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Building Web Data Dashboards Without Coding

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Program Agenda

- Introduction
- Overview of ADF Data Visualizations
- Demo: Building a Web 2.0 Dashboard
- Demo: Runtime Visualization Capabilities
- What is Coming: Future Visualizations





“A picture is worth a thousand
words”
- Old Chinese phrase

“...But it consumes 3 times the memory.”
- Old geek phrase

A Common Development Framework

Oracle Application Development Framework

- Increase productivity & ease-of-use
 - Visual and declarative development
 - Takes care of the “plumbing” code
 - Implements best practices
- Promote service oriented development
 - Re-usable business services
 - Composite applications development
- Standards-based
 - Java EE, SOA, SDO/SCA ...
- End-to-end coverage
 - MVC, security, customization



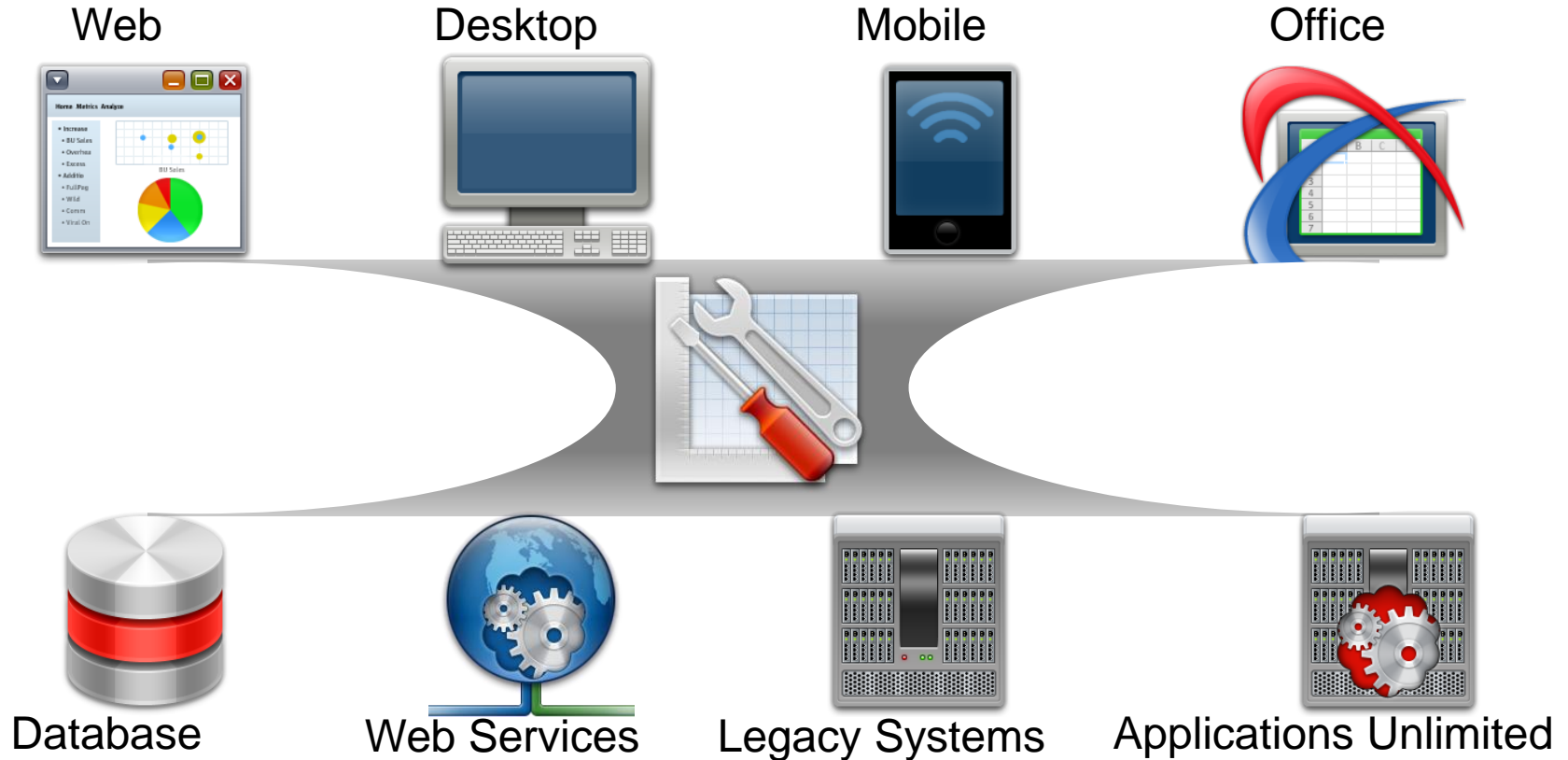
Oracle's Strategic Framework

- ADF is used at Oracle for all “next generation” Web User interfaces
 - Fusion Applications (CRM, HCM etc.)
 - Middleware components (Enterprise Manager, SOA Suite, BI EE, WebCenter)
 - Vertical applications (Insurance, telco, pharma...)
 - Many other applications and products
- Anyone can use this
 - Available to customers and partners as part of the platform

Oracle ADF - Major Benefits

- Faster and simpler standard-based development
 - 30% productivity improvement over .Net
- Rich interactive user interfaces without the cost
- Single set of developer skills
 - Mobile, BI, Geographic Information, Cubic data
- Common infrastructure
 - Declarative customization (company, department, personal, portal)
 - End-to-end security
 - Drag-and-drop binding
 - Reliable certification and support
 - Advanced Tooling

Oracle ADF – Multi Channel Framework



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Oracle Fusion Applications



ORACLE Fusion Applications Reconciliation • Help • Sign Out John H. Smith

Home Navigation • Recent Items • Favorites • Tags • My Hub • Group Spaces Help Search

