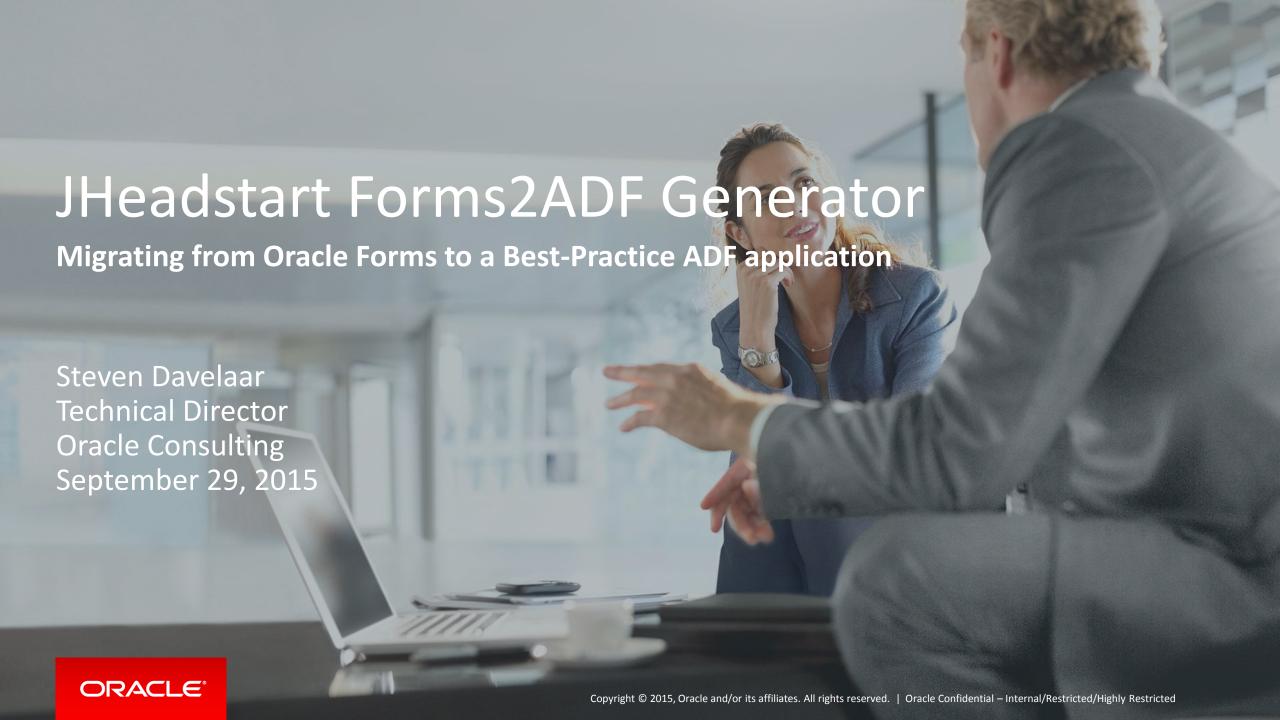
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Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.





Agenda

- Forms Modernization Strategy
- What is JHeadstart?
- Forms2ADF Migration Process
- Migration Result
- Case Studies



Before we start – Define a Forms modernization strategy!

- Where are we now?
 - Analyze current situation
- Where do we want to go?
 - Identify top business drivers / business benefits
- How do we want to go?
 - Identify and choose modernization options
- What do we need to do when and with whom?
 - Define modernization approach/timeline/project plan



Different Options

- 1. Do nothing
 - No benefits, higher maintenance costs
- 2. Migrate to latest release of Oracle Forms
 - Forms still supported, 12c release planned
- Move to Oracle Application Development Framwork (ADF)
 - Strategic Direction of Oracle, basis for Oracle Fusion Applications
- 4. Move to Oracle Application Express (APEX)
 - Reuse PL/SQL knowledge
- 5. Move to Standard applications on premise or SAAS
 - When there is a high functionality fit



Guidelines for different options

Situation	1. Do Nothing	2. Latest Forms release	3. ADF	4. APEX	5. Standard app/ SAAS
Migration Costs as low as possible	+++				
Supported environment required		+++	+++	+++	+++
New functionality required	-	+	+++	+	+ ?
Integration with Fusion Middleware required		+	+++	+	++
Improvement to UI required		+/-	+++	++	+
Self Service/Mobile Extensions		+	+++	++	+ ?
Higher Developer Productivity needed	-	+	+++	+++	n/a

What is JHeadstart?

