ORACLE®

RIAs and Web 2.0 Development Made Simple

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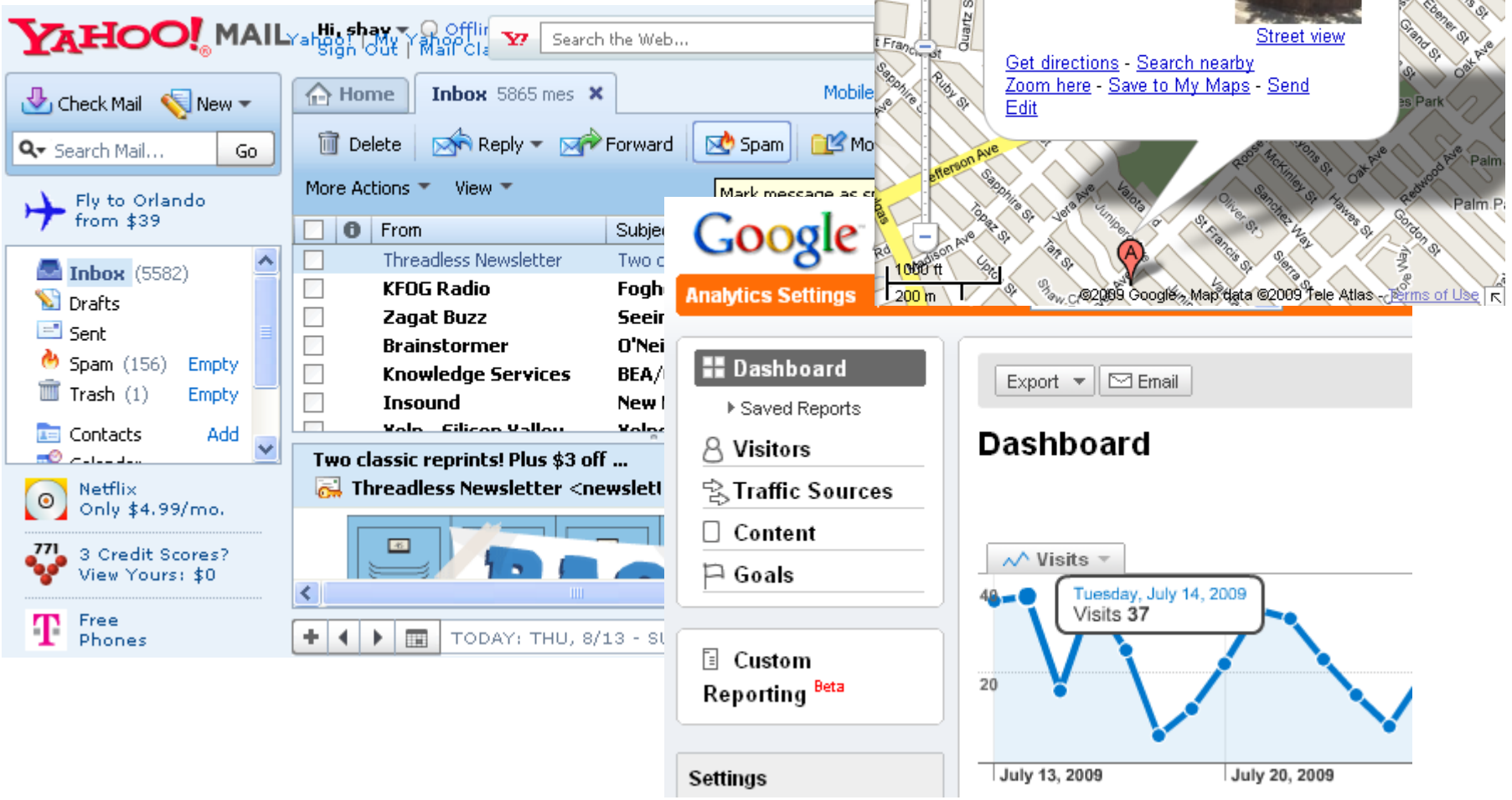
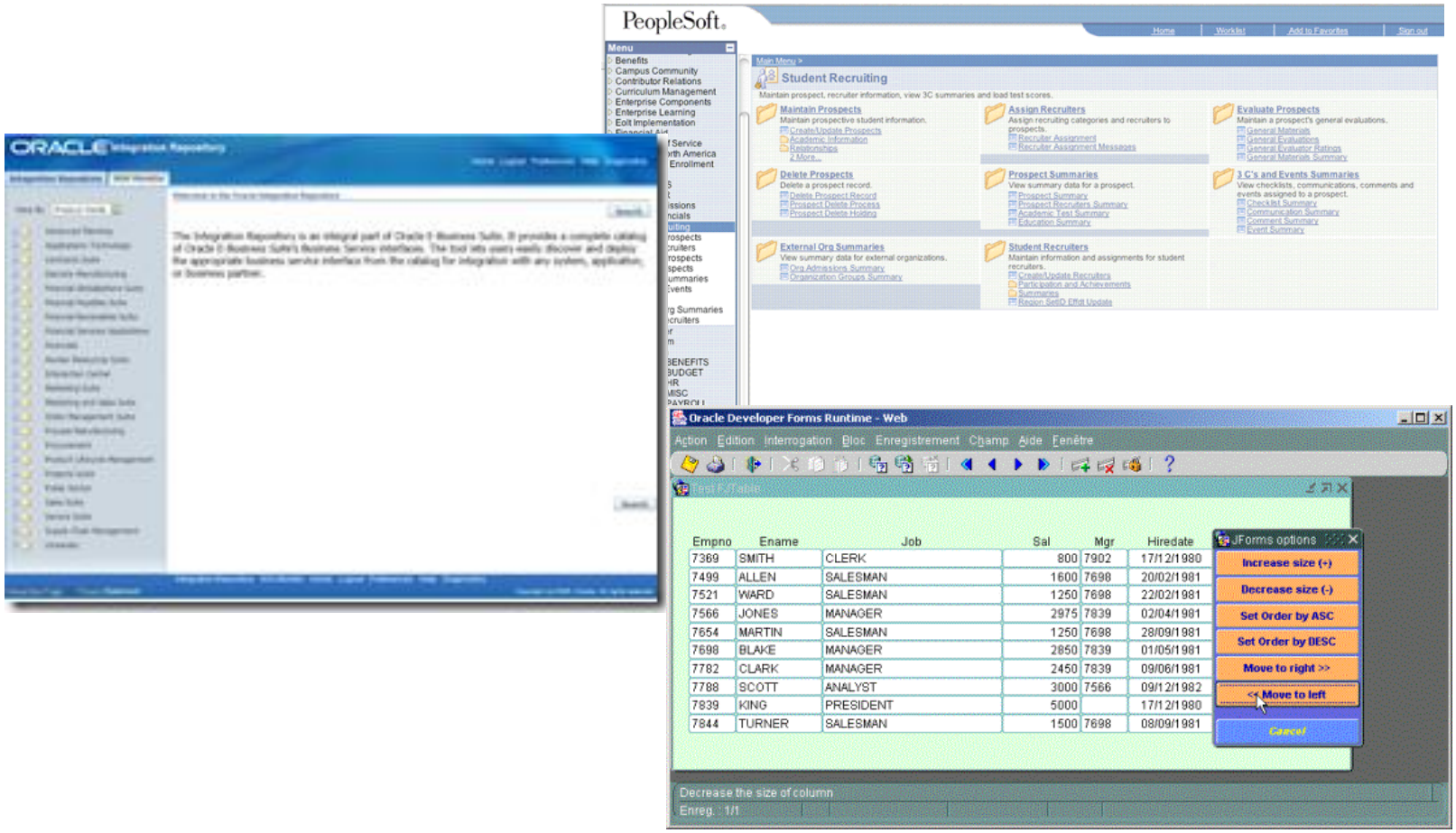
http://blogs.oracle.com/dana

Your Users are Using These at Home:



How Are Your Applications Look?



Empno	Ename	Job	Sal	Mgr	Hiredate
7369	SMITH	CLERK	800	7902	17/12/1980
7499	ALLEN	SALESMAN	1600	7698	20/02/1981
7521	WARD	SALESMAN	1250	7698	22/02/1981
7566	JONES	MANAGER	2975	7839	02/04/1981
7654	MARTIN	SALESMAN	1250	7698	28/09/1981
7698	BLAKE	MANAGER	2850	7839	01/05/1981
7782	CLARK	MANAGER	2450	7839	09/06/1981
7788	SCOTT	ANALYST	3000	7566	09/12/1982
7839	KING	PRESIDENT	5000		17/12/1980
7844	TURNER	SALESMAN	1500	7698	08/09/1981

What's The Difference?