Order Orchestration

Manage Fulfillment Lines

Advanced Search Save Search All Fulfillment Lines

Search Results

Actions View Panel Schedule Check Availability Print Details Help

Customer All Category All Item All Warehouse All Ordered Date Status

Exception	Source Order Type	Warehouse Name	Customer	Item	Item Description	Ordered Quantity	Status	Requested Ship Date	Scheduled Ship Date
✓	Direct Sales	Gallop Manufacturing	Ypsilon Technologies	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	2	Shipment Delivered	10/01/2010	10/01/2010
✓	Contact Center	Gallop Manufacturing	Ypsilon Technologies	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	7	Assembly	10/01/2010	10/14/2010
✓	Internal Order	Gallop Manufacturing	Oracle Demo Center	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	3	Awaiting Shipment	10/11/2010	10/11/2010
✓	Direct Sales	Gallop Manufacturing	Ypsilon Technologies	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	3	In Manufacturing	10/11/2010	10/11/2010
✓	Direct Sales	Seattle Distribution Center	Accurat Tech	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	6	In Manufacturing	11/06/2010	11/06/2010
✓	Contact Center	Seattle Distribution Center	Accurat Tech	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	2	Shipment Delivered	10/20/2010	10/20/2010
✓	Contact Center	Seattle Distribution Center	Seerway Systems	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	3	Awaiting Shipment	10/20/2010	10/20/2010
✓	Self Service	Seattle Distribution Center	Ypsilon Technologies	799-1425-791	Oracle Exadata Database Machine Full Rack - X2-2	4	Manual Scheduling	11/06/2010	11/06/2010

None Selected Columns Hidden Columns Frozen

Fulfillment Line 1002069 - L1: Details

Analytics

Item

View Data Availability

Item 799-1425-791

Available Quantity Reserved Quantity

Customer

View Open Orchestration Orders For this Customer by Age

Item Count Age in Months

Count of Orders Open Orders

Order

View Fulfillment Line Exceptions For this Order

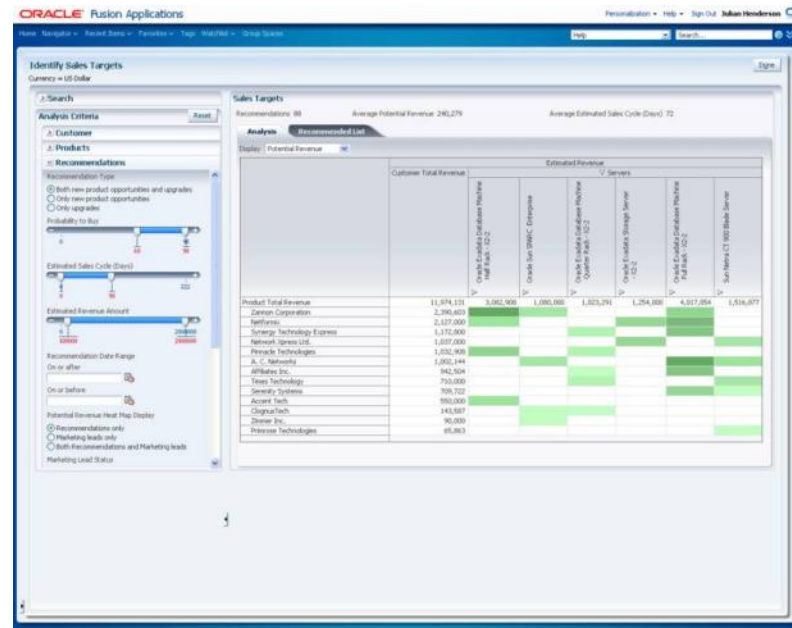
Count First due In progress Backordered On hold

In progress Exceptions

Attributes

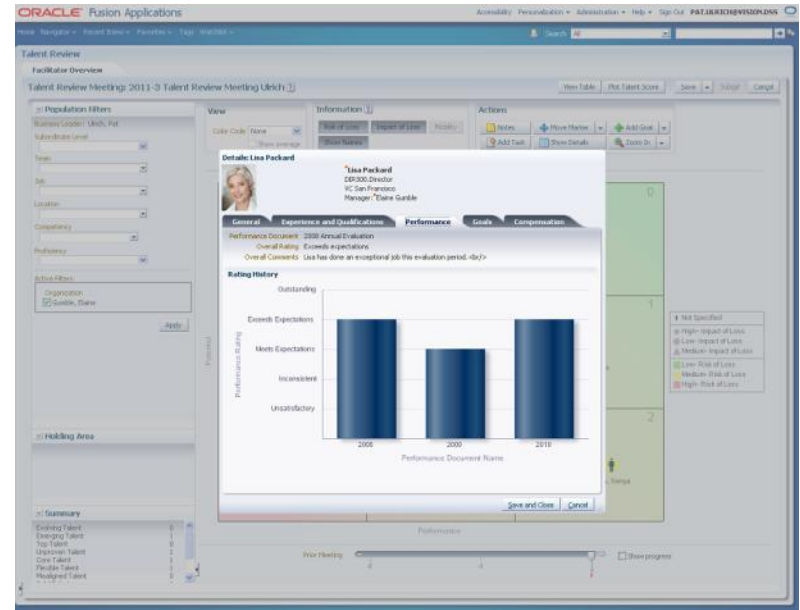
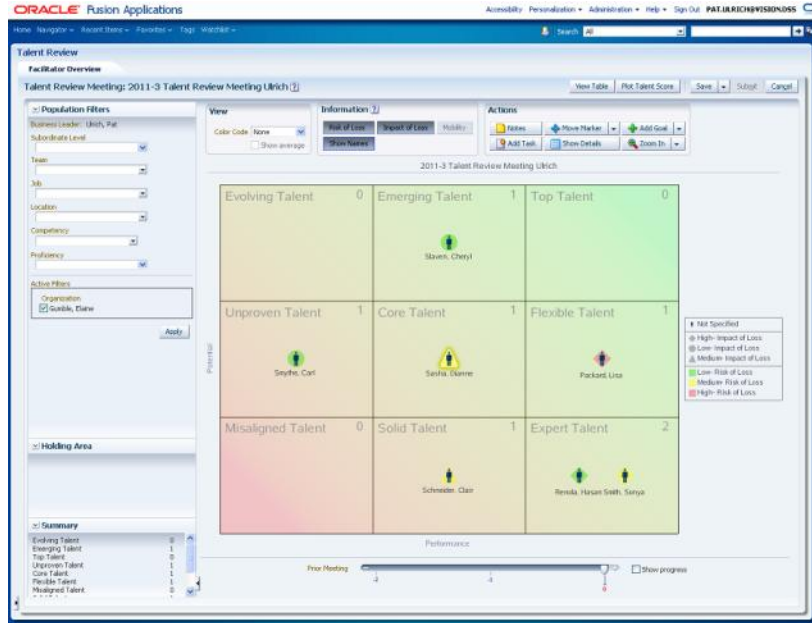
General Scheduling Shipping Item Details Hub

