Endpoint

Environment

Framework

Fusion: Integratio...

FusionApps: ADF Se...

FusionApps: ADF Se...

FusionApps: ADF Se...

FusionApps: Compos...

FusionApps: Compos...

FusionApps: Event

FusionApps: Interf...

FusionApps: Web Ba...

Interface

Pattern

PeopleSoft: File L...

PeopleSoft: WebSer...

Primavera: WebServ...

Procedure

Scenario Documenta...

Service

Siebel : Webservic...

Siebel: Event

Siebel: Interface ...

Siebel: Table

SOA - Business Ent...

Test Documentation

Training

Transport Adapter

Export to PDF [Go](#)

[Save This Search](#) Results (8 of 8)

<input type="checkbox"/>	Name	Version	Type	Status
<input type="checkbox"/>	Orchestration Order Line Closed Event		FusionApps: Event	Registered
<input type="checkbox"/>	Orchestration Order Status Change Event		FusionApps: Event	Registered
<input type="checkbox"/>	Project Accounting Calendar Requested		FusionApps: Event	Registered
<input type="checkbox"/>	Project Billing Event Completed		FusionApps: Event	Registered
<input type="checkbox"/>	Project Costs Requested		FusionApps: Event	Registered
<input type="checkbox"/>	Project Plan Updated		FusionApps: Event	Registered
<input type="checkbox"/>	Project Planning Resources Requested		FusionApps: Event	Registered
<input type="checkbox"/>	Projects, Project Tasks and Project Billing Events Requested		FusionApps: Event	Registered

FusionApps: Event: **Orchestration Order Line Closed Event**



[Subscribe](#) [Use - Download](#)

Overview

## Orchestration Order Line Closed Event

### Description:

Orchestration Order Line Closed Event provides ability for order capture systems and Fusion Costing application to subscribe for Orchestration Order close event and use get order detail service to pull corresponding fulfillment details

**Registration Status:** Registered

**Internal Name:** {/oracle/apps/scm/doo/processOrder/model/entity/events/edl/FulfillLineEO}DOOFulfillLineClosed

**Lifecycle:** Active

**Compatibility:** Supported - Not Backward Compatibility Assured

**Payload Type:** {/oracle/apps/scm/doo/processOrder/model/entity/events/schema/FulfillLineEO}DOOFulfillLineClosedInfo

### Files:

File Name	File Type
FulfillLineEO.edl	Business Event
FulfillLineEO.xsd	XML Schema Definition

Reviews

No Reviews Posted

[Submit A Review](#)





# Oracle Enterprise Repository, Demo

**ORACLE** Enterprise Repository

Repository Request | Help | About Oracle Enterprise Repository

Assets Projects My Stuff Reports

**Assets**

Submit an Asset

Search

Saved Searches

Select a Saved Search

Run Saved Search

Browse Tree

Oracle CoExistence S... Registered

- Home
- Fusion A/C Hub to AU Financials
- Fusion DDO to AU Order Entry/Fulfillment
- AIA
- eBusiness Suite
- Siebel
- Fusion Employee Portrait to AU HR
- Fusion Incentive Comp to AU CRM
- Fusion PPM to AU PPM
- Fusion Procure-to-Pay to AU GL
- Fusion Sales Performance Management to
- Fusion Spend Analysis, Sourcing and Contr
- Fusion Talent Mgt On Demand to AU HCM

Export to PDF Go Save This Search Results (8 of 8)

Name	Version Type	Status
Get Orchestration Order Detail Composite	FusionApps: Composite	Registered
Get Orchestration Order Detail Service	FusionApps: Composite Service	Registered
Get Sales Order Availability Service	FusionApps: Composite Service	Registered
Orchestration Order Line Closed Event	FusionApps: Event	Registered
Orchestration Order Status Change Event	FusionApps: Event	Registered
Order Capture to Order Fulfillment Scenario	Scenario Documentation	Registered
Receive and Transform Sales Order Composite	FusionApps: Composite	Registered
Receive and Transform Sales Order Service	FusionApps: Composite Service	Registered

**FusionApps: Composite: Get Orchestration Order Detail Composite**

Subscribe Use - Download

**Overview**

**Get Orchestration Order Detail Composite**

**Description:**  
Get Orchestration Order Detail Service Provides the ability for Order Capture Systems to retrieve and view fulfillment order details, status ad orchestration plan details

**Registration Status:** Registered

**Internal Name:** DooDecompOrderDetailSvcComposite

**Files:**

File Type	File Name
Composite XML	composite.xml

**SAR Location:** APPL\_TOP/scm/deploy/sca\_DooDecompOrderDetailSvcComposite\_rev1.0.jar

**Reviews**

No Reviews Posted

Submit A Review



- **Vorig jaar tijdens OOW was de OER al beschikbaar. Sindsdien:**
  - Is de integratie met JDeveloper wat beter
  - Zijn er wat SOA-specifieke features bij gekomen (OER is niet specifiek voor SOA ontworpen)
- **Over het algemeen: teleurstellend**



- Zeer “tool georiënteerde” aanpak, nauwelijks consideratie voor hoe deze tool in het proces van Software Engineering moet worden ingepast.
- “Assets” die in SOA omgeving “geharvest” worden zijn ontzettend technisch (endpoints, events, schema’s, WSDL’s). Er zijn geen hogere abstractie niveau’s
- Heel moeilijk om te bedenken wie er in staat zou zijn de Assets in de OER te classificeren en beheren.