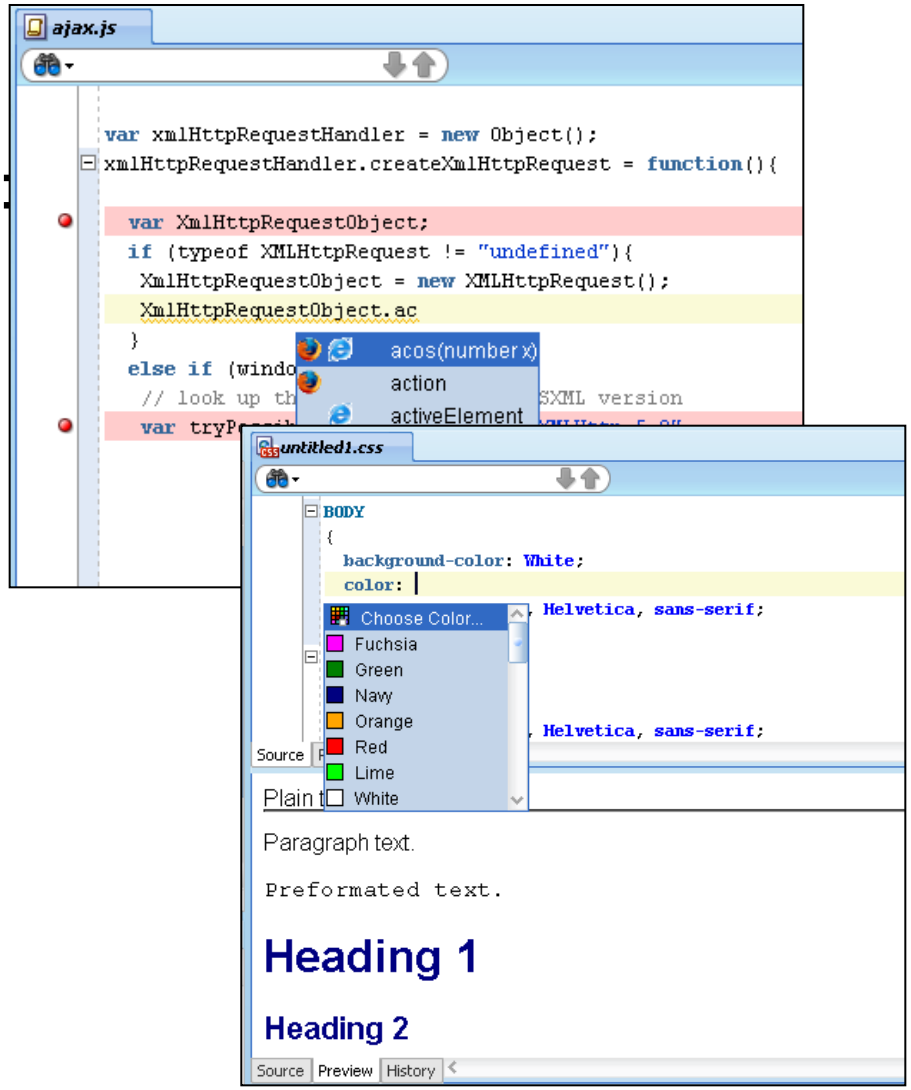
- Better Looking UI
- Better User Interaction
- Better Feedback
- Better Data Visualization
- Better Process Flow

How Does It Work?

- AJAX
  - asynchronous JavaScript and XML
  - DOM
  - XHTML
  - CSS
  - XML/XSLT
  - XMLHttpRequest
  - JavaScript
- Maybe some Flash

We Have The Tools

- Oracle JDeveloper includes:
- Visual HTML layout editor
- JavaScript editor
  - Code insight
  - Refactoring
- JavaScript Debugger
- CSS editor
  - Preview tab
- HTTP Monitor



But The Challenge

- Thousands of developers
- Most don’t know Ajax technologies
- Most come from 4GL background
- Expecting a visual and declarative approach
- Don’t have time to learn all the new Ajax technologies
- Need to focus on their specific application needs

THERE MUST BE A SIMPLER WAY…

A Simpler Approach

JSF and ADF Faces Components

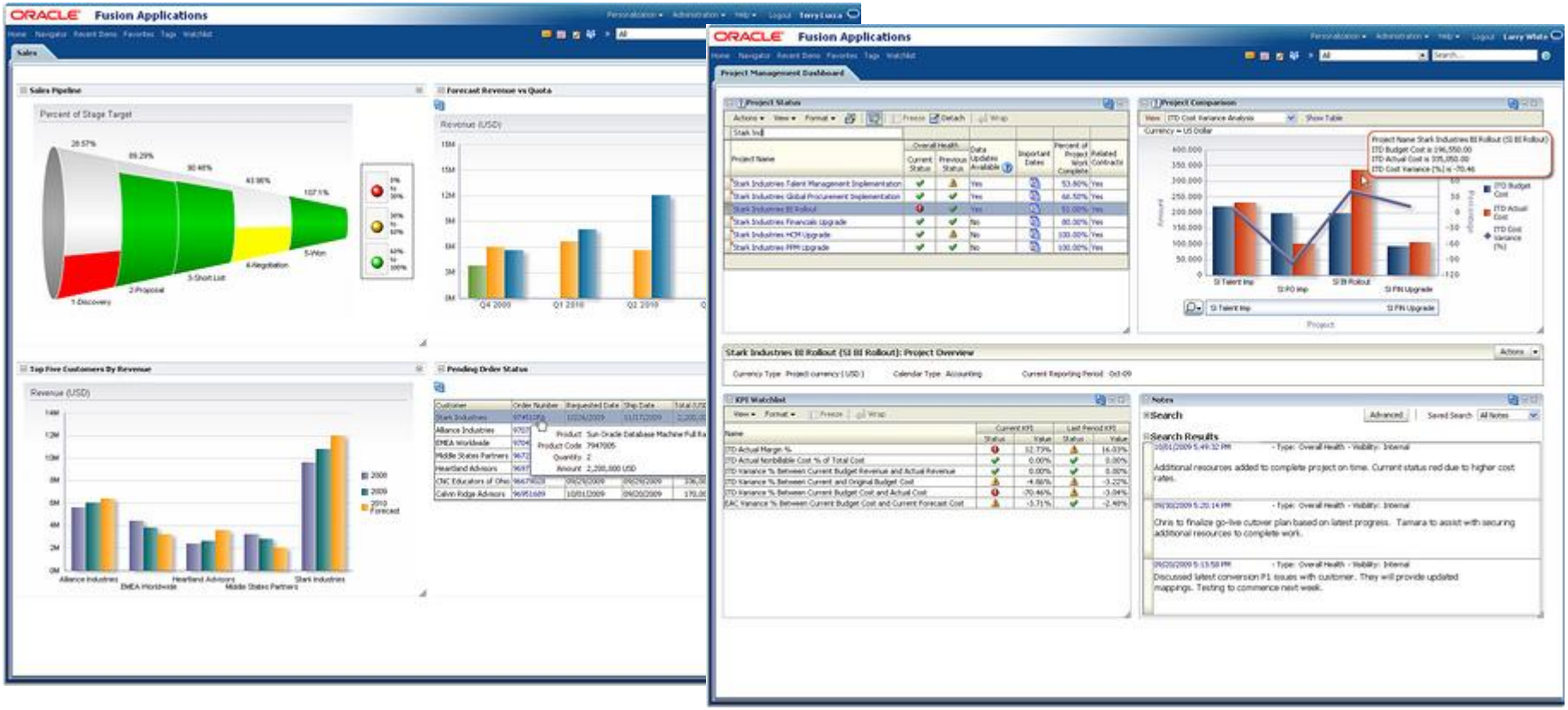
JSF In 60 Seconds

- Simplifying Web Development
  - Server side UI generation
  - **Component based** not mark-up
  - Automatic event and state handling
  - Diverse client base not just HTML
  - Designed with tooling in mind
  - Applicable to wide spectrum of programmer types
- A Java EE standard

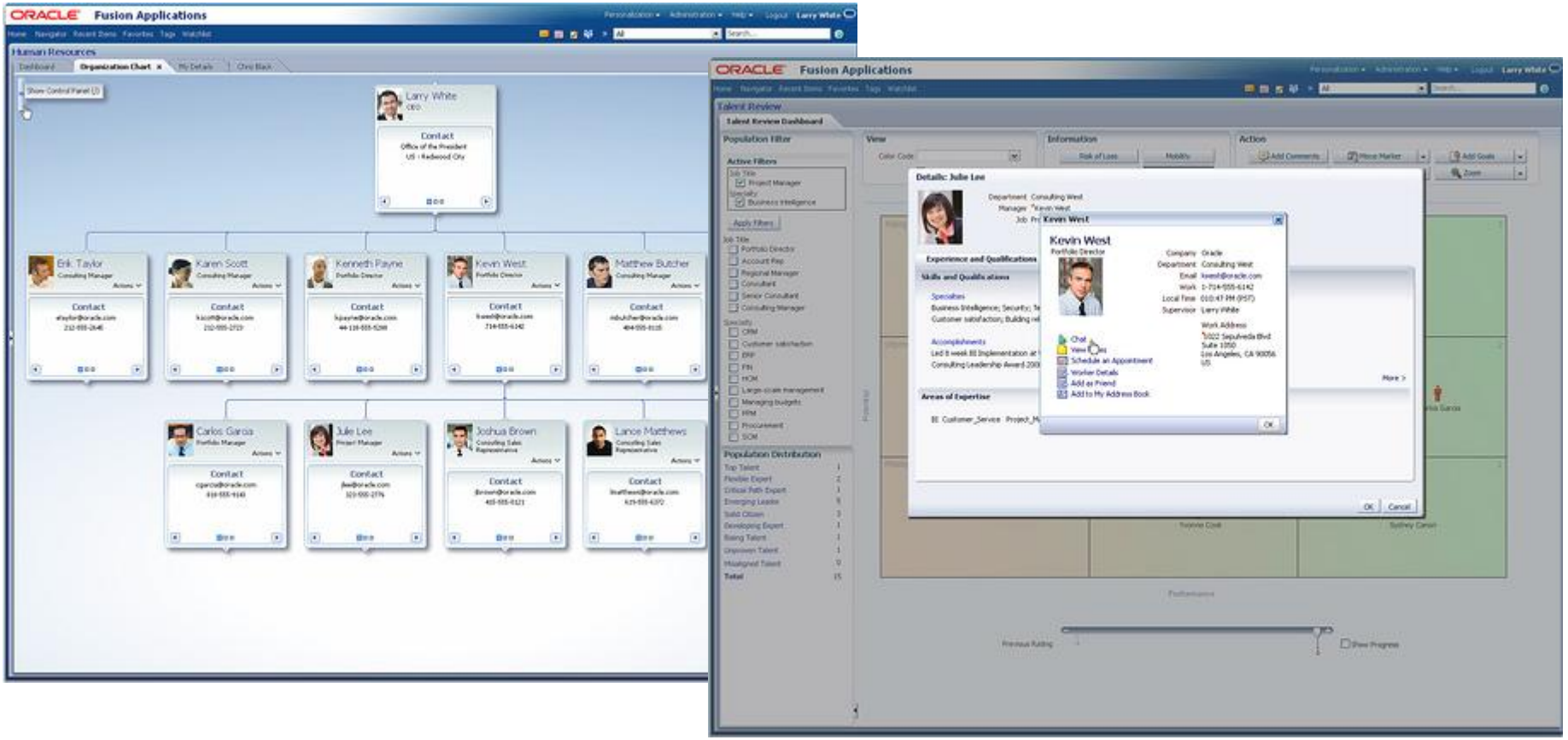
Oracle ADF Faces – Oracle's UI Framework