View Panel Print Details Help

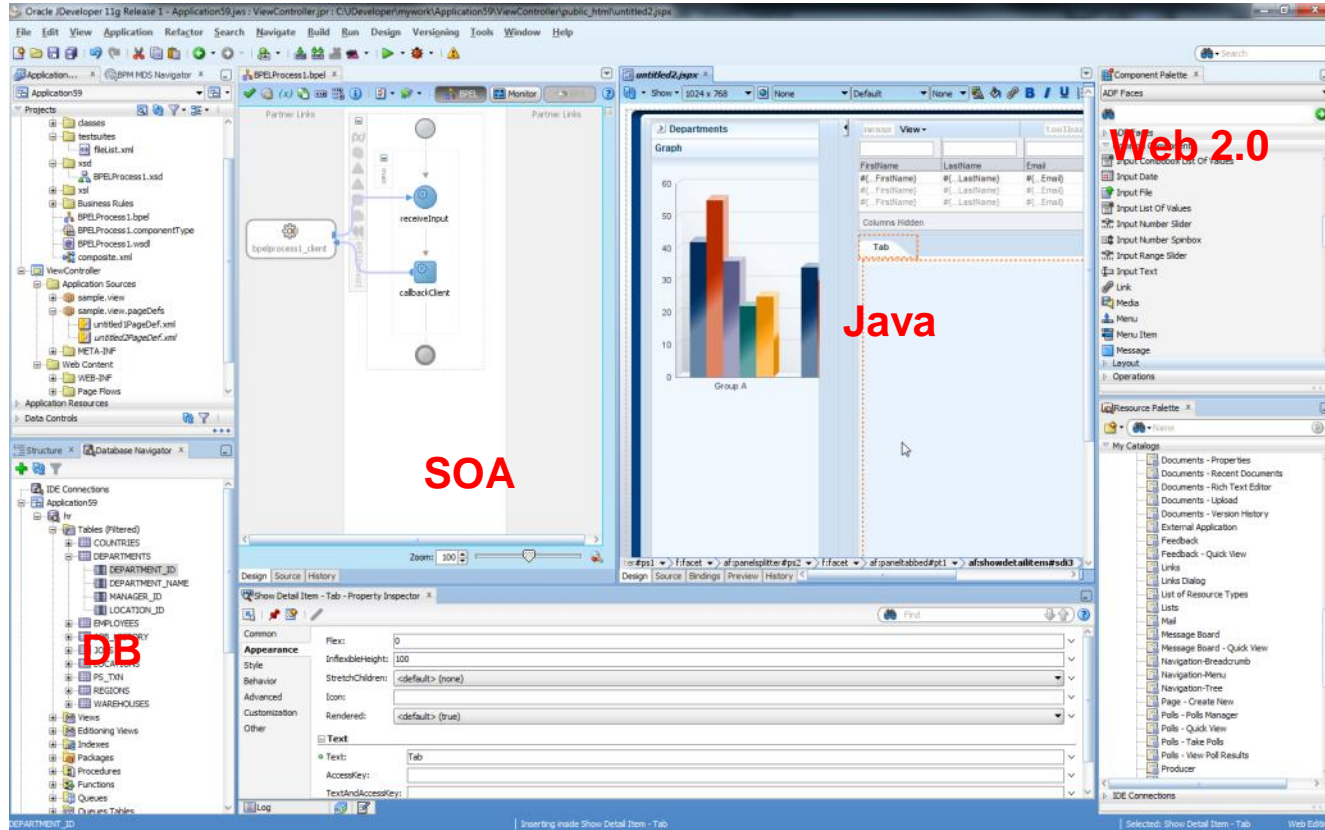


Oracle Fusion Applications

Oracle HCM Talent Review

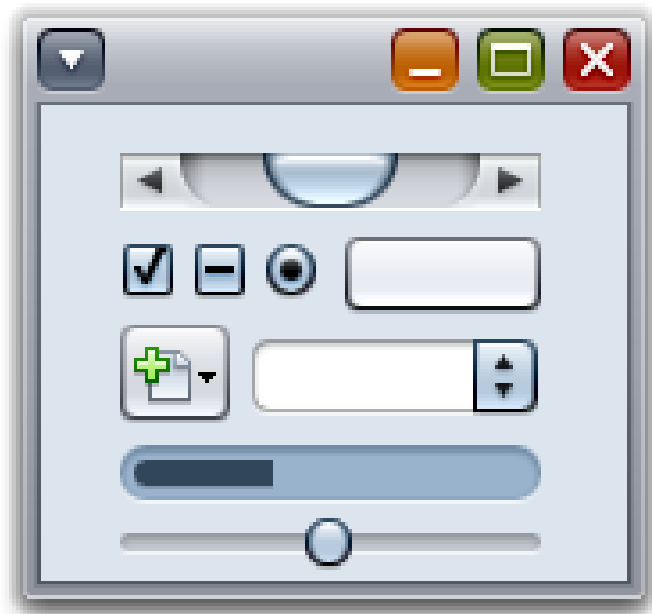


JDeveloper - Unified Visual Development



ADF Faces Rich Client Components

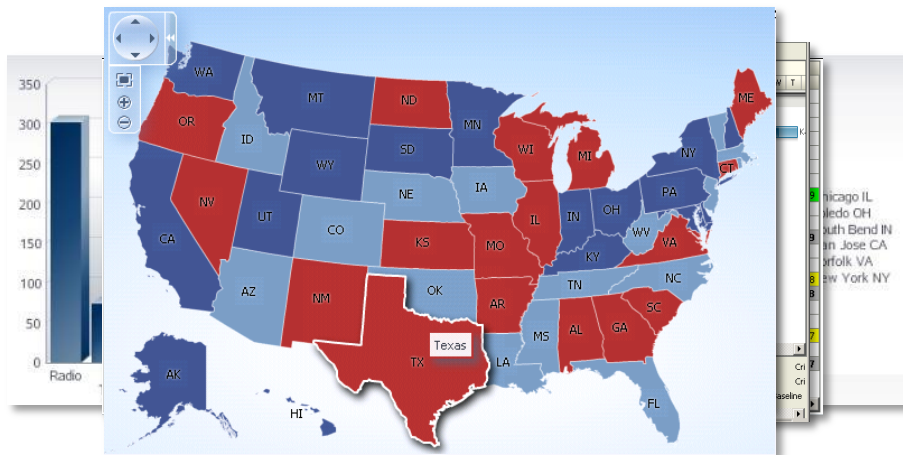
- Component approach to page construction
- Visual and declarative development
- Ajax baked-in the component
- The standard UI platform at Oracle
 - Oracle Fusion Applications
 - Oracle Products
 - Web Center
 - SOA
 - Enterprise Manager
 - More...