# **ADF EMG - THE IMPORTANCE OF BEING AUTOMATED**

Sunday, September 19, 14:00 | Moscone West, R3012

## **S313467 - WEBSERVICE BASED BUSINESS COMPONENTS**

Monday, September 20, 10:00 | Hotel Nikko, Monterey I / II

## **S319117 - ADF BUILD PROCESS USING MAVEN AND HUDSON**

Thursday, September 23, 11:00 | Hotel Nikko, Peninsula





September 19 - 25, 2010

	19 Sunday	20 Monday	21 Tuesday	22 Wednesday	23 Thursday
	OOW & JavaOne				
				Anna Luna	
8 <sup>00</sup>			Enabling Application Lifecycle Management and Process in Hotel Nikko, Carmel	Keynote - Ted Farrell Hilton San Francisco, Grand Ballroom AB	
9 <sup>00</sup>					JavaOne KeyNote Moscone North, Hall D
10 <sup>00</sup>	registratie Moscone	S319117 - Web-Service-Based Oracle ADF Business Monterey I / II - Hotel Nikko	Getting More from Your CI Server: Taking Hudson to the Parc 55, Cyril Magnin I	EMG Unconference Hotel Parc 55 - 3rd floor, Mason	
11 <sup>00</sup>					OOW sessie Room Peninsula - Hotel Nikko
12 <sup>00</sup>	Registratie Hilton	Mastering Customization and Personalization in Oracle ADF Monday, September 20, 11:30   Ho	Choosing the Right NoSQL Database - Tobias Ivarsson Hilton San Francisco, Yosemite B	Skinning Hands-on Hilton San Fran	
13 <sup>00</sup>	Web architecture Moscone - Room 2014	Hudson Hackat	Five Things You Should Know When Developing Products with Hotel Nikko, Golden Gate	Service Lifecycle Governance with Oracle Service Bus and Oracle Hotel Nikko, Nikko Ballroom III	Creating Great-Looking Hotel Nikko, Per
14 <sup>00</sup>		S313445 - EMG Sessie Moscone West			Shay Schmeltze
15 <sup>00</sup>		Maven 3.x: The Evolution of Enterprise Java Build Parc 55, Market Street	Total Oracle WebLogic Server Development with Eclipse, Hilton San Francisco, Imperial Ball		Oracle JHeadstart - Steven Davelaar Hotel Nikko, Peninsula
16 <sup>00</sup>				Keynote - Larry Ellison Moscone North, Hall D	Oracle Fusion Middleware Extensions and Patterns for Hotel Nikko, Carmel
17 <sup>00</sup>		Developin Large Hotel Nikk	Extreme Java Hilton Sar	Keynote - Thomas Kyte Hilton San Francisco, Grand Ballroom AB	Deploying Applications to Hotel Nikko, Cai
18 <sup>00</sup>		Meet and greet the Mason ter			Afsluiting Event Yerba Buena Garden
19 <sup>00</sup>		JavaOne KeyNote - Thomas Kurian, Moscone	ODTUG borrelen Thirsty Bear - 661 Howard		
20 <sup>00</sup>	JavaOne Welcome Reception Hilton Ballroom - Mason	Welcome reception Yerba Buena Garden	OTN Live Yerna Buena Gardens	Presentatie voorbereiding	
21 <sup>00</sup>		Glassfish welcome event thirstybea - 661 Howard Street	Benelux Happy Hour Restaurant Lulu, Folsom		
22 <sup>00</sup>			Benelux Cocktail Party Ruby Skye Club, 420 Mason Street	OOW Appreciation event Treasure Island	
23 <sup>00</sup>					





JAVAONE + DEVELOP: JAVAONE (370)
Core Java Platform (53)
Desktop Java (37)
Enterprise Service Architectures and the Cloud (53)
Java EE Web Profile and Platform Technologies (83)
Java for Devices, Card, and TV (28)
Java ME and Mobile (38)
JavaFX and Rich User Experience (30)
Student Sessions (6)
The Java Frontier (42)

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Oracle Keynotes (7)
JavaOne Keynote (3)
Oracle Develop Keynotes (4)
Executive Solution Sessions (9)
General Sessions (37)
Partner Keynotes (3)

#### OPENWORLD: MYSQL SUNDAY (18)

#### OPENWORLD: MIDDLEWARE (239)

JAVAONE + DEVELOP: ORACLE DEVELOP (192)
.NET (9)
Application Grid and Oracle WebLogic (26)
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Oracle Solaris and Linux Development (7)
Rich Enterprise Applications (8)
Service-Oriented Architecture (31)

#### OPENWORLD: APPLICATIONS (802)

#### OPENWORLD: INDUSTRIES (215)

#### OPENWORLD: DATABASE (247)

#### OPENWORLD: SERVER AND STORAGE SYSTEMS (95)





# "I Am the Future of Java"





**2011 Java 7**

**2012 Java 8**



OpenJDK



- **Oracle is currently working to merge the Oracle Java HotSpot Java Virtual Machine (JVM) and the Oracle JRockit JVM into a converged offering that leverages the best features of each of these market-leading implementations.**
- **Oracle plans to contribute the results of the combined Oracle Java HotSpot and Oracle JRockit JVMs to the OpenJDK project.**
- **The Oracle JDK and Java Runtime Environment (JRE) will continue to be available as free downloads, with no changes to the existing licensing models.**
- **Premium offerings such as JRockit Mission Control, JRockit Real Time, Java for Business and Enterprise Support will continue to be made available for an additional charge.**



- **InvokeDynamic byte code and supporting features for dynamic languages**
- **Fork/Join Framework and related concurrency and collections API enhancements for improved multi-threaded Java code**
- **Small Language Enhancements (most of “Project Coin”) for higher developer productivity and cleaner, more concise Java code**
- **Session Description Protocol (SDP) and Stream Control Transport Protocol (SCTP) support**
- **New I/O APIs – A flexible filesystem API, and asynchronous I/O**
- **Support for updated standards - Unicode, localization, security, cryptography, XML and JDBC**
- **JVM performance improvements**



