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La Plataforma de Desarrollo para Oracle Fusion

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Oracle JDeveloper and Oracle ADF

- Integrated development environment
  - Full life cycle
  - Full set of technologies
- Simpler development
  - Visual and declarative
  - Oracle ADF – end to end framework
- Increased productivity
- Standards based

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Oracle JDeveloper - Enterprise IDE

- Java EE
- Web User Interfaces
- Web Services
- SOA
- WebCenter / Portlets
- Database
- XML

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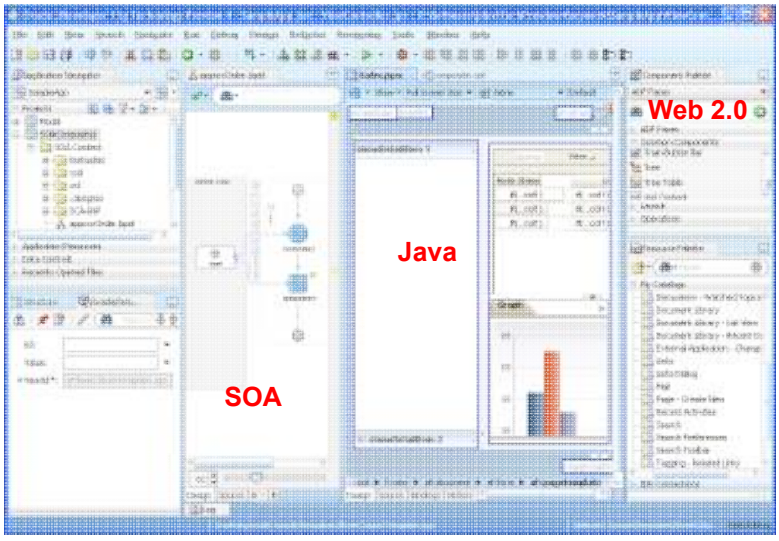
JDeveloper - Unified Visual Development



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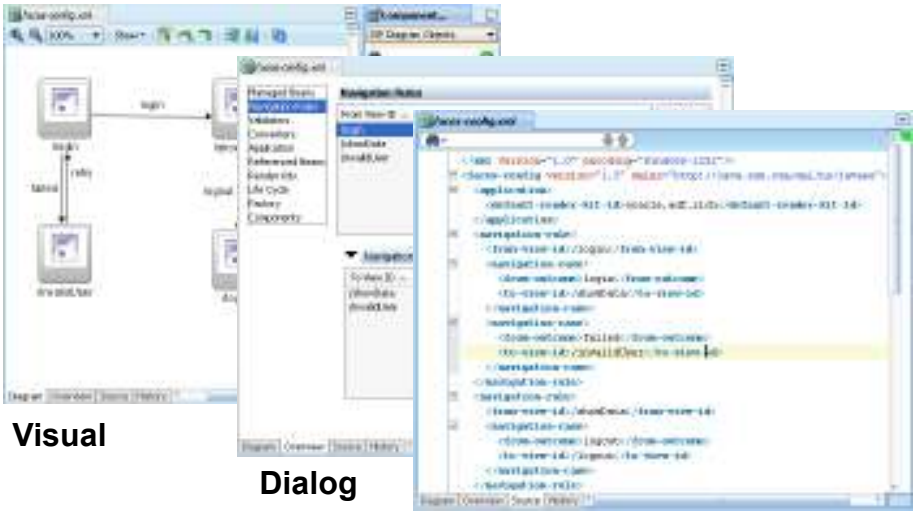
Choice of Development Styles