ADF Data Visualization Components

Overview

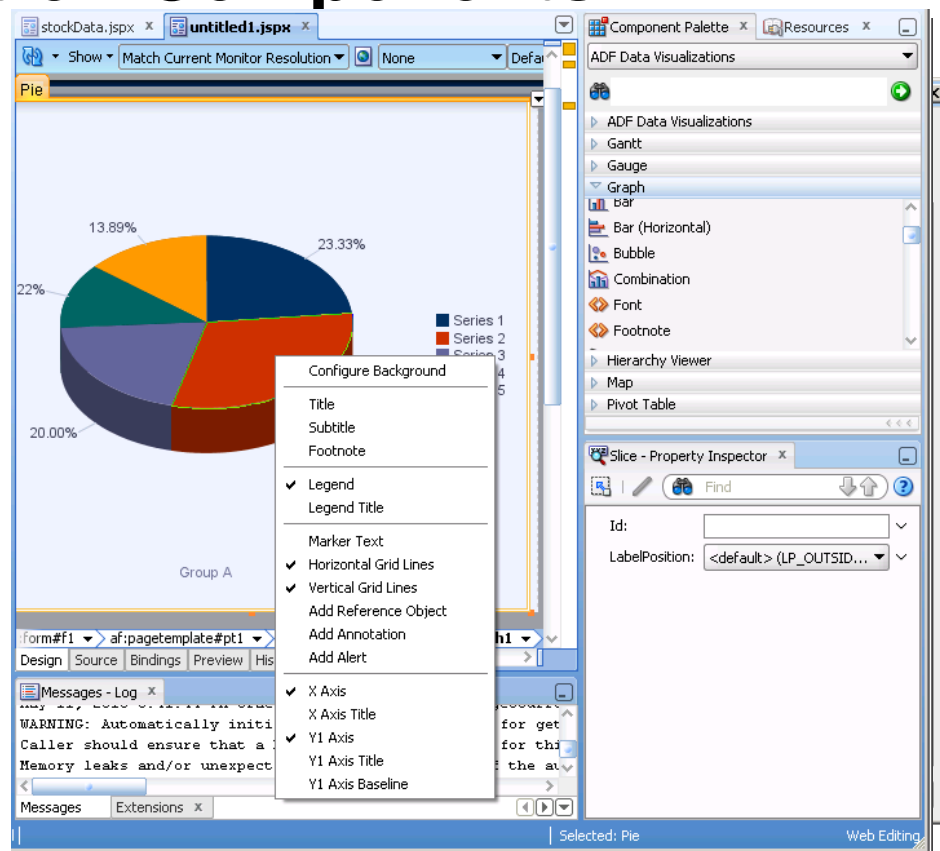
- Rich interactive Java Server Faces components
- Significant graphical and tabular capabilities for analyzing data
- Data Visualization components in JDeveloper 11g:
 - Graph
 - Gauge
 - Geographic Map
 - Pivot Table
 - Gantt Chart
 - Hierarchy Viewer
 - Thematic Map



ADF Data Visualization Components

Common Features

- Declarative development using simplified JSF tags
- Design time creation using:
 - Data Control Palette
 - JSF Visual Editor
 - Property Inspector
 - Component Palette
- Live data preview at design time
- Data Binding access to any rowset or tree data control
- Automatic choice of best rendering technology