- Component approach to page construction
- Ajax baked-in the component
- Visual and declarative development
- The standard UI platform at Oracle
  - Oracle Fusion Applications
  - Oracle Products
    - Web Center
    - SOA
    - Enterprise Manager

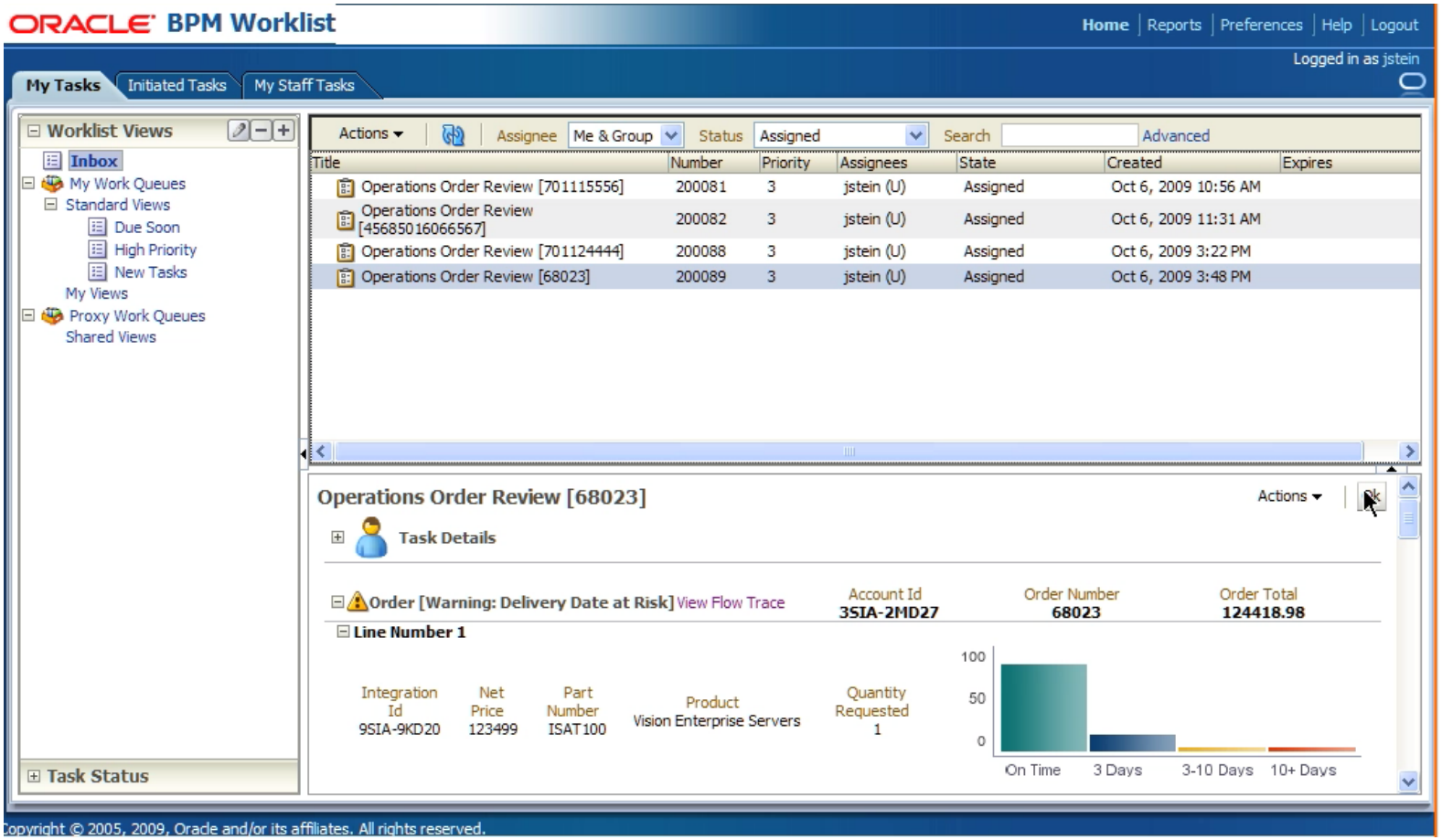
Oracle Fusion Applications



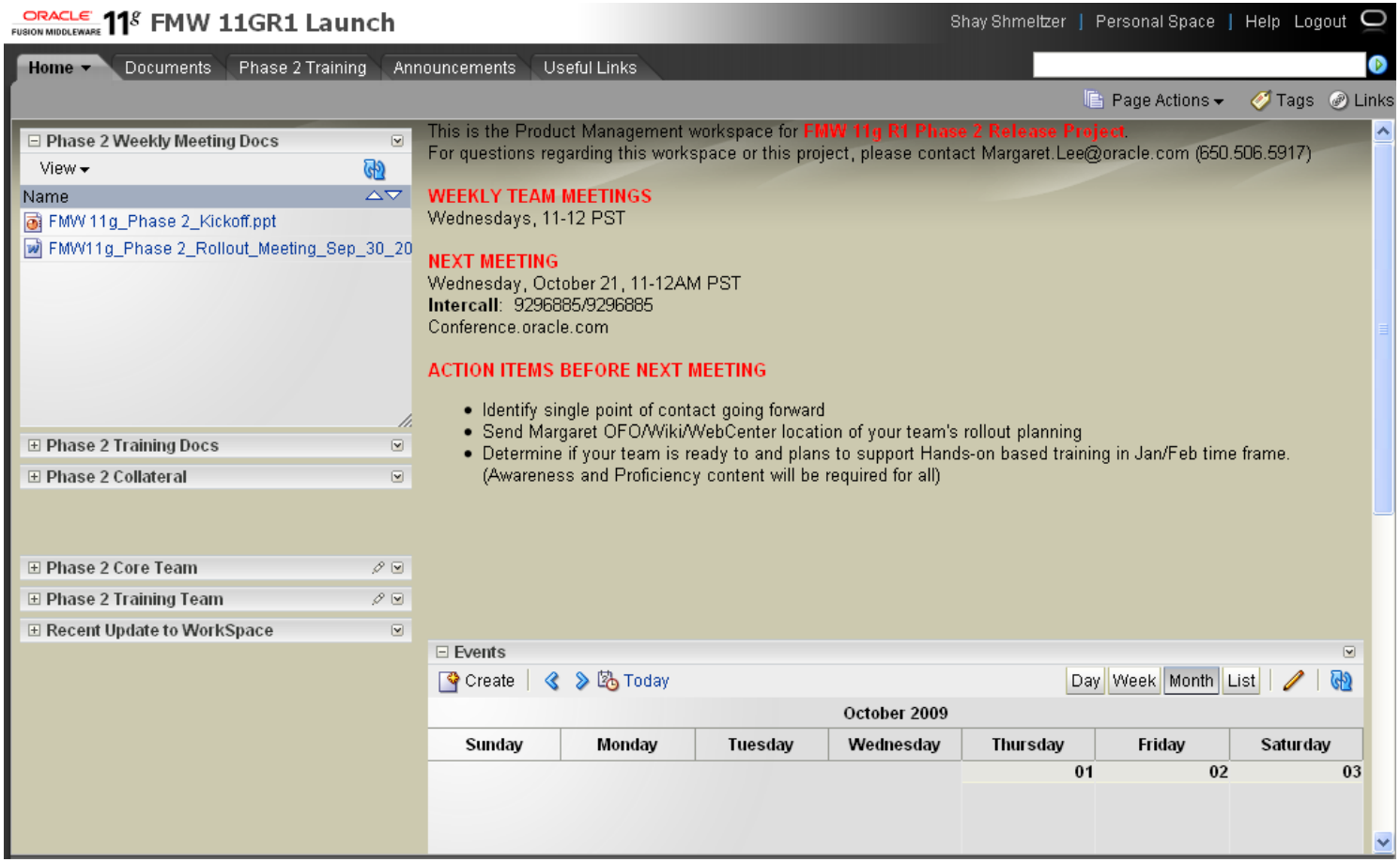
Oracle Fusion Applications



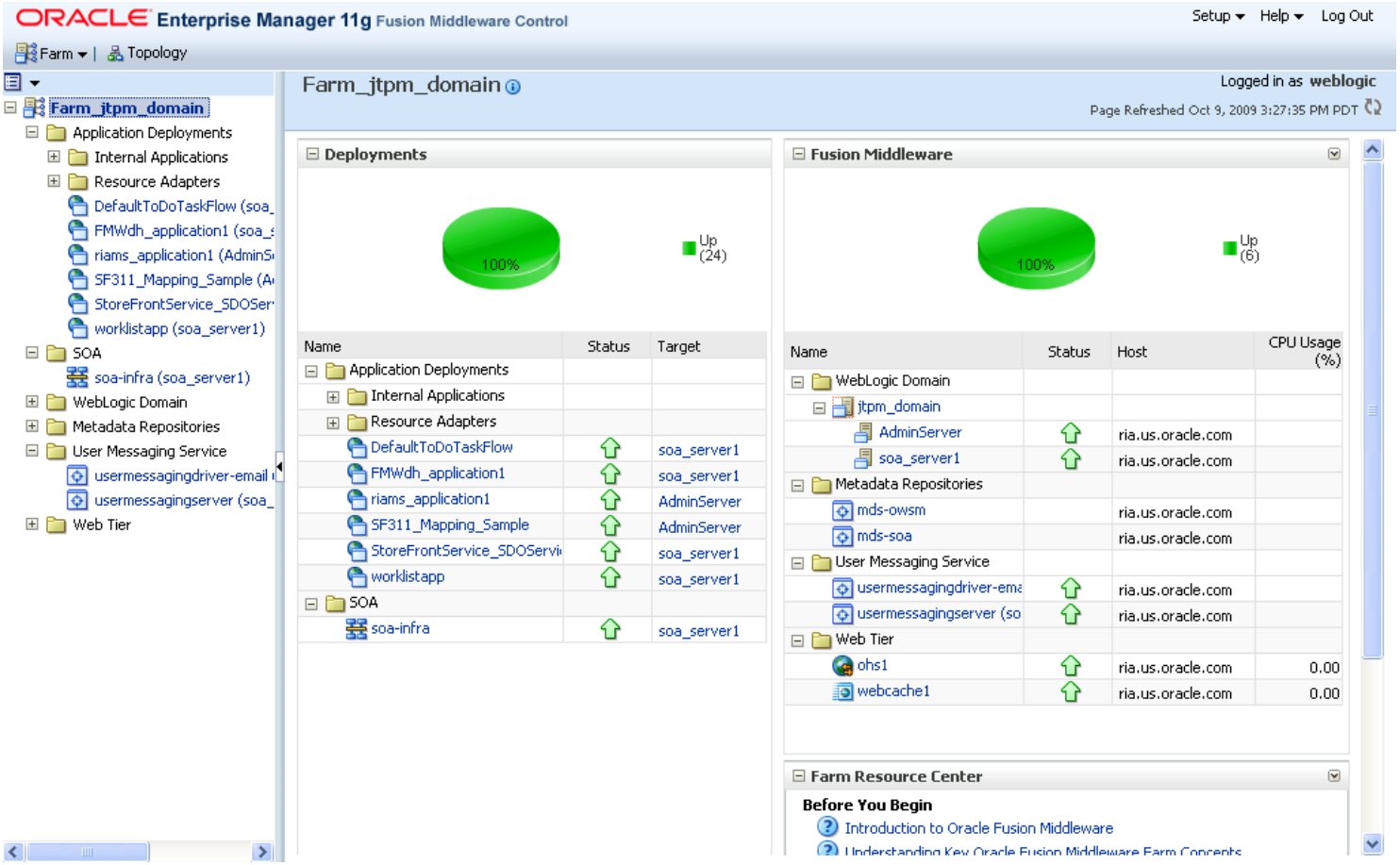
Oracle BPM WorkList



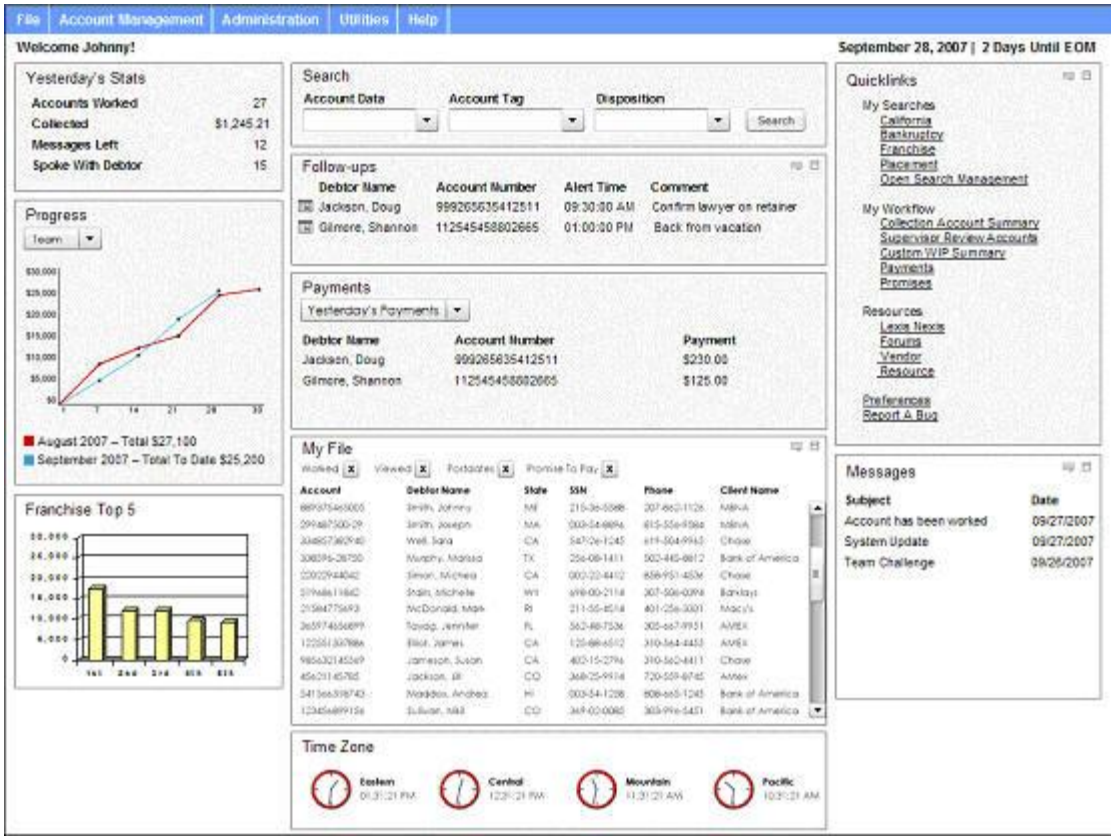
Oracle WebCenter Spaces



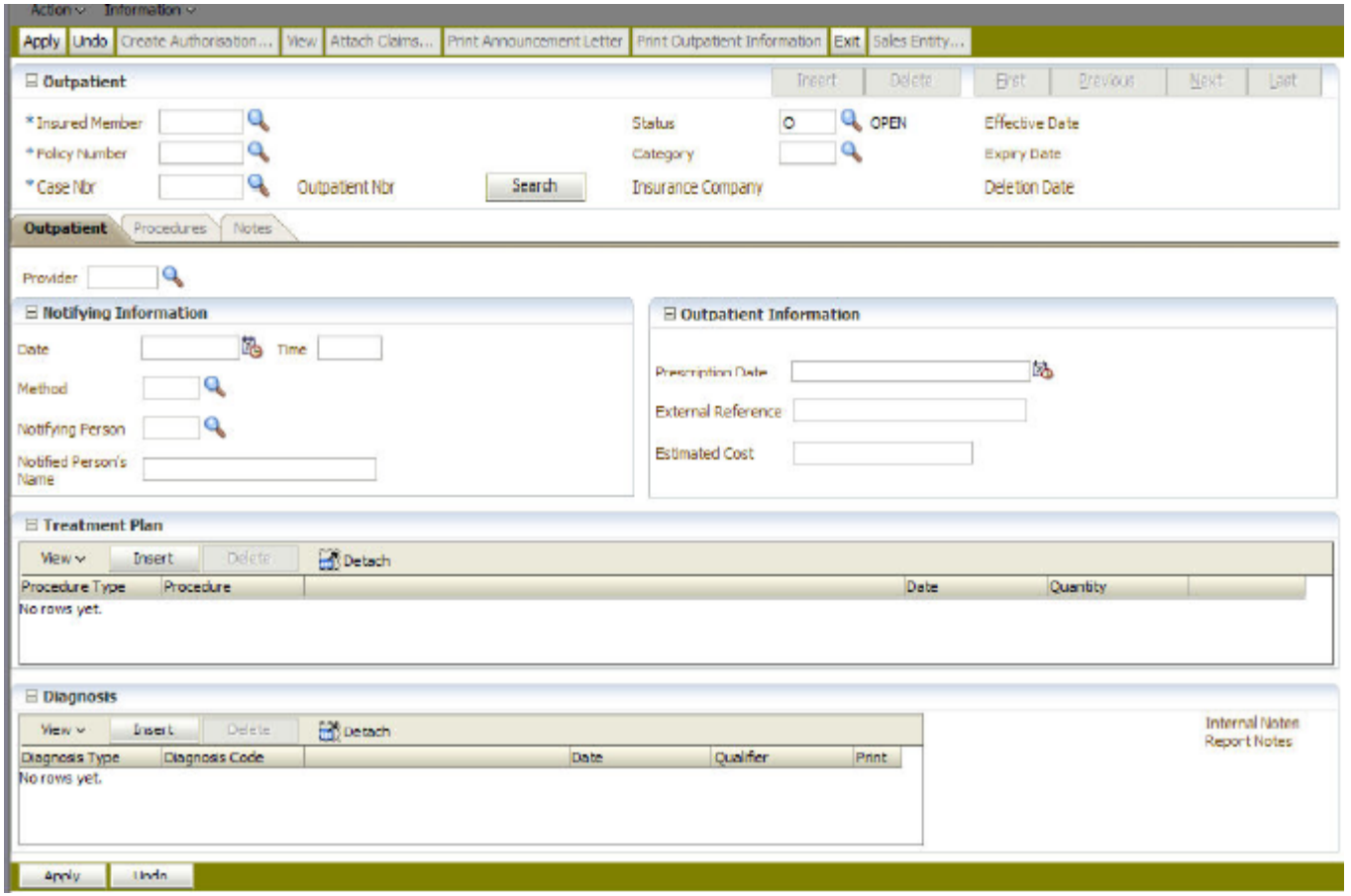
Oracle Enterprise Manager



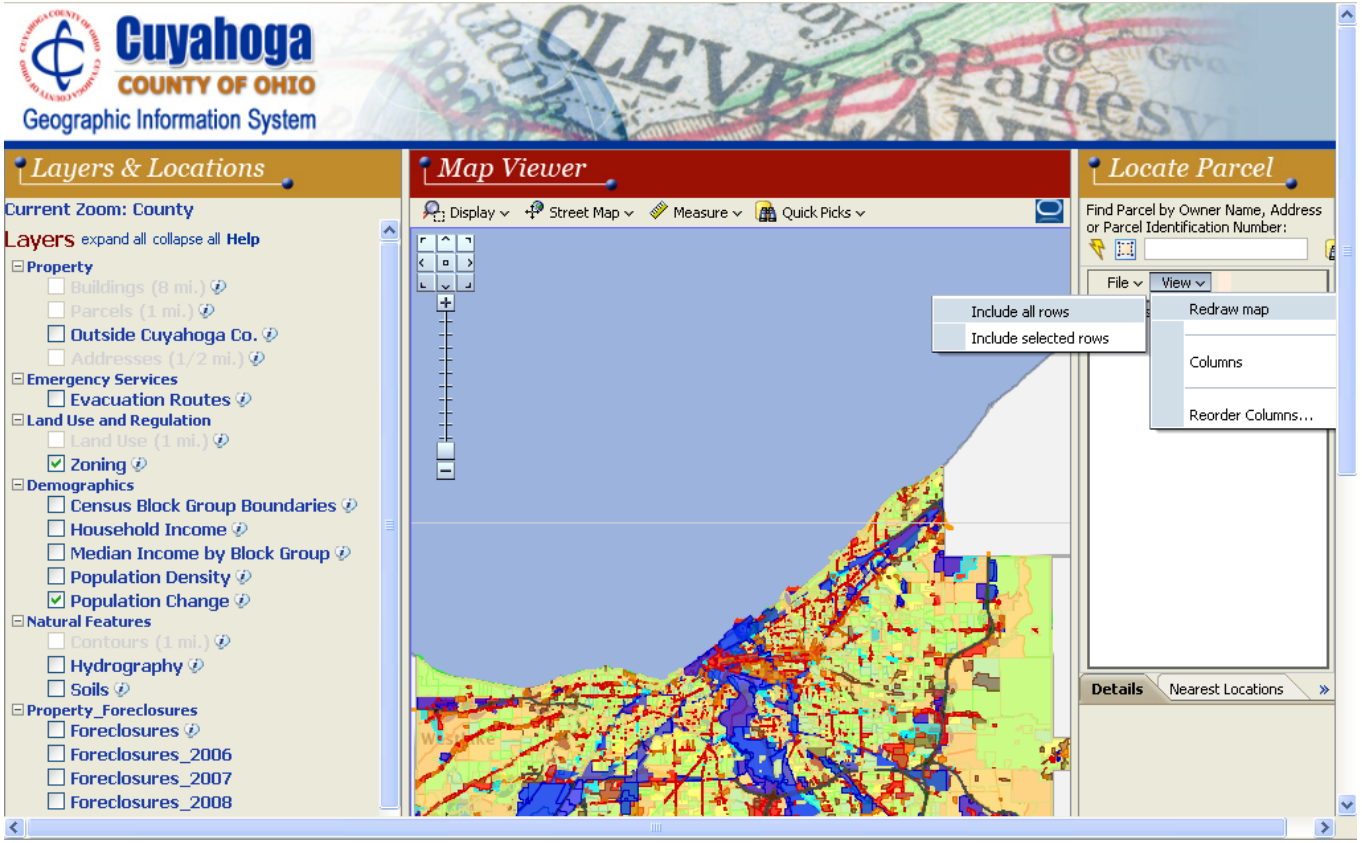
Square Two Financial



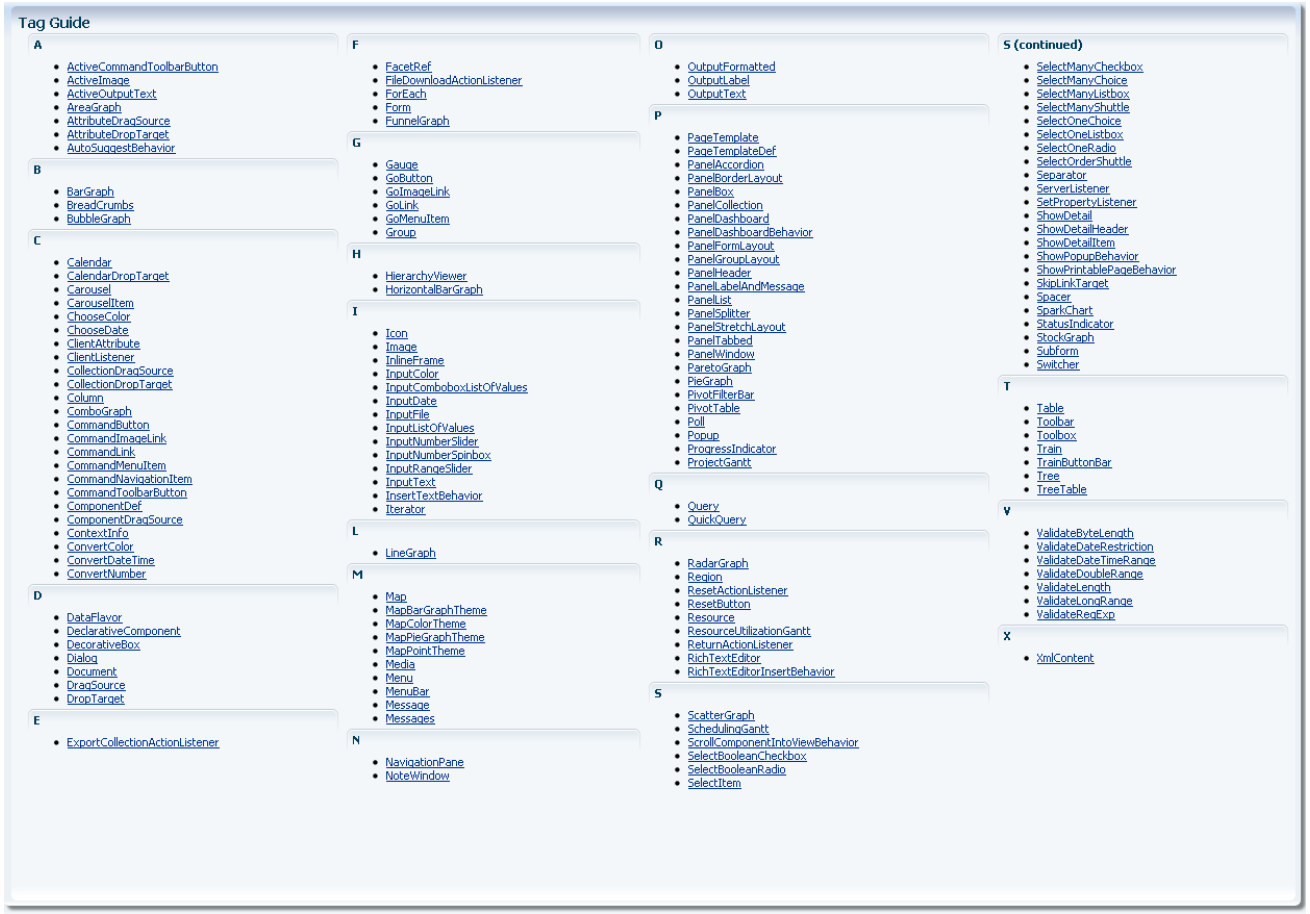
MedNet


Action
Information
Apply
Undo
Create Authorisation...
View
Attach Claims...
Print Announcement Letter
Print Outpatient Information
Exit
Sales Entity...
Outpatient
Insert
Delete
First
Previous
Next
Last
*Insured Member
*Policy Number
*Case Nbr
Outpatient Nbr
Search
Status
O
OPEN
Category
Insurance Company
Effective Date
Expiry Date
Deletion Date
Outpatient
Procedures
Notes
Provider