- **Lambda expressions (“closures”) for higher developer productivity and better leveraging of multi-core CPUs**
- **Small language enhancements (Remaining parts of “Project Coin”)**
- **A Java-native module system (“Project Jigsaw”) to simplify the construction, packaging, and deployment of applications**
- **JVM start-up time and ergonomics improvements**



**But wait, there is more ...**





2011



**2 New NetBeans Releases**



**2 New GlassFish Releases**



**And more...**

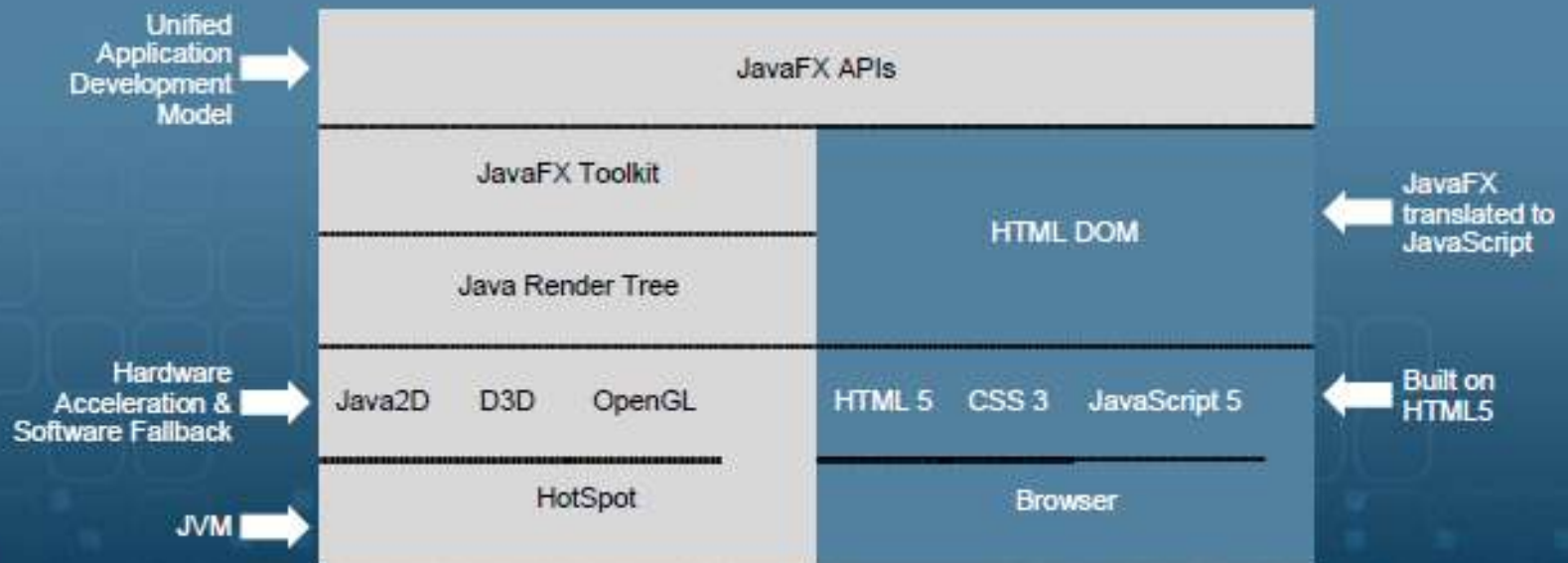




- **Make JavaFX UI controls available in Open Source**
- **New JavaFx API**
- **Project Java Mobile.Next**
- **Integration of Web Technologies**
- **New Device APIs to Access to HW & OS Features**
- **Small Footprint**
- **High preformance graphics engine**
- **Project Verrazano**
  - For now it is a research project (it takes a JAR and a platform spec, modularizes the classes themselves to reduce their code size to an optimal one)
- ...



## Java: Client Architecture







## Java: Embedded



**ORACLE**



- **Several new APIs**
- **Web Profile**
- **Pluggability/extensibility**
- **Dependency injection**
- **Lots of improvements to existing APIs**





- **Spring Roo is a lightweight developer tool that makes it fast and easy to deliver instant results. Best of all, you code 100% in Java and get to reuse all your existing Java knowledge, skills and experience. You'll like it - and have plenty of fun too!**