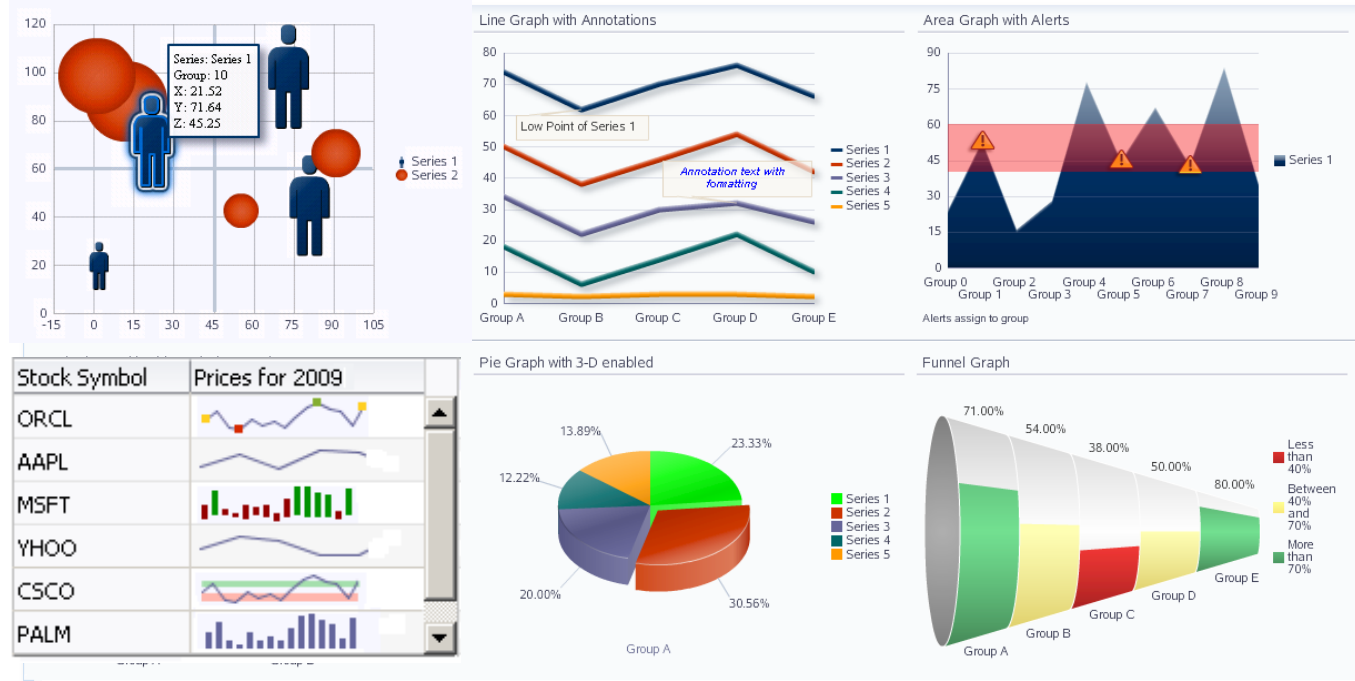
ADF Data Visualization Graph

More than 50 types including pie, bar, line, bubble, funnel, and stock graphs

- Interactivity

- Active Data Enabled
- Animation
- Selection
- Data Highlighting
- Dynamic Reference Objects
- Interactive Pie Slices
- Master-Detail
- Scrollable Legend
- Time Selector
- Zoom and Scroll

- Sparkcharts



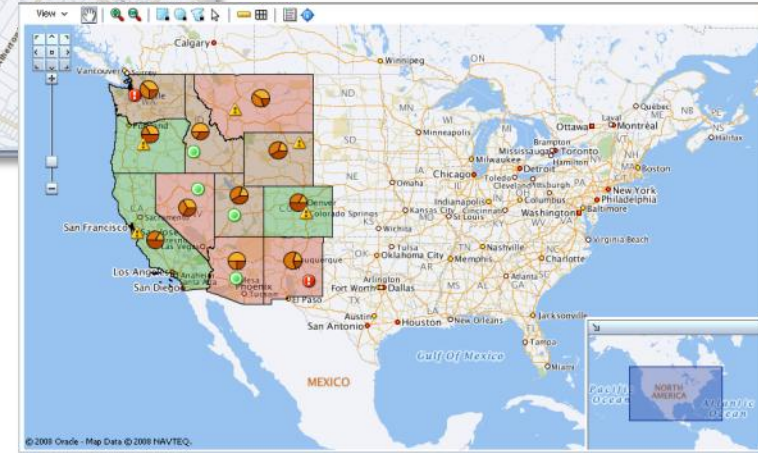
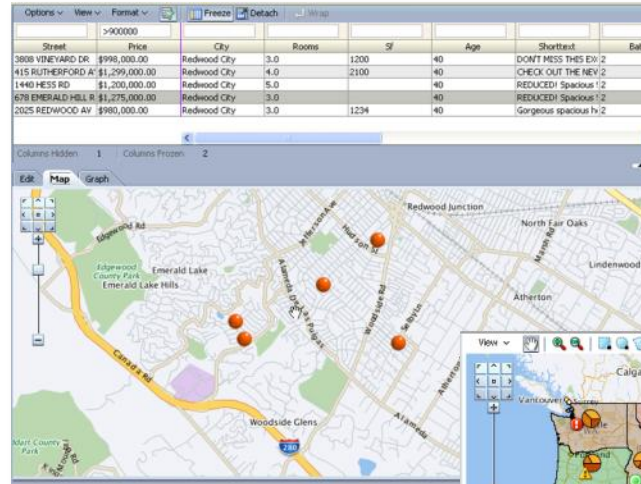
ADF Data Visualization Gauge

- Quickly track key performance indicators
- Available Types:
 - Dial
 - Status Meter
 - Vertical Status Meter
 - LED
 - Arrow, Bulb, Rectangle, Triangle
- Animation and Interactivity
- Custom Graphics Support



ADF Data Visualization Geographic Map

- Functionality of Oracle Spatial within ADF
- View business data on a map
- Format by:
 - Point
 - Color
 - Pie
 - Bar
- Active data support



ADF Data Visualization Pivot Table

- Multiple layers on row and column edges
- Supported features include:
 - Drag and drop pivoting
 - Horizontal and vertical scrolling
 - Cell, row and column selection
 - Header and cell formatting
 - Automatic totals/subtotals
 - Data filtering
 - Drilling
 - Sorting
 - Cell editing
 - Stamping, e.g. data bars in cells
- Pivot Filter Bar

		Sales		Units	
		All Channels		All Channels	
		World	Boston	World	Boston
2007	Tents	20000.0	500.0	200.0	50.0
	Canoes	15000.0	1500.0	75.0	8.0
2006	Tents	10000.0	250.0	100.0	25.0
	Canoes	7500.0	750.0	40.0	4.0
2005	Tents	5000.0	125.0	50.0	15.0
	Canoes	3750.0	375.0	20.0	2.0

				Dollars	Units	Dollars/Units
Gloss	1998	CENTRAL REGION	Enterprise			
		EASTERN REGION	Enterprise			
		SOUTHERN REGION	Enterprise			
		WESTERN REGION	Enterprise			
	1999		Magicolor			
		CENTRAL REGION	Enterprise			
		EASTERN REGION	Enterprise			
		SOUTHERN REGION	Enterprise			
			Magicolor			
		WESTERN REGION	Enterprise			
Flat	1998	CENTRAL REGION	McCloskey			
		EASTERN REGION	McCloskey			
			Valspar			
		WESTERN REGION	McCloskey			
	1999	CENTRAL REGION	McCloskey			
			Valspar			
		EASTERN REGION	McCloskey			
			Valspar			
		SOUTHERN REGION	McCloskey			
		WESTERN REGION	McCloskey			
Primer	1999	EASTERN REGION	McCloskey			
		SOUTHERN REGION	McCloskey			