Notifying Information
Date
Time
Method
Notifying Person
Notified Person's Name
Outpatient Information
Prescription Date
External Reference
Estimated Cost
Treatment Plan
View
Insert
Delete
Detach
Procedure Type
Procedure
Date
Quantity
No rows yet.
Diagnosis
View
Insert
Delete
Detach
Diagnosis Type
Diagnosis Code
Date
Qualifier
Print
No rows yet.
Internal Notes
Report Notes
Apply
Undo

Cuyahoga County



Over 150 Ajax Enabled Components



Tag Guide

A
- ActiveCommandToolbarButton
- ActiveImage
- ActiveOutputText
- AreaGraph
- AttributeDragSource
- AttributeDropTarget
- AutoSuggestBehavior

B
- BarGraph
- BreadCrumbs
- BubbleGraph

C
- Calendar
- CalendarDropTarget
- Carousel
- CarouselItem
- ChooseColor
- ChooseDate
- ClientAttribute
- ClientListener
- CollectionDragSource
- CollectionDropTarget
- Column
- ComboGraph
- CommandButton
- CommandImageLink
- CommandLink
- CommandMenuItem
- CommandNavigationItem
- CommandToolbarButton
- ComponentDef
- ComponentDragSource
- ContextInfo
- ConvertColor
- ConvertDateTime
- ConvertNumber

D
- DataFlavor
- DeclarativeComponent
- DecorativeBox
- Dialog