Visual

Dialog

Code

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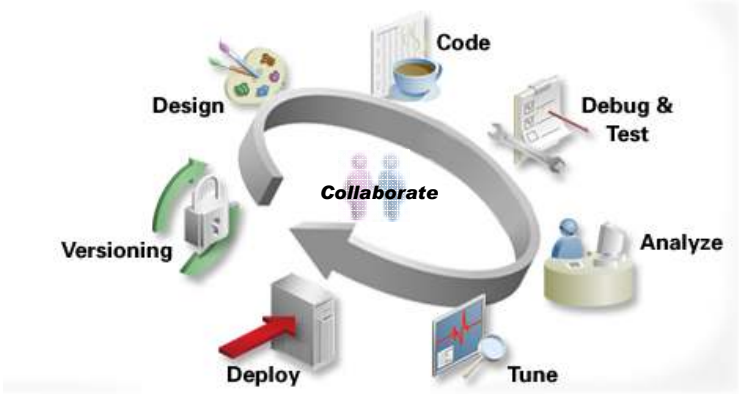
Full Lifecycle Support



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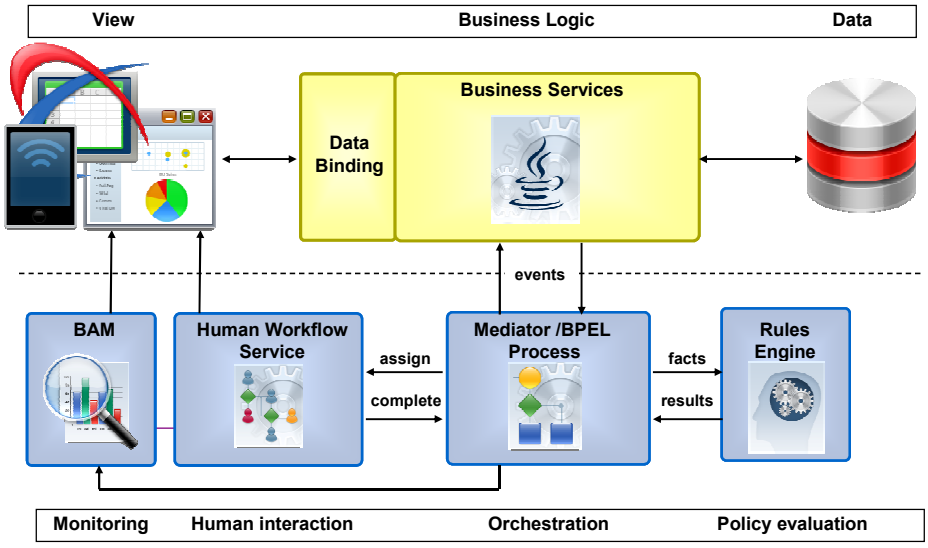
The Fusion Architecture



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Oracle ADF

Oracle's Application Development Framework

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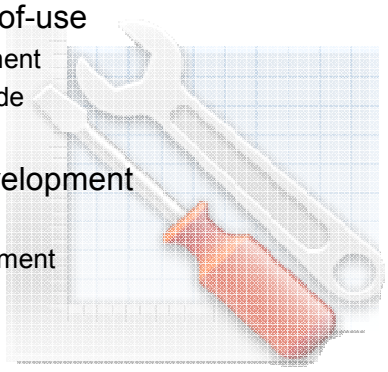
A Common Development Framework

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



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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, administration consoles etc)
  - Vertical applications (Insurance, telco, pharma…)
  - WebCenter Spaces and Services
- Anyone can use this
  - Available to customers and partners as part of the platform

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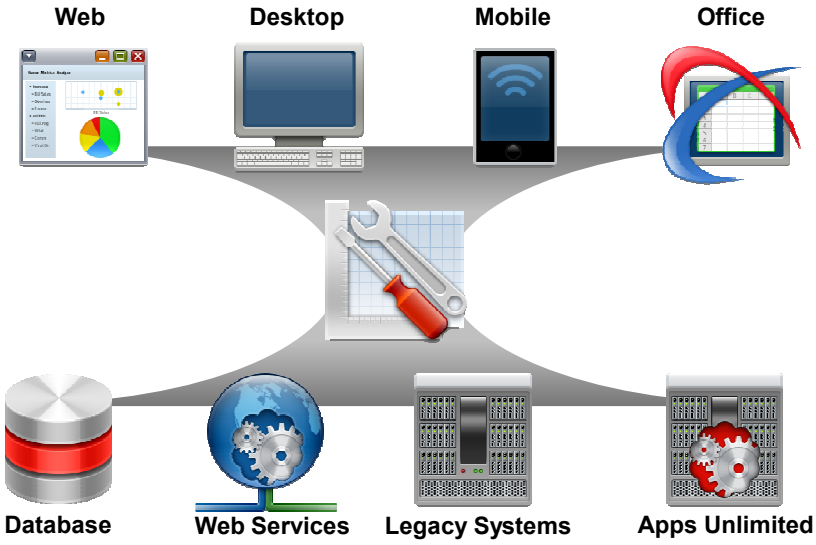
Oracle ADF - Common Binding