Filters

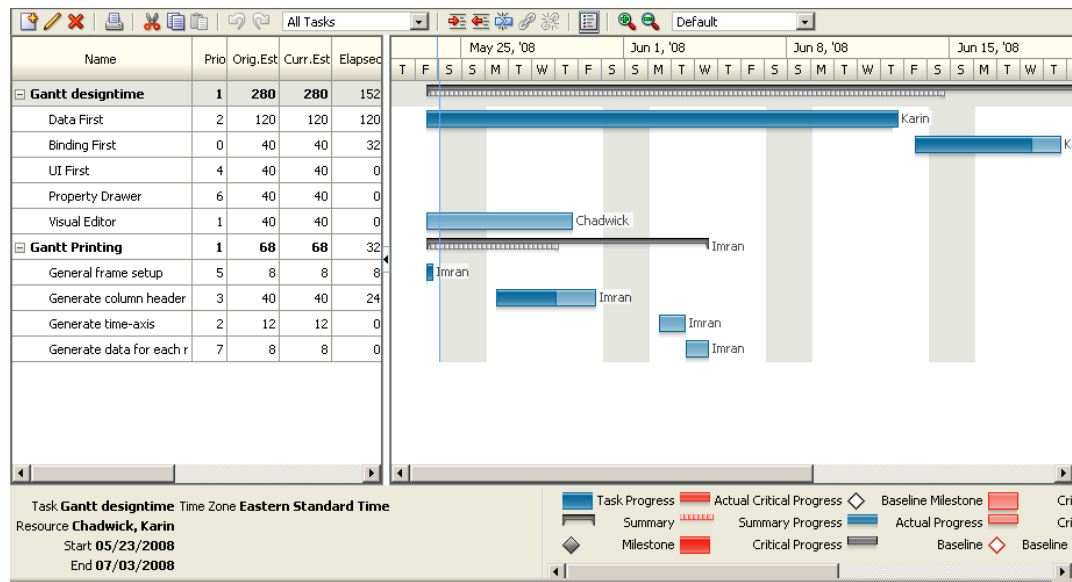
Direct

Massachusetts

		Audio Components	Video Components	Gaming
▼ First Quarter	January	5,000	10,000	
	February	5,400	14,000	
	March	5,800	18,000	
▼ Second Quarter	April	2,000	10,000	
	May	2,400	14,000	
	Jun	2,800	18,000	
▼ Third Quarter	July	5,000	10,000	
	August	5,400	14,000	
	September	5,800	18,000	

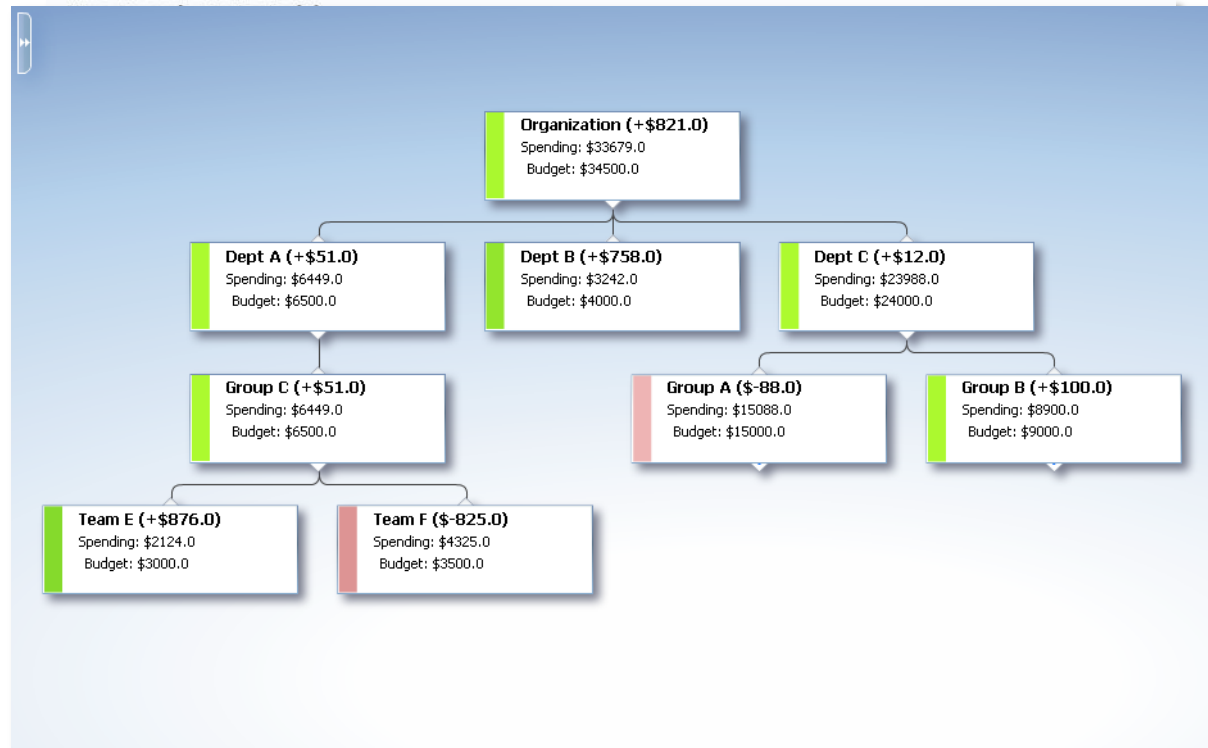
ADF Data Visualization Gantt Chart

- Track tasks and resources over time for project planning
- Project Gantt (project management)
- Scheduling Gantt (resource management)
- Resource Utilization Gantt (resource utilization)



ADF Data Visualization Hierarchy Viewer

- View hierarchical data
- Often used for org charts
- Features:
 - Multiple PanelCards for details
 - Multiple layouts
 - Progressive disclosure of details
 - Expand/collapse nodes
 - Rendering simple ADF components inside the nodes
 - Search



Features:

- [illegible]

Demonstration

Building a Web 2.0 Dashboard

ADF Faces and DVT Demo

- Component gallery and feature demos for ADF Faces and DVT features
- View page source directly from the demo
- Available to download and deploy, complete with source code
- Find the [demo and instructions](#) on OTN JDeveloper site under Sample Applications