- Document
- DragSource
- DropTarget

E
- ExportCollectionActionListener

F
- FacetRef
- FileDownloadActionListener
- ForEach
- Form
- FunnelGraph

G
- Gauge
- GoButton
- GoImageLink
- GoLink
- GoMenuItem
- Group

H
- HierarchyViewer
- HorizontalBarGraph

I
- Icon
- Image
- InlineFrame
- InputColor
- InputComboboxListOfValues
- InputDate
- InputFile
- InputListOfValues
- InputNumberSlider
- InputNumberSpinbox
- InputRangeSlider
- InputText
- InsertTextBehavior
- Iterator

L
- LineGraph

M
- Map
- MapBarGraphTheme
- MapColorTheme
- MapPieGraphTheme
- MapPointTheme
- Media
- Menu
- MenuBar
- Message
- Messages

N
- NavigationPane
- NoteWindow

O
- OutputFormatted
- OutputLabel
- OutputText

P
- PageTemplate
- PageTemplateDef
- PanelAccordion
- PanelBorderLayout
- PanelBox
- PanelCollection
- PanelDashboard
- PanelDashboardBehavior
- PanelFormLayout
- PanelGroupLayout
- PanelHeader
- PanelLabelAndMessage
- PanelList
- PanelSplitter
- PanelStretchLayout
- PanelTabbed
- PanelWindow
- ParetoGraph
- PieGraph
- PivotFilterBar
- PivotTable
- Poll
- Popup
- ProgressIndicator
- ProjectGantt