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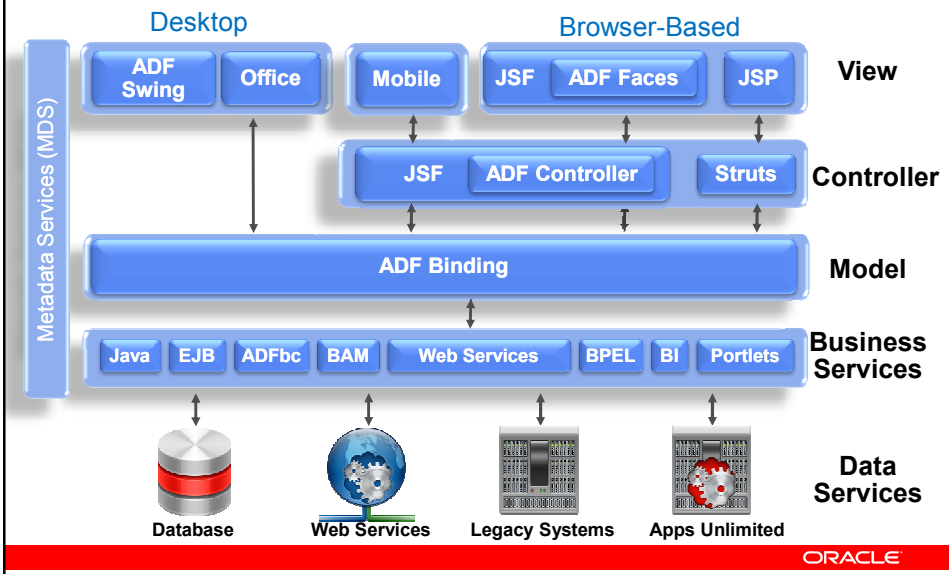
Oracle ADF - The Bigger Picture



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ADF – Simplification in Each Layer

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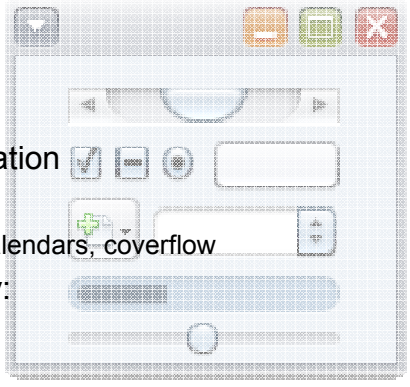
ADF Faces Rich Client Components

- Over 150 components
- Ajax enabled
- Pluggable look and feel
- Accessibility & internationalization
- The usual components plus:
  - Charts, gantt, geo-map, pivot, calendars, coverflow
- Built in advanced functionality:
  - Drag and drop framework
  - Dialog and pop-up framework
  - “Active Data” - Dashboards / push updates (comet)
  - Templating and declarative components



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Fusion Applications
HCM

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Fusion Applications
Projects

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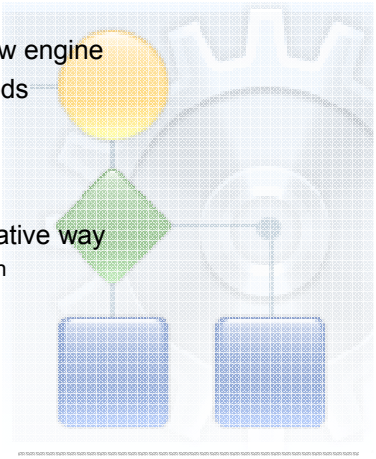
ADF Controller