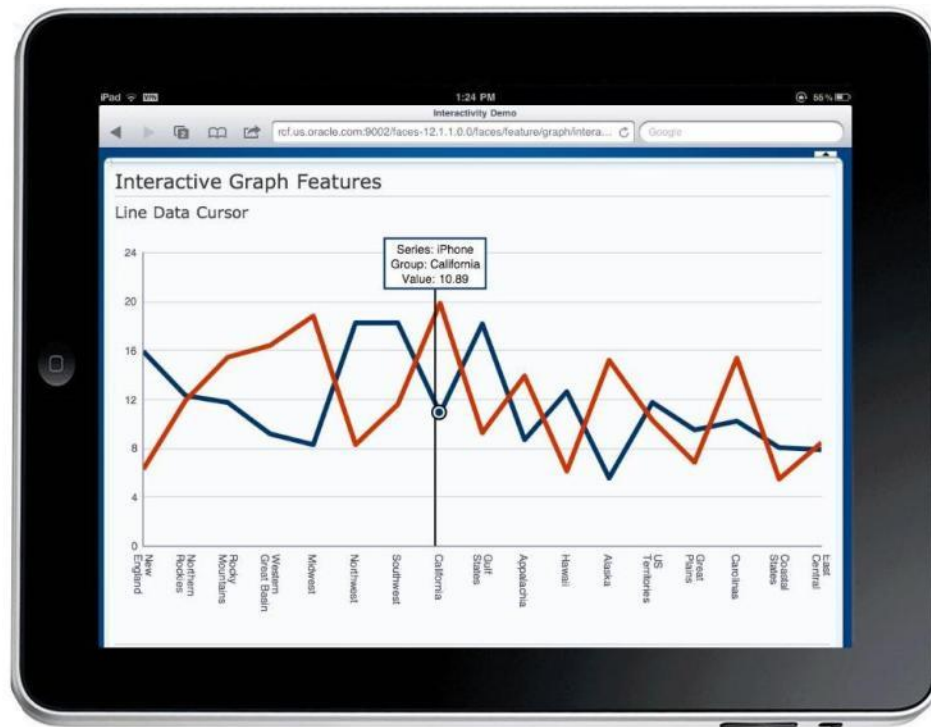
Demonstration

Data Visualizations Runtime Features

ADF Data Visualizations Future

Support for Mobile Platforms

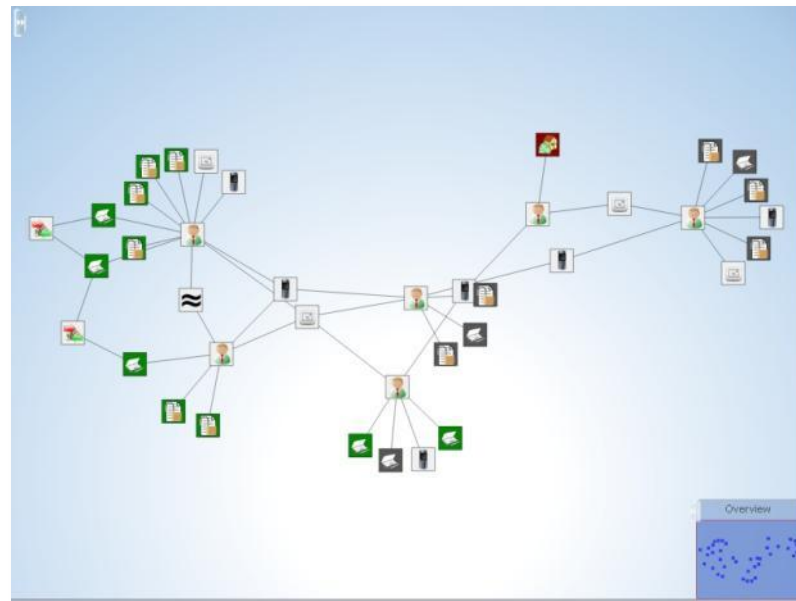
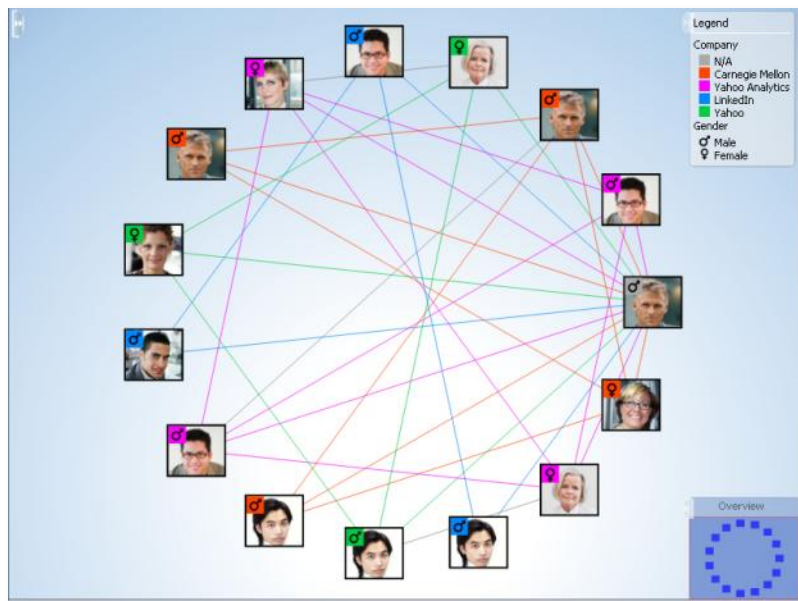
- Touch and iOS support coming up in a future release
 - HTML5 rendering
 - Interactivity and touch support for mobile devices