## Latin America 2010

December 7–9, 2010

## Russia 2011

H1 – Dates TBD

## Beijing 2010

December 13–16, 2010
























## India 2011

H1 – Dates TBD



# NOSQL



	Choosing the Right <b>NoSQL</b> Database	
★★★★★	- <a href="#">click stars to rate</a>	
Tobias Ivarsson	Sep-21-2010	Conference Session
Duration: 01:00:00	<a href="#">Info</a>	   
<a href="#">Comments (3)</a>	<a href="#">Related Resources (0)</a>	
Session: <a href="#">Choosing the Right NoSQL Database</a>		
	<b>NoSQL</b> Alternatives: Principles and Patterns for Building Scalable Applications	
★★★★★	- <a href="#">click stars to rate</a>	
Uri Cohen, Nati Shalom	Sep-21-2010	Conference Session
Duration: 01:00:00	<a href="#">Info</a>	   
<a href="#">Comments (0)</a>	<a href="#">Related Resources (0)</a>	
Session: <a href="#">NoSQL Alternatives: Principles and Patterns for Building Scalable Applications</a>		
	Neo4j: A NoSQL Graph Database for the Java Virtual Machine - <i>Coming Soon</i>	
★★★★★	- <a href="#">click stars to rate</a>	
Emil Eifrem	Sep-22-2010	Session
Duration: 00:45:00	<a href="#">Info</a>	
<a href="#">Comments (0)</a>	<a href="#">Related Resources (0)</a>	
Session: <a href="#">Neo4j: A NoSQL Graph Database for the Java Virtual Machine</a>		
	SomeSQL: Combining <b>NoSQL</b> Technologies with Existing RDBMS Architectures	
★★★★★	- <a href="#">click stars to rate</a>	
Joshua Tuberville	Sep-23-2010	Conference Session
Duration: 01:00:00	<a href="#">Info</a>	 
<a href="#">Comments (1)</a>	<a href="#">Related Resources (0)</a>	
Session: <a href="#">SomeSQL: Combining NoSQL Technologies with Existing RDBMS Architectures</a>		
	How Java Enabled Bejeweled Blitz to Serve More Than 1 Billion Games a Week	
★★★★★	- <a href="#">click stars to rate</a>	
Todd English	Sep-23-2010	Conference Session
Duration: 01:00:00	<a href="#">Info</a>	   
<a href="#">Comments (0)</a>	<a href="#">Related Resources (0)</a>	
Session: <a href="#">How Java Enabled Bejeweled Blitz to Serve More Than 1 Billion Games a Week</a>		
	Building Highly Scalable and Available Applications with Java on Windows Azure	
★★★★★	- <a href="#">click stars to rate</a>	
David Chou	Sep-21-2010	Conference Session
Duration: 01:00:00	<a href="#">Info</a>	 
<a href="#">Comments (0)</a>	<a href="#">Related Resources (0)</a>	
Session: <a href="#">Building Highly Scalable and Available Applications with Java on Windows Azure</a>		
	Hadoop vs. Relational Database: Shout-out Between a Java Guy and a Database Guy - <i>Coming Soon</i>	
★★★★★	- <a href="#">click stars to rate</a>	
Karthik Shyamsunder, Chethan Thippeswamy	Sep-22-2010	Session
Duration: 00:45:00	<a href="#">Info</a>	
<a href="#">Comments (0)</a>	<a href="#">Related Resources (0)</a>	
Session: <a href="#">Hadoop vs. Relational Database: Shout-out Between a Java Guy and a Database Guy</a>		



# ADF 11g - Star of the show

SHOWING 1 - 25 OF 53 | PAGE: 1 2 3

JAVAONE + DEVELOP: ORACLE  
DEVELOP (192)

.NET (9)

Application Grid and Oracle  
WebLogic (26)

Database Development (82)

Oracle Fusion Development (29)

Oracle Solaris and Linux  
Development (7)

Rich Enterprise Applications (8)

Service-Oriented Architecture (31)

**Dé front end voor Fusion Applications**

**en voor alle andere Oracle UIs: Enterprise Manager,  
BIEE, UCM, Identity Management, BPM**





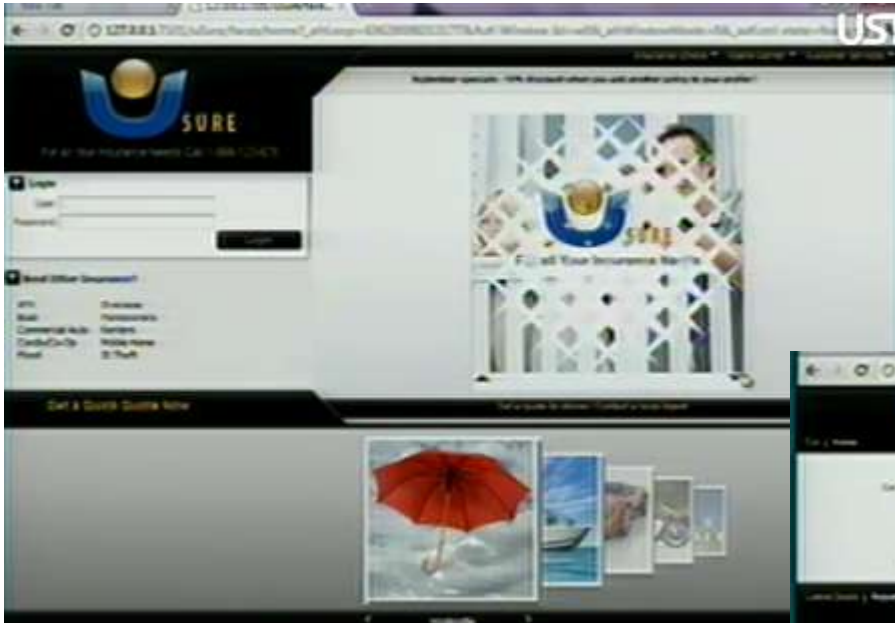
# Car Insurance Company

- ADF Web Application for Car Driver with damage to report
- ADF Native Mobile App for Damage Inspector on the road
- ADF di (Excel) for Claims controller working (disconnected) in the train