Q
- Query
- QuickQuery

R
- RadarGraph
- Region
- ResetActionListener
- ResetButton
- Resource
- ResourceUtilizationGantt
- ReturnActionListener
- RichTextEditor
- RichTextEditorInsertBehavior

S
- ScatterGraph
- SchedulingGantt
- ScrollComponentIntoViewBehavior
- SelectBooleanCheckbox
- SelectBooleanRadio
- SelectItem

S (continued)
- SelectManyCheckbox
- SelectManyChoice
- SelectManyListbox
- SelectManyShuttle
- SelectOneChoice
- SelectOneListbox
- SelectOneRadio
- SelectOrderShuttle
- Separator
- ServerListener
- SetPropertyListener
- ShowDetail
- ShowDetailHeader
- ShowDetailItem
- ShowPopupBehavior
- ShowPrintablePageBehavior
- SkipLinkTarget
- Spacer
- SparkChart
- StatusIndicator
- StockGraph
- Subform
- Switcher

T
- Table
- Toolbar
- Toolbox
- Train
- TrainButtonBar
- Tree
- TreeTable

V
- ValidateByteLength
- ValidateDateRestriction
- ValidateDateTimeRange
- ValidateDoubleRange
- ValidateLength
- ValidateLongRange
- ValidateRegExp

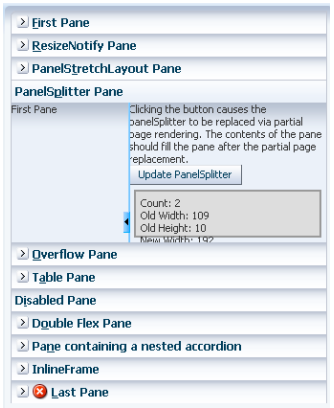
X
- XmlContent

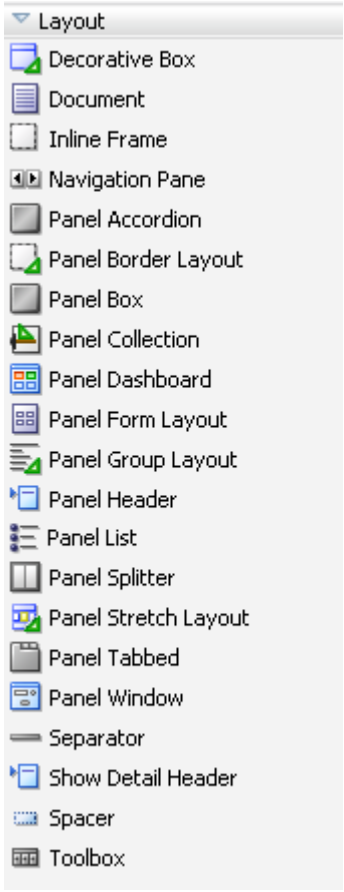
More Than Components – A Framework

- Dialog and popup windows
- Drag-and-drop
- Navigation menu
- Partial page rendering
- Active data framework – ajax communication
- Advanced data streaming – push communication
- Complete JavaScript API
- Templating
- Skinning
- Accessibility

Layout Components

- Arrange your page using areas
- Change page layout at runtime
  - Splitter
  - Accordion
  - Show detail
- Advanced layouts
  - Tabbed
  - Dashboards
  - Borders

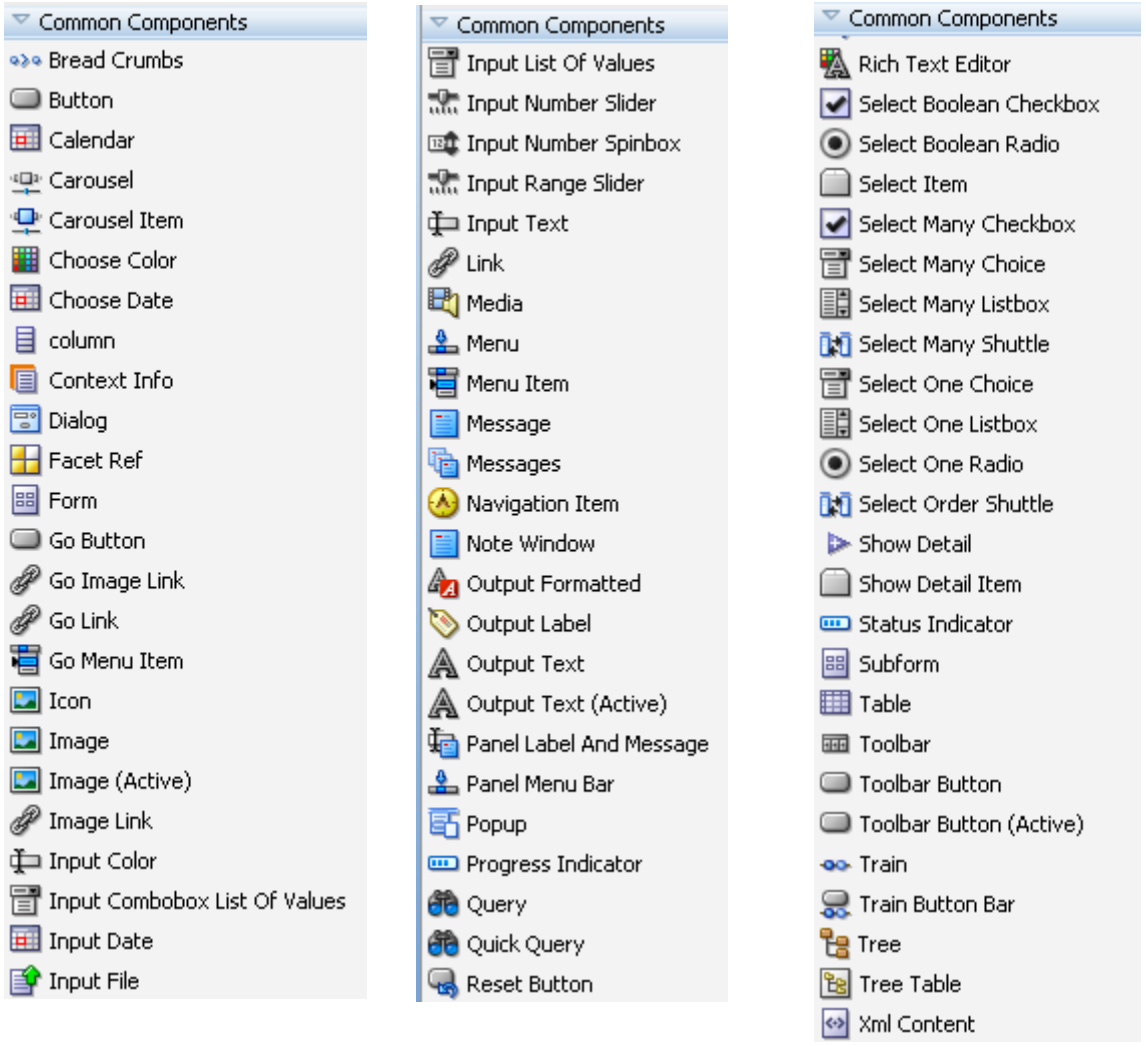




Demonstration

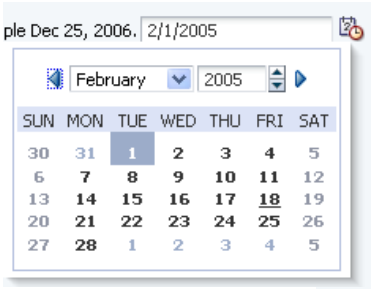
Arranging a Page with Layout Components

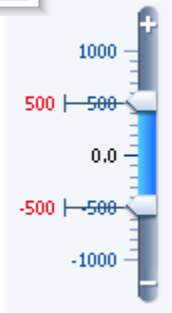
Common Components

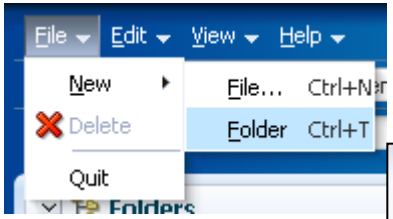


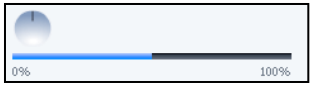
Common Components

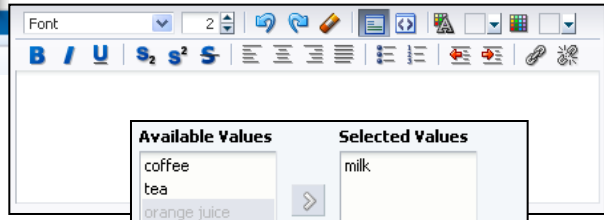
- Input/Output components
  - Text items, check boxes, radio buttons, date
- Selection components
  - Single select, multiple select, combo box, LOV, shuttle
- Tables and Trees
- Navigation components
- Others
  - Progress bar
  - bread crumbs …