- JDeveloper extension automation of ADF development tasks
 - Development Toolkit on top of ADF
 - Builds on ADF Runtime architecture
 - Fully integrates with ADF Design Time
- Takes declarative development to the next level
 - Generates complete ADF applications
 - Like Designer generates Forms, JHeadstart generates ADF apps
 - Implements Oracle Consulting's best practices
- Transforms Oracle Forms into ADF applications





Oracle JHeadstart - Benefits

- Best Practices Auto Implemented
- Increased Developer Productivity
- Newbie can be productive fast
- Generation provides consistency
- Easy maintenance metadata
- New UI technology just generate again!
- Easy to learn for Forms developers

- Application generated as would have been done when built from scratch
- Reusable components save months
- Enables rapid prototyping
- Prototype evolves in working system
- Forms2ADF protects investment
- Standards based



JHeadstart – Main Components

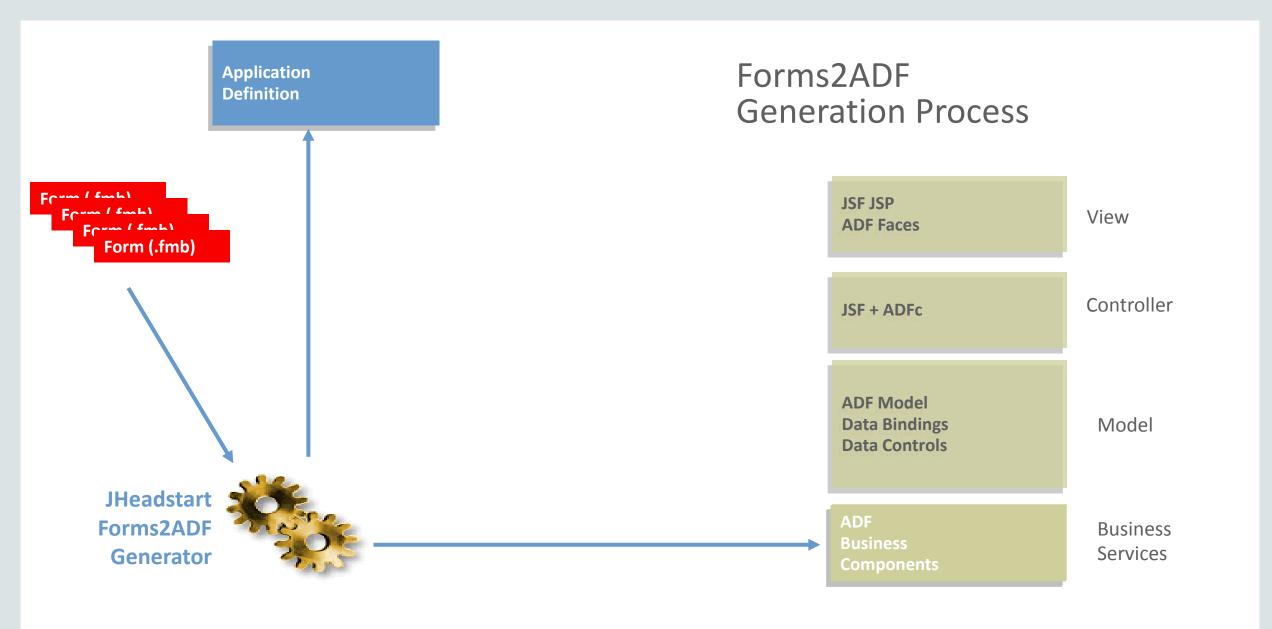
- JHeadstart Application Generator (JAG)
 - Generates best-practice web application
- JHeadstart Utilities
 - Automate other ADF development tasks
 - Perform quality checks
- JHeadstart Runtime
 - Reusable components to implement complex functionality
 - Auto-implements host of best practices
- JHeadstart Forms2ADF Generator