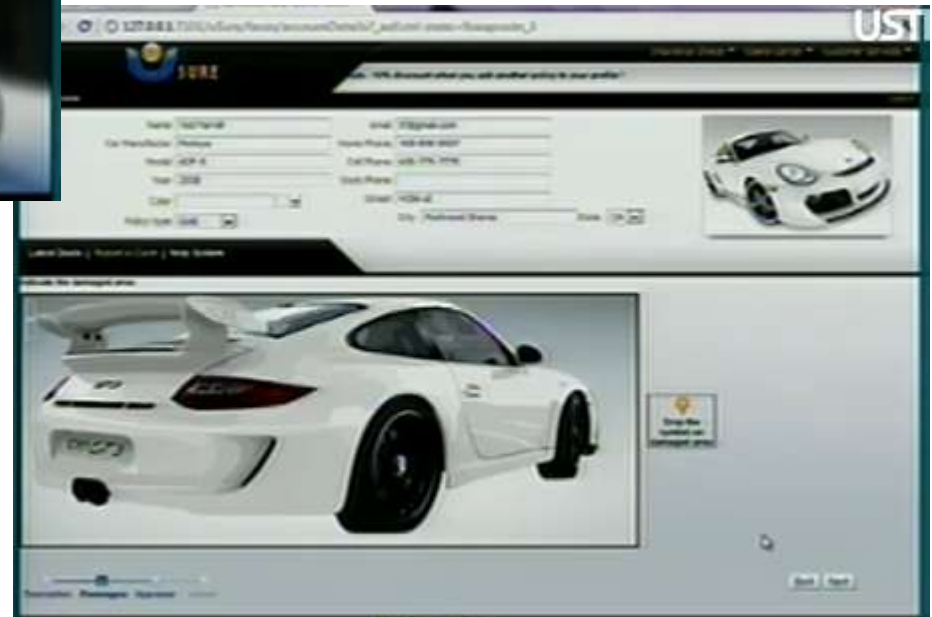
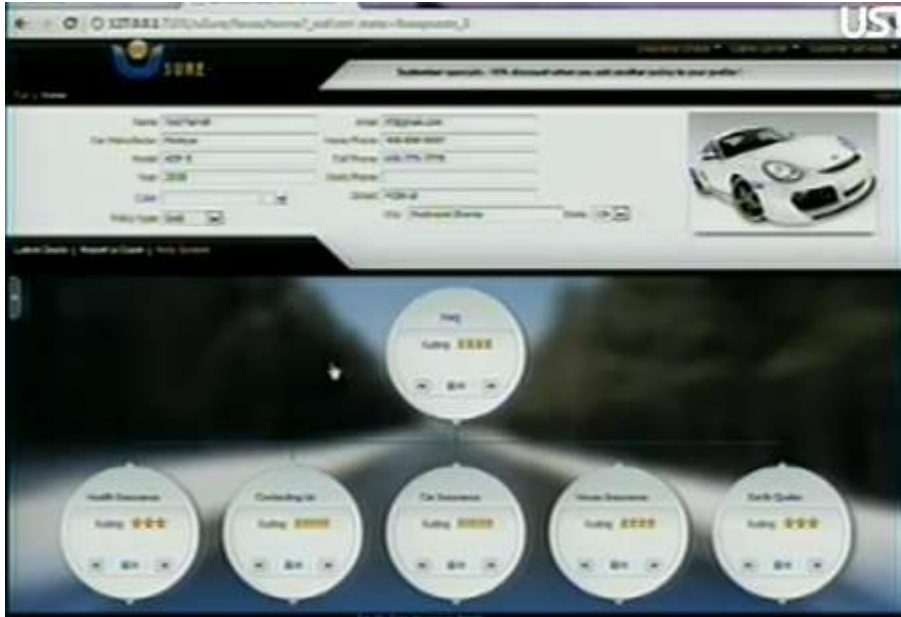
# BROWSER: REPORT DAMAGE CLAIM