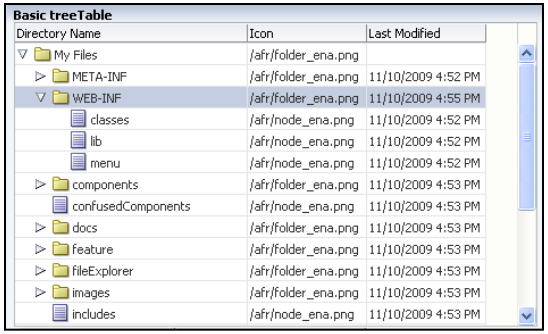






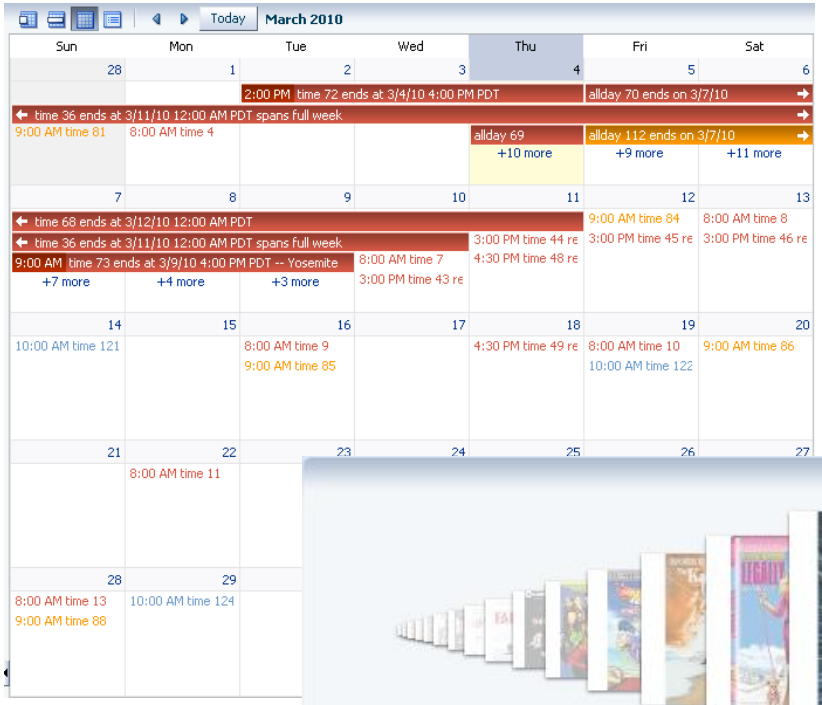




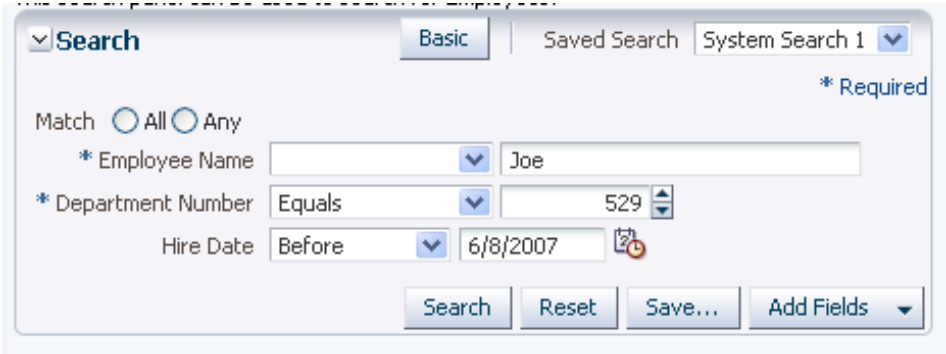


Some More Advanced Components

Calendar



Query



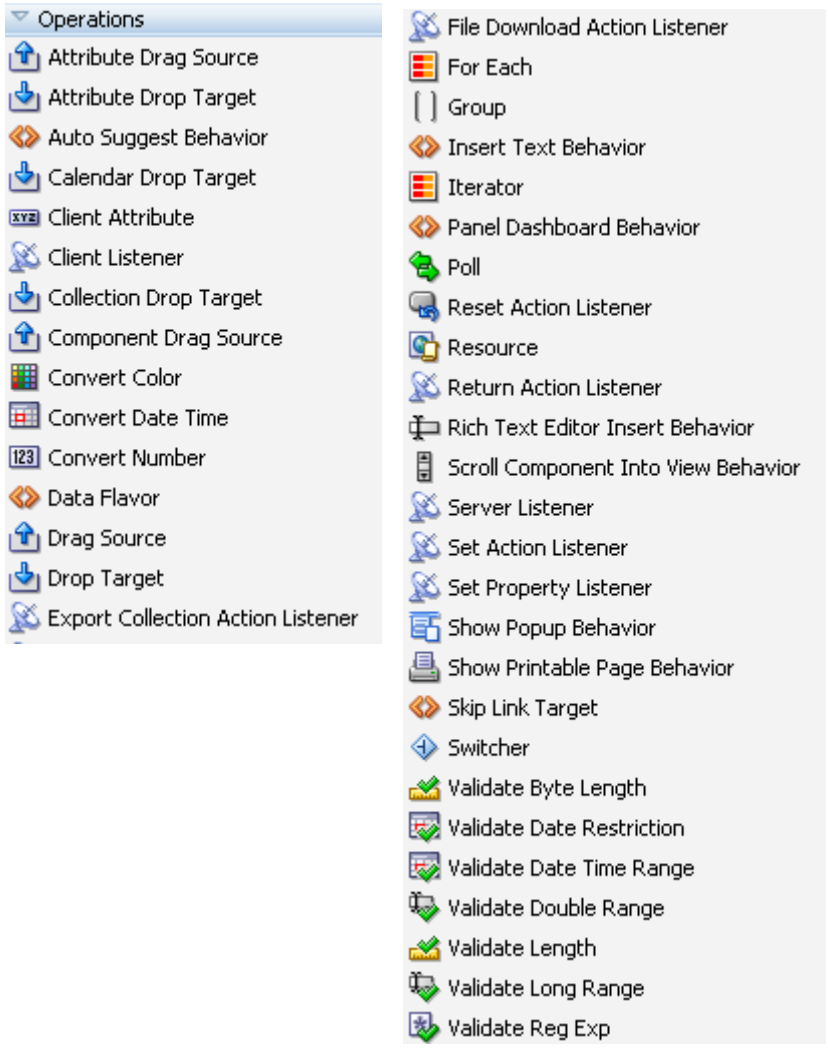
Carousel

Demonstration

Displaying Data with Common Components

Operation Components

- Eliminate JavaScript Coding:
- Drag and drop
- Autosuggest
- Pop up
- Poll
- Validators
- Listeners
- Convertors
- Export
- Print



Demonstration

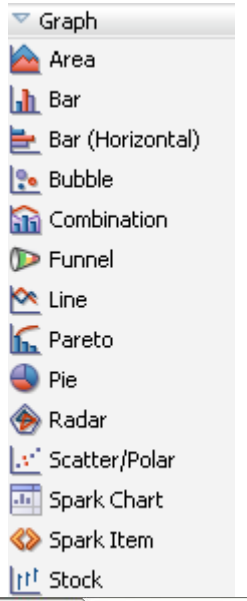
Adding Client Functionality with Operation Components

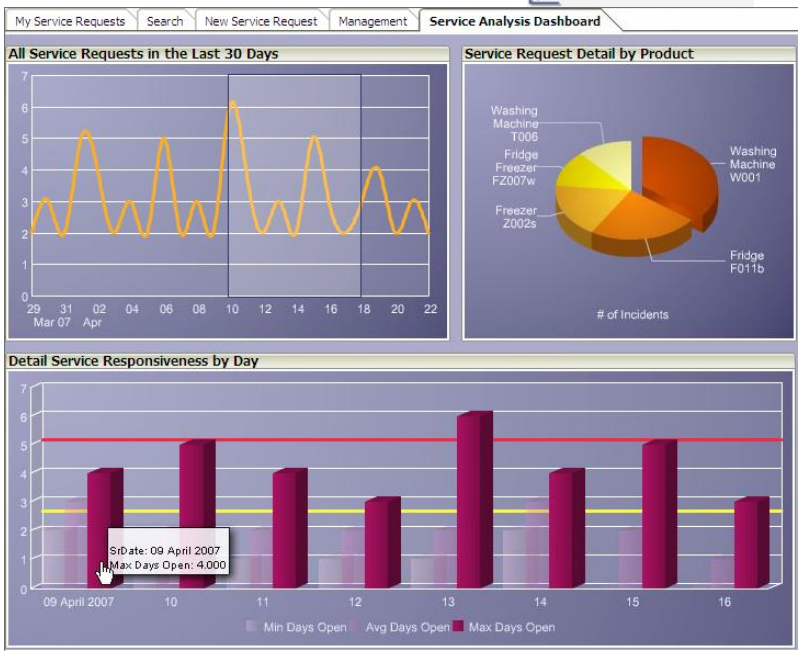
Demonstration

Framework Capabilities

Graphs

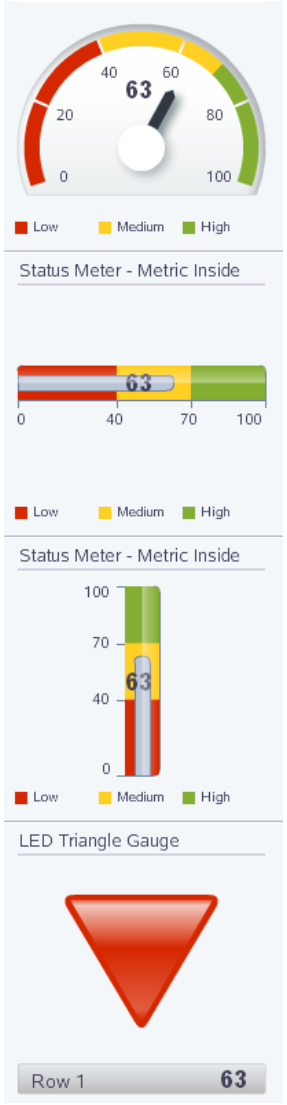
- 50 graph types
- Flash or PNG rendering
- Interactive: zoom, scroll, time selector window, line and legend highlighting/fading, dynamic reference lines and areas