ADF Data Visualizations Future

Diagrammer

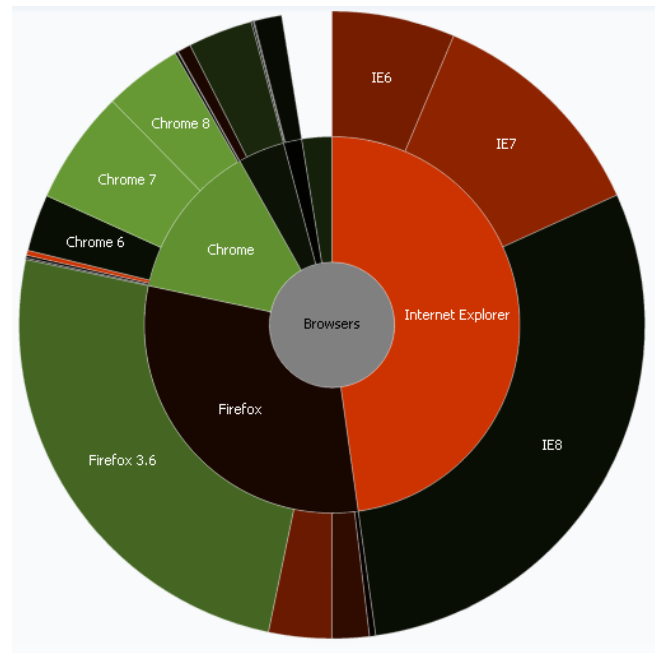
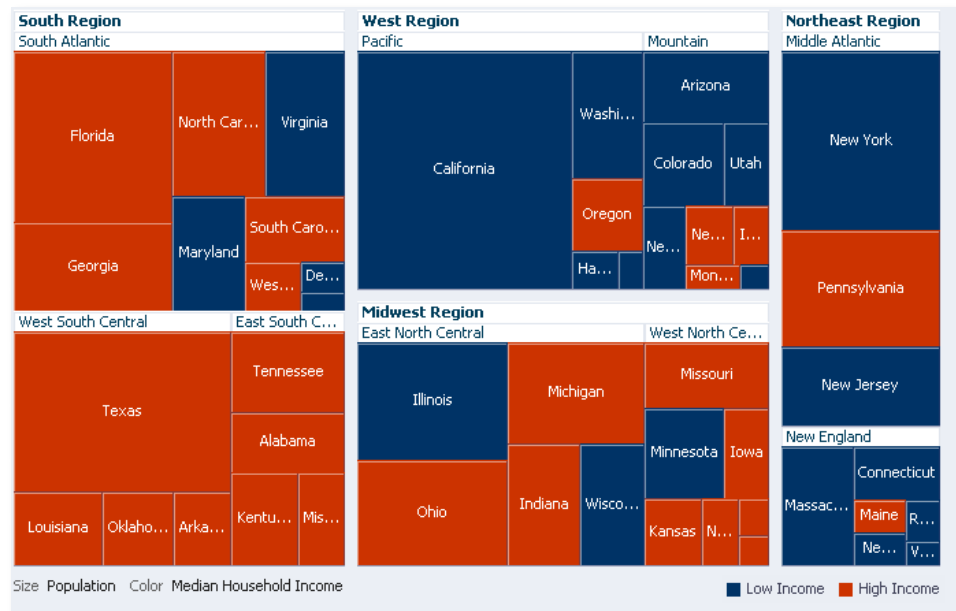
- Network of nodes that can be arbitrarily linked together



ADF Data Visualizations Future

Treemap and Sunburst

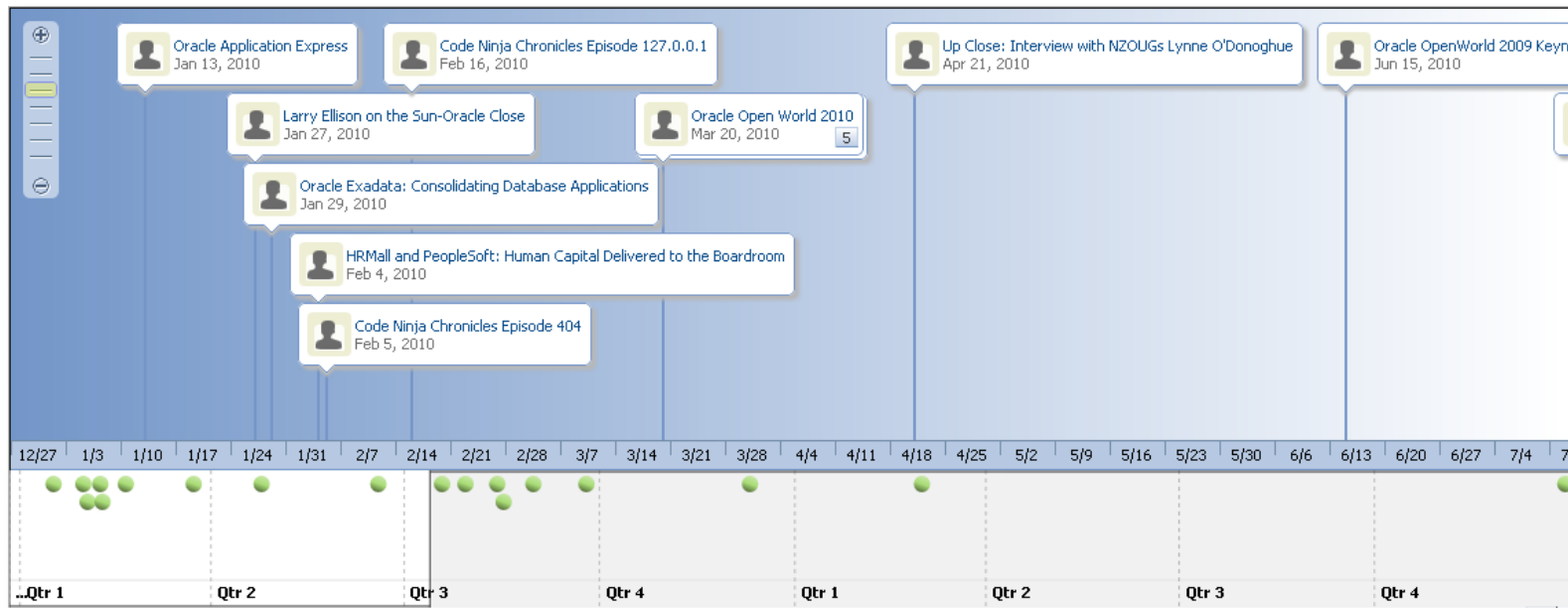
- Display hierarchy using color and size of the nodes to convey information



ADF Data Visualizations Future

Timeline

- Visualizes events on an interactive time line



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Oracle's JDeveloper PM blog

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ADF Developer Newsletter

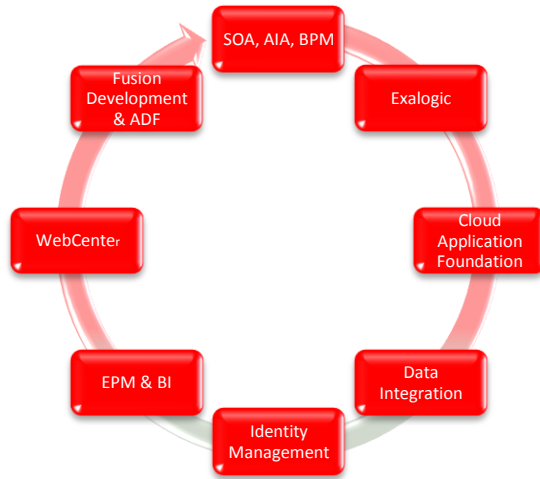
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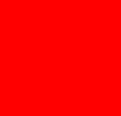


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