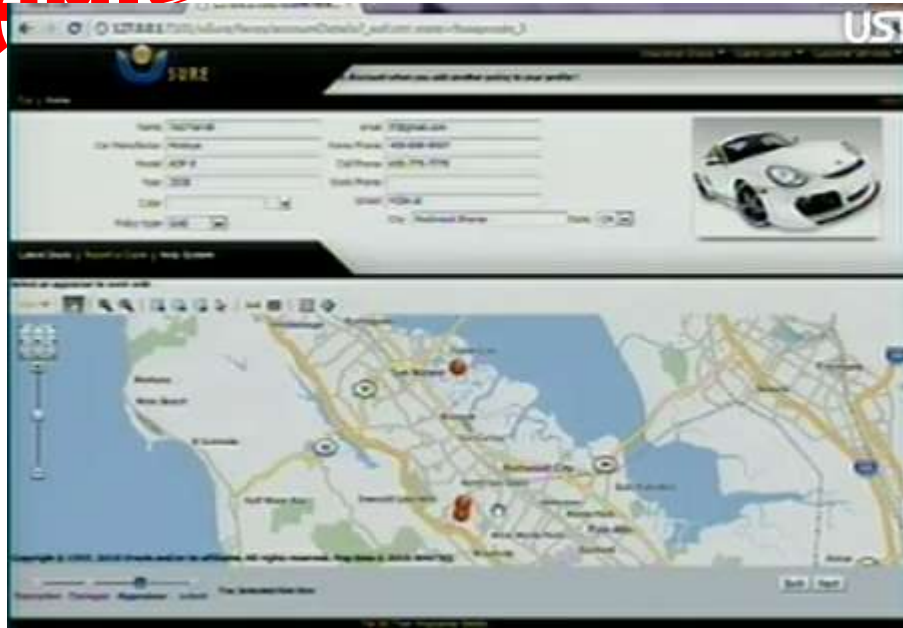




# BROWSER: REPORT DAMAGE CLAIM



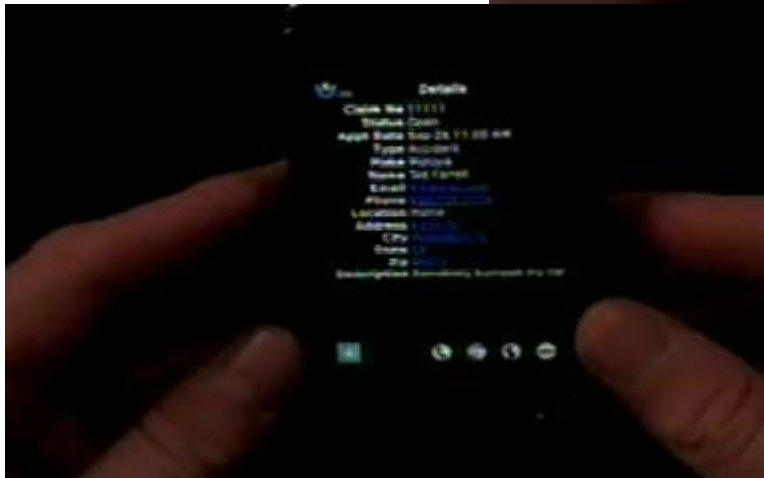
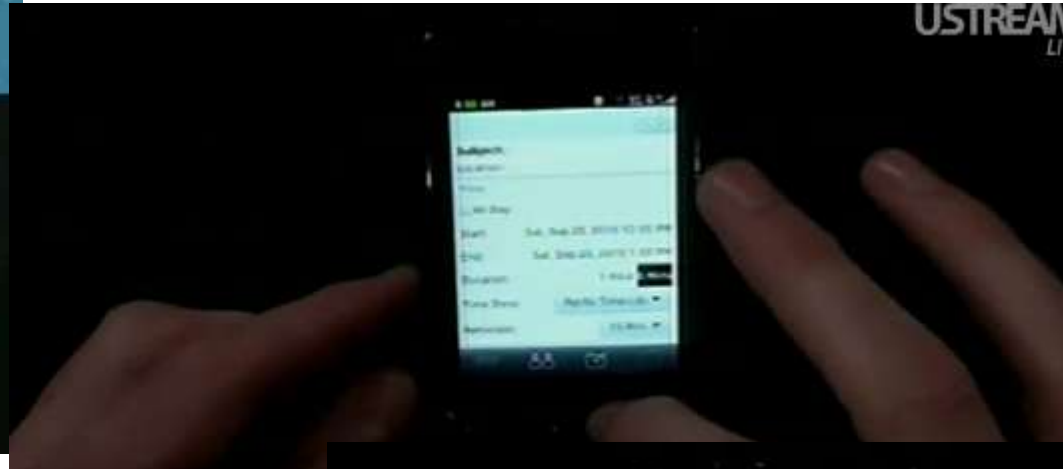








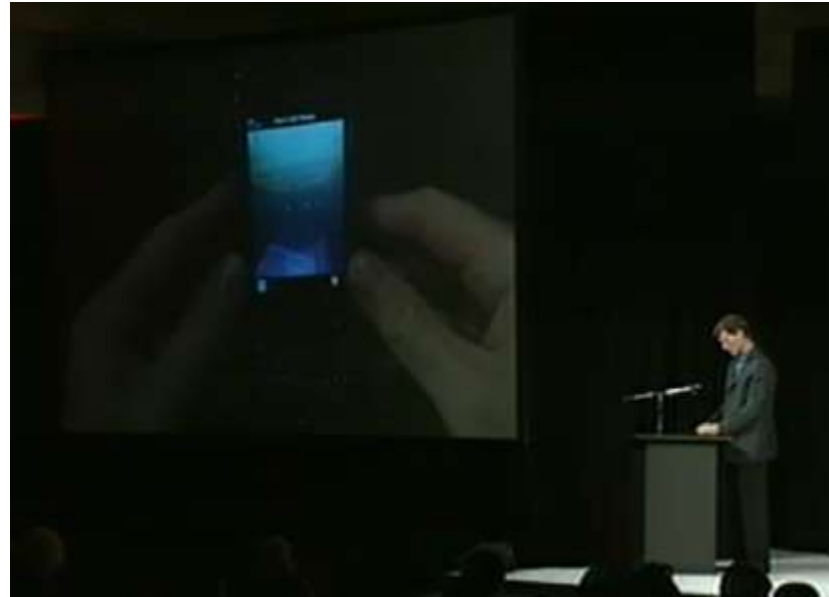
# MOBILE ADF APP FOR INSPECTOR ON THE ROAD







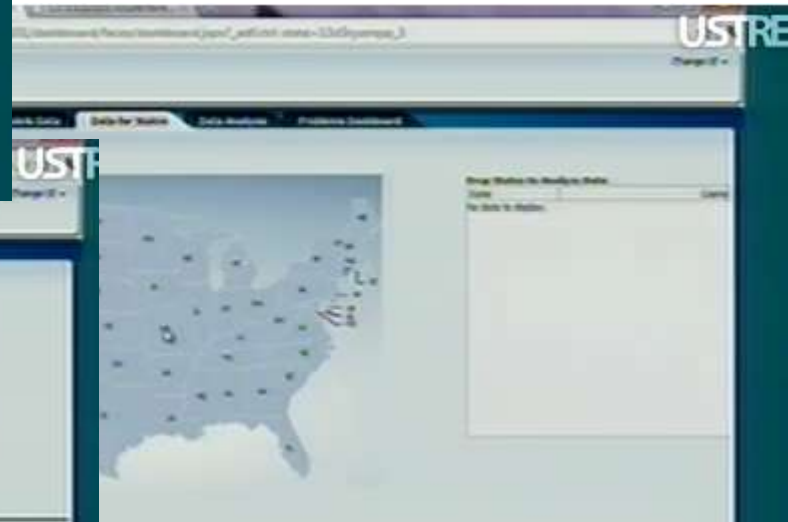
# MOBILE ADF APP FOR INSPECTOR ON THE ROAD