- An extension to the JSF page flow engine
- Define flows of pages and methods
- Diagram your process
- Build reusable task flows
  - In other flows, inside other pages
- Advance functionality in a declarative way
  - Transaction, initialization, Back button



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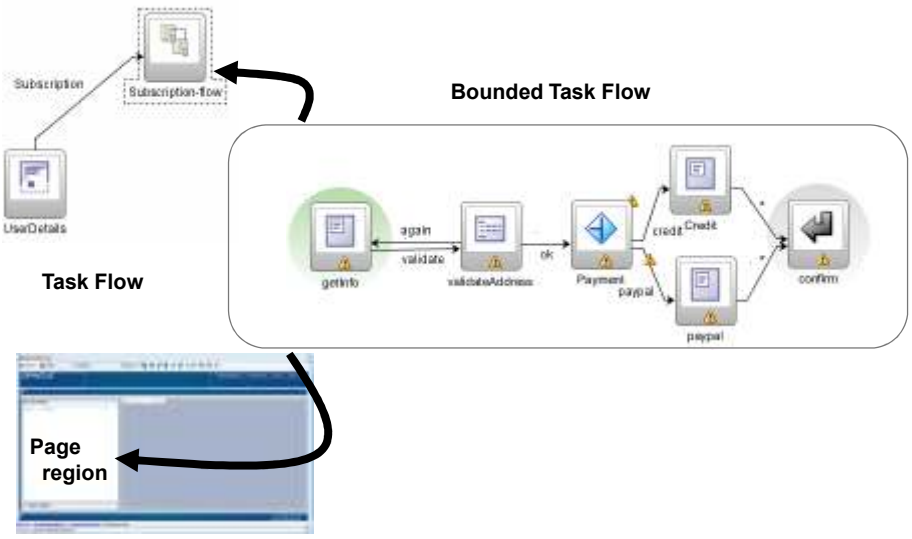
Task Flows - Reusable Page Flows



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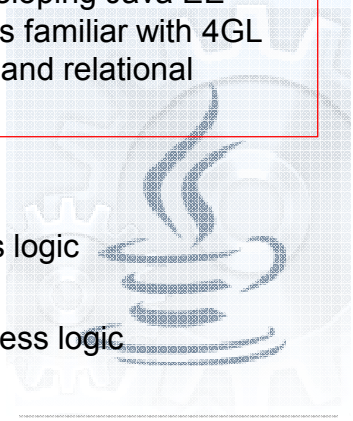
ADF Business Components

A framework that simplifies developing Java EE business services for developers familiar with 4GL tools, declarative development, and relational databases



- Simplify data access
- Simplify validation and business logic
- Uses SQL based data views
- Separate data views from business logic
- Implement best practices
- Easy customization

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ADF BC - Making Things Simpler

- Query by example any field
- Master/Detail coordination
- List of values
- Calculated fields
- Various validations
- Exposing services
- Range fetching
- Web service interfaces
- Transaction control
- Locking mechanism
- State management
- All done declaratively without coding!

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ADF BC Familiar Concepts for Forms/4GL Developers

- Declarative DB access definition – similar to blocks
- Built in events – similar to triggers in Forms
- Declarative property setting for attribute
- Declarative validation
- Declarative LOV
- Declarative calculated fields
- Built in query by example
- Find/Execute query support
- Reusable property sets
- Transaction management using commit/rollback

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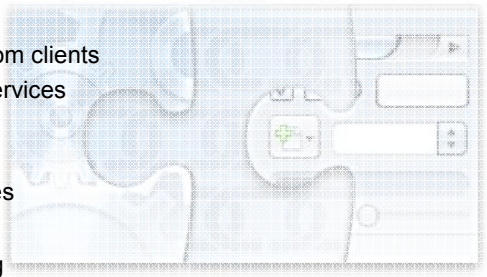
ADF Model - Data Binding