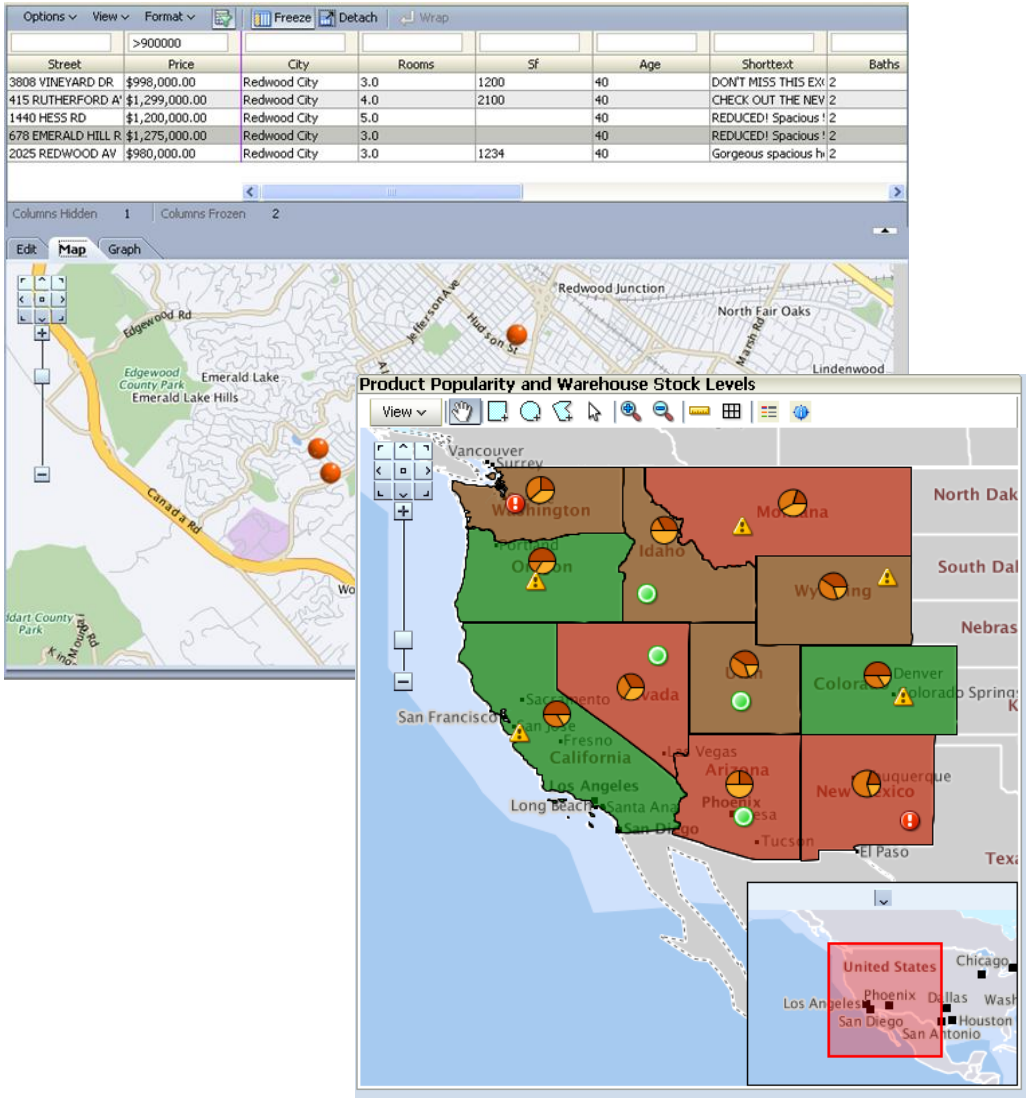
Gauges

- Dial: standard and threshold
- Status Meter: standard and threshold
- LED



Geographic Maps

- Represents business data on a geographic map
- Supports superimposing multiple layers of information on a single map
- Available Map types are:
  - Thematic
  - Pie
  - Bar
  - Point



Pivot Table

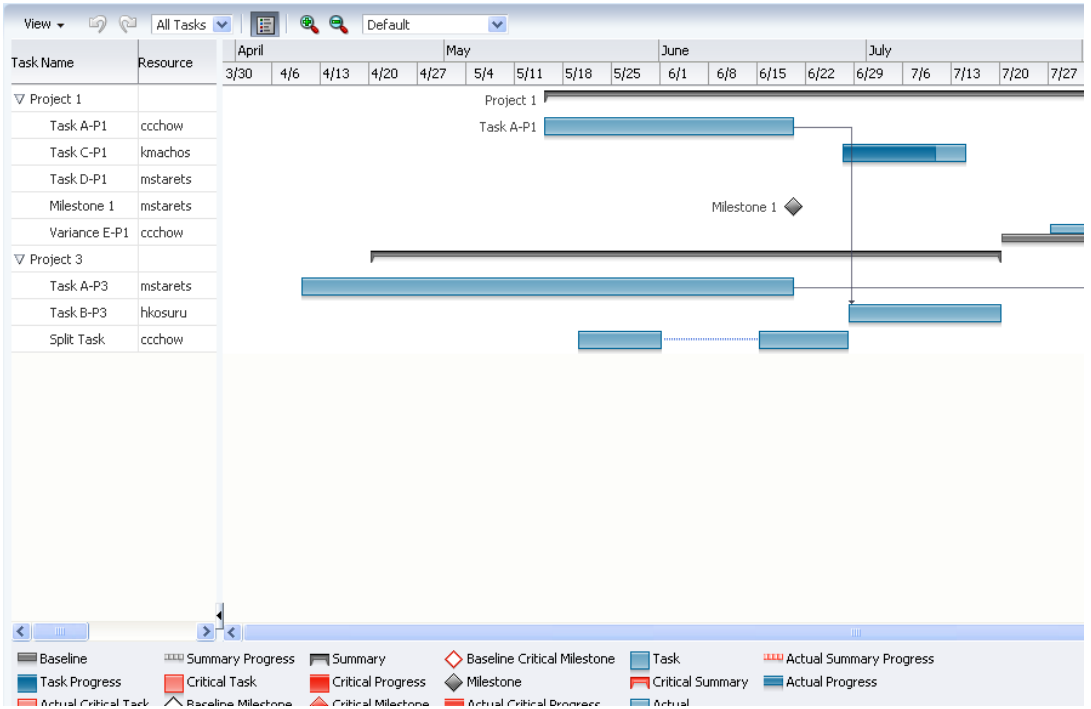
- Multiple layers of data labels on a row or a column edge
- Automatic calculation of subtotals and totals
- Drag and drop pivoting
- Drill and edit enabled

		Sales						
		All Channels						
		2005	2006	2007	2008	2009	2010	Time Total (sum)
Tents	World	5000.0	10000.0	20000.0	8000.0	18000.0	30000.0	
	Boston	125.0	250.0	500.0	200.0	400.0	900.0	
Canoes	World	3750.0	7500.0	15000.0	5000.0	12000.0	29000.0	
	Boston	375.0	750.0	1500.0	450.0	1100.0	3100.0	

	▽ First Quarter			▷ Second Quarter
	January	February	March	
Direct	5,000	5,400	5,800	7,200
Indirect	500	540	580	1,711

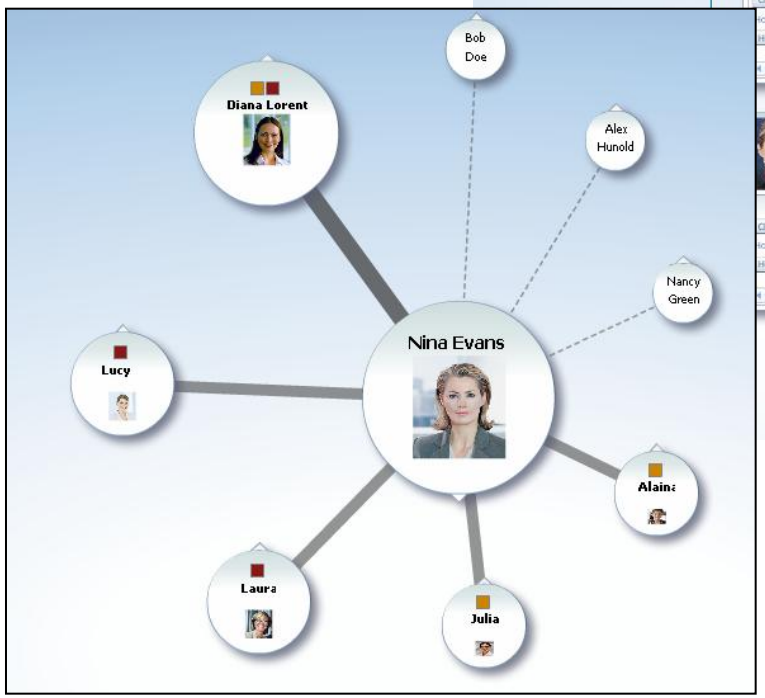
Gantt Chart

- Track tasks and resources on a Time
- Gantt Chart types
  - Project Gantt
  - Scheduling Gantt
  - Resource Gantt



Hierarchy Viewer

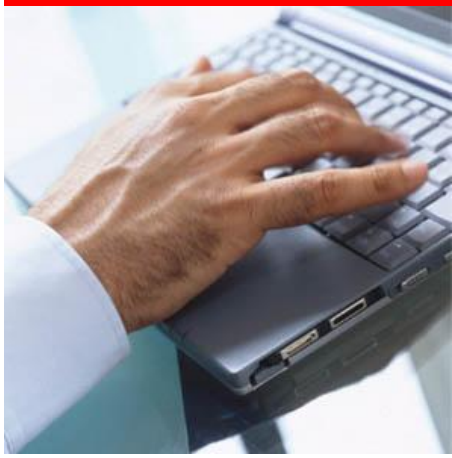
- Drill
- Change Layout
- Zoom
- Cards
- Pop-up



Demonstration

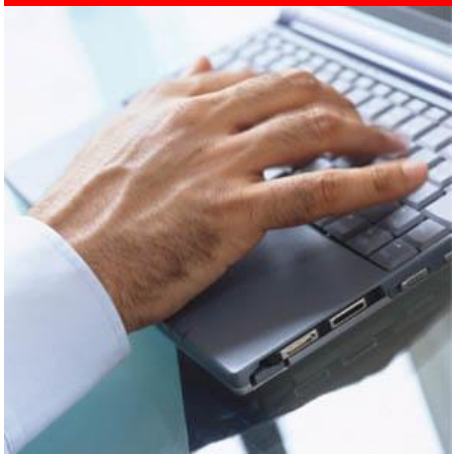
Data Visualization

Conclusion



- Oracle ADF Faces – a Simpler Way to RIA
  - Rich component set
  - Ajax built-in
  - Data visualization
  - Capable underlying framework
  - Easy to develop with

Learn More



- Oracle.com/technology/jdev
  - Download
  - Tutorials
  - Discussion forum
  - Blogs
  - Samples
  - Books
  - More…

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