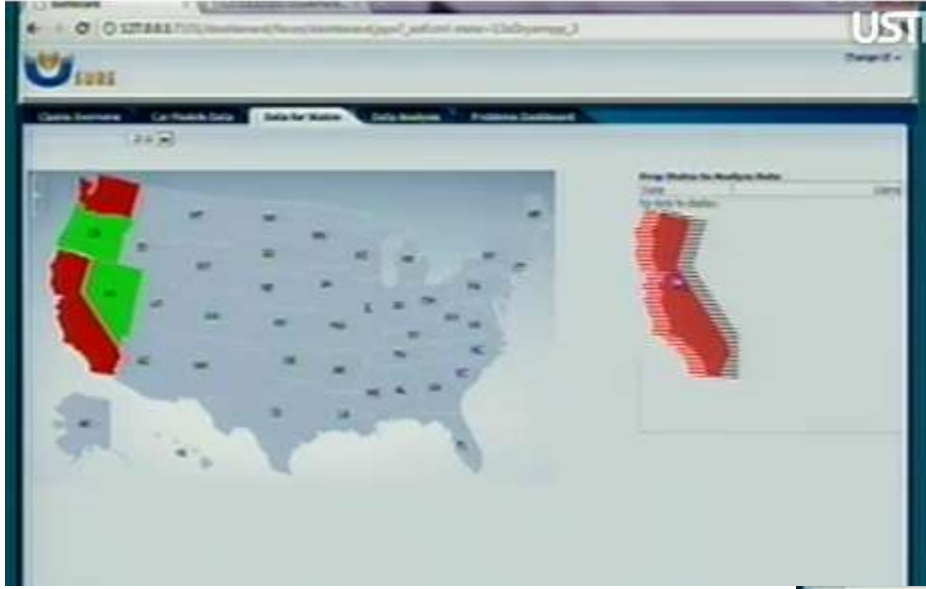




# WEB APP AND DI (EXCEL) FOR CLAIMS CONTROLLER IN (AND OUT OF) THE OFFICE











# DOWNLOAD TO EXCEL

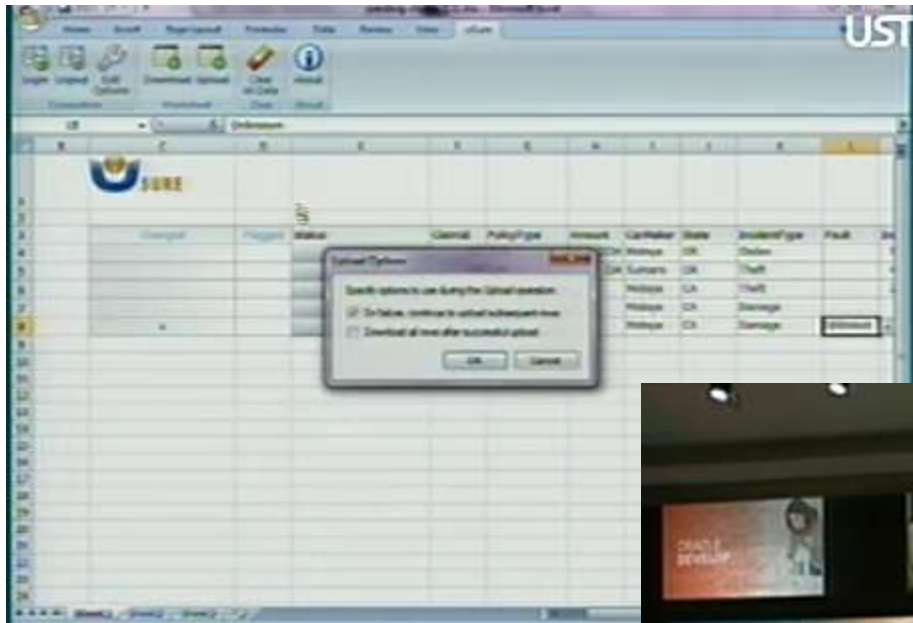


Project	Status	Client	PolicyType	Amount	CarMake	Make	AccidentType	Fault	AccidentDate
		207 Ltd	20th Policy	20	Volvo	20	Crash		5/12/2010 9:00
		208 Ltd	20th Policy	20	Volvo	20	Crash		4/12/2010 9:00
		209 Ltd	20th Policy	20	Volvo	20	Crash		3/12/2010 9:00
		210 Ltd	20th Policy	20	Volvo	20	Crash		2/12/2010 9:00
		211 Ltd	20th Policy	20	Volvo	20	Crash		1/12/2010 9:00