- ADF Model
  - JSR-227 Data Controls
- Service Oriented Interface
  - Abstract implementation from clients
  - Loose coupling between services and application
- More Reusability
  - Discover and share services
- More Productivity
  - Drag and drop data binding
  - Declarative validation
  - Control hints



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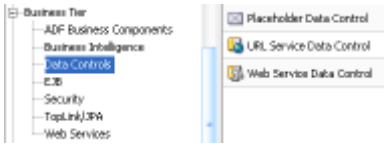
ADF 11g Built-in Data Controls

- ADF Business Components
- Java Class
- EJB
- Web Service
- URL (XML or CSV)
- Essbase
- Place Holder
- Add your own



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Oracle ADF Demonstration

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Additional Core Capabilities

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Mobile Development Challenges

- **Duplicating development efforts**
  - Different tools and environment for different mobile devices and channels (on-device vs. web)
  - Different frameworks for native/on-device vs. web based mobile applications
- **Code-driven development paradigm**
  - Java (ME and SE), Objective C, C++, etc.
- **(Re)build all application services from the ground up**
  - For application logic services, view services, etc.
- **Proprietary frameworks and technologies**

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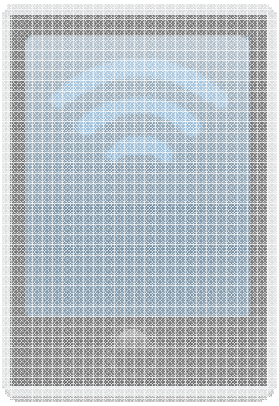
Oracle ADF Mobile

- Two approaches:
  - ADF Mobile Browser
  - ADF Mobile Client
- Extend your existing application
- Reuse business services
- Same development concepts



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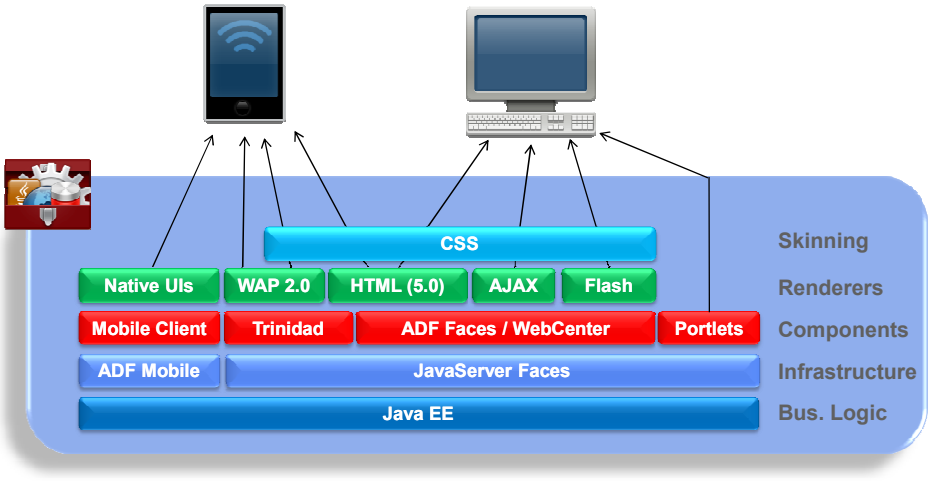
Multi-Channel Development
A Single Programming Model



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ADF Mobile Browser

- Delivers mobile-optimized native look-and-feel user interface to mobile browsers
- Adjusts to device's browser capabilities

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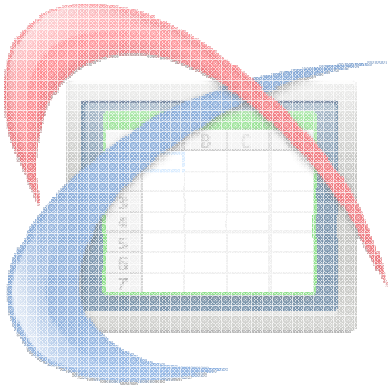
ADF Desktop Integration