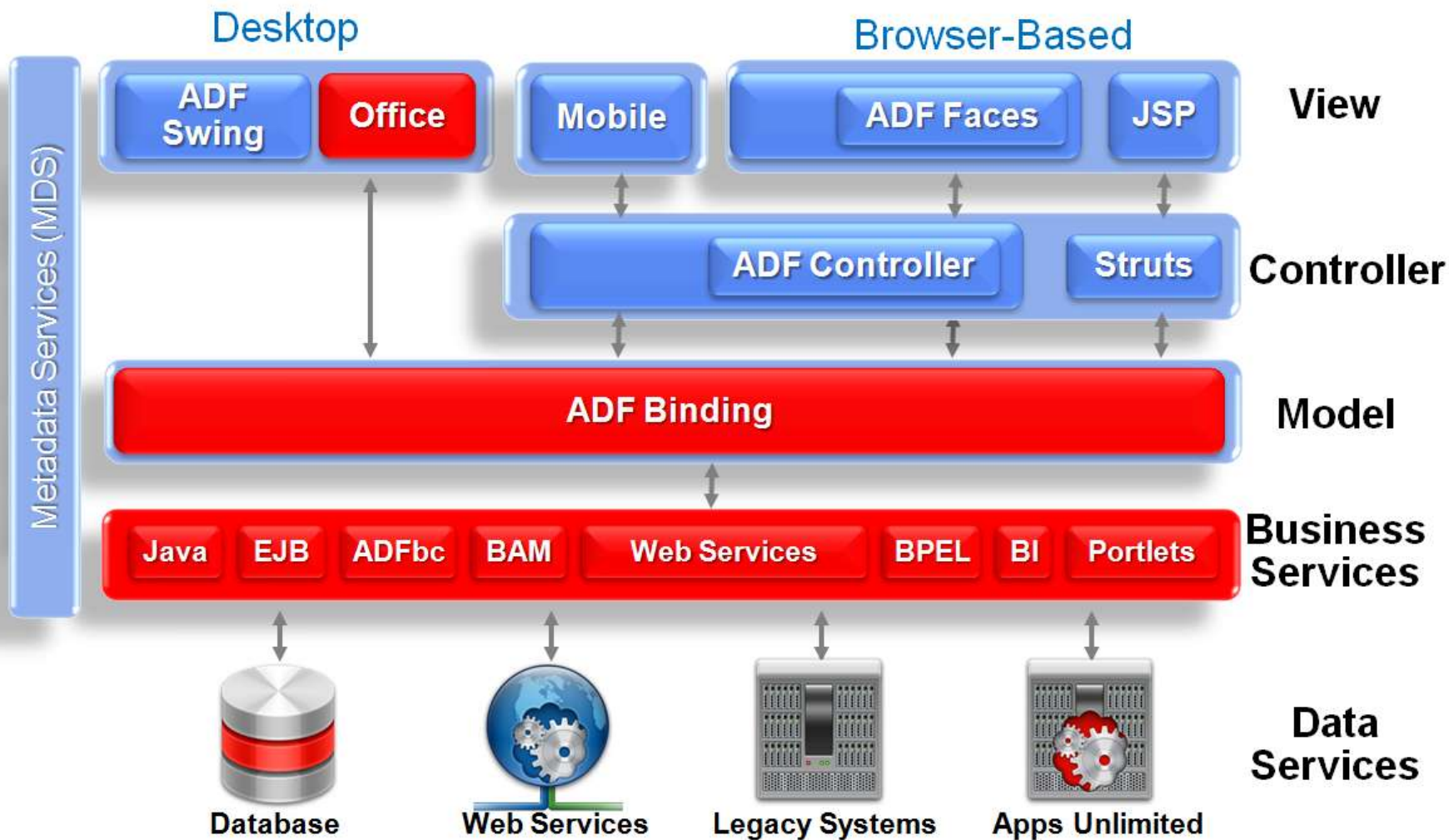




# AFTER EDITING DATA OFF-LINE IN EXCEL, RECONNECT AT SOME POINT AND SYNCH











# ADF 11G PS3 - 11.1.1.4.0

- **Skin Editor**
- **Performance**
- **Internal reorganization**
  - OSGi based extension framework
- **Customization**
- **Webcenter**
- **ALM support**
  - Maven, Hudson, ...
  - Team Productivity Center
    - Jira, Rally
- **Best Practices**
- **Mobile**
- **ADF Desktop integration - Excel**









## ADF 12C - 2012?

- **JSF 2.0**
- **Improved DataBinding / Datacontrols for non-BC**
  - JPA, Pojo, webservices, ...
- **Support JBoss, WebSphere**
  - Not Glassfish!
- **11g - 12g migratie zonder pijn**





# WEBCENTER 11G R1 PATCH SET 3

- **Alle services in WebCenter Spaces nu ook beschikbaar in ADF applicaties**
  - Notes, Personal Profile, Connections, Activity Stream, Message Board,
- **Design time vereenvoudigingen: page hiërarchie & visuele Resource Catalog editor**
- **Design Time & Run time – live editen van:**
  - page templates, skin, data controls, simpele UI componenten, resource bundles en security definities
- **WebCenter REST-services**
- **Nieuwe services**
  - Poll, Feedback ('Kudo'), Document Explorer (vervangt Document Library)
- **UCM & WC integration**
  - Blogs, Forums and Wiki based on UCM
- **Secure Enterprise Search (SES) implementatie voor de Search Service**
- **Portlet 2.0 (JSR 286) ondersteuning**
  - Taskflows gepubliceerd als Portlet nagenoeg gelijkwaardig aan Taskflow in ADF Library, inclusief PPR & Contextual Events
- **Geïntegreerde Chat faciliteit**





# ORACLE ENTERPRISE PACK FOR ECLIPSE (OEPE) 11.1.1.6

- **Eclipse 3.6, 3.5SR1**
- **JEE 6 - JSF 2.0, JPA 2.0**
- **runtime support: WLS, Glassfish and Coherence**
- **WLST support**
- **Ondersteuning voor ADF Faces RC**



# MAVEN 3 SUPPORT IN JDEV

- **Preview nu beschikbaar**
  - Beperkt bruikbaar
- **Nieuwe versie in PS3**
- **Support voor ADF library management**







- **Sponsored by Oracle**
- **Hudson will remain an open source project**
- **Integration with JDeveloper ?!**
  - TPC
- **Maven deploy plugin**
  - com.oracle.weblogic
  - weblogic-maven-plugin
  - Created with wjarbuilder



- **JHeadstart Uses Best Practice ADF Design Patterns**
  - “One-page” application (UIShell)
  - Generated task flows are highly reusable
  - Generated task flows are highly configurable
  - Generates layout best practices
  - Region interaction design patterns are autoimplemented





# SUMMARY

- **Java**
  - OpenJDK
  - Java 7 en Java 8
  - JavaFx
  - Mobile en embedded
  - NetBeans
  - GlassFish
- **ADF**
  - Strategic choice
  - User Experience
- **Oracle Enterprise Pack for Eclipse**
  - volwaardige omgeving
  - Support voor WLS, ADF





# DE JAVA COMMUNITY EN ORACLE