- Excel Spreadsheets connected to Java Business services through ADF binding
- Familiar working environment
- Connected or disconnected
- Leverage business services and security from your application



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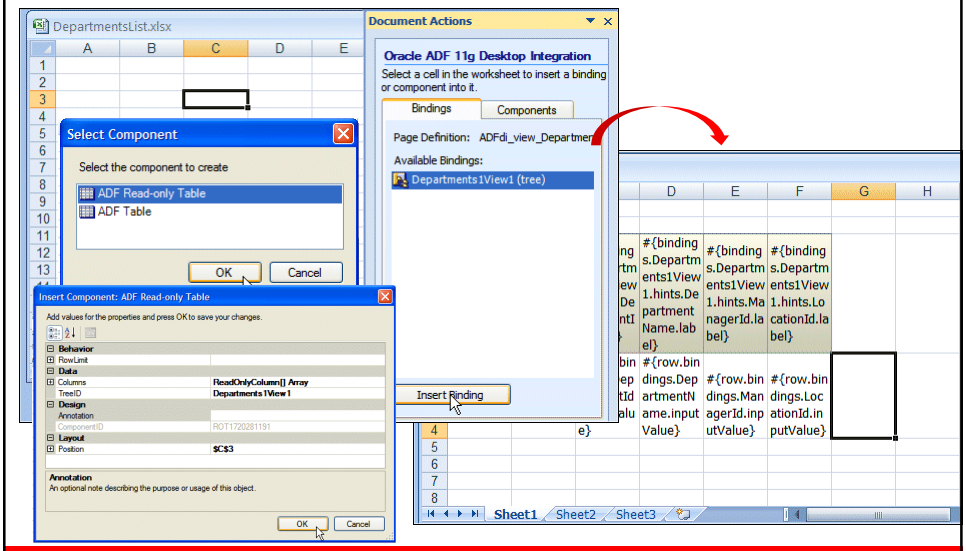
UI Development in Excel



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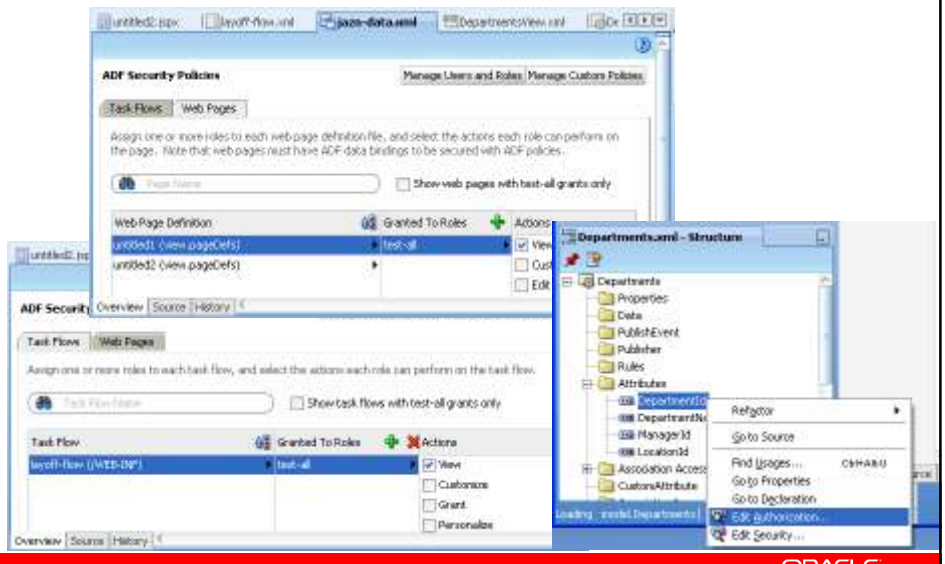
ADF Security - End-to-end Security



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Summary

- Oracle JDeveloper provides a truly integrated development environment
- Oracle ADF provides simpler development with a complete framework

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Question & Answers

- Oracle.com/technology/jdev
- Demos
- Tutorials
- Blogs
- Samples
- Documentation
- More…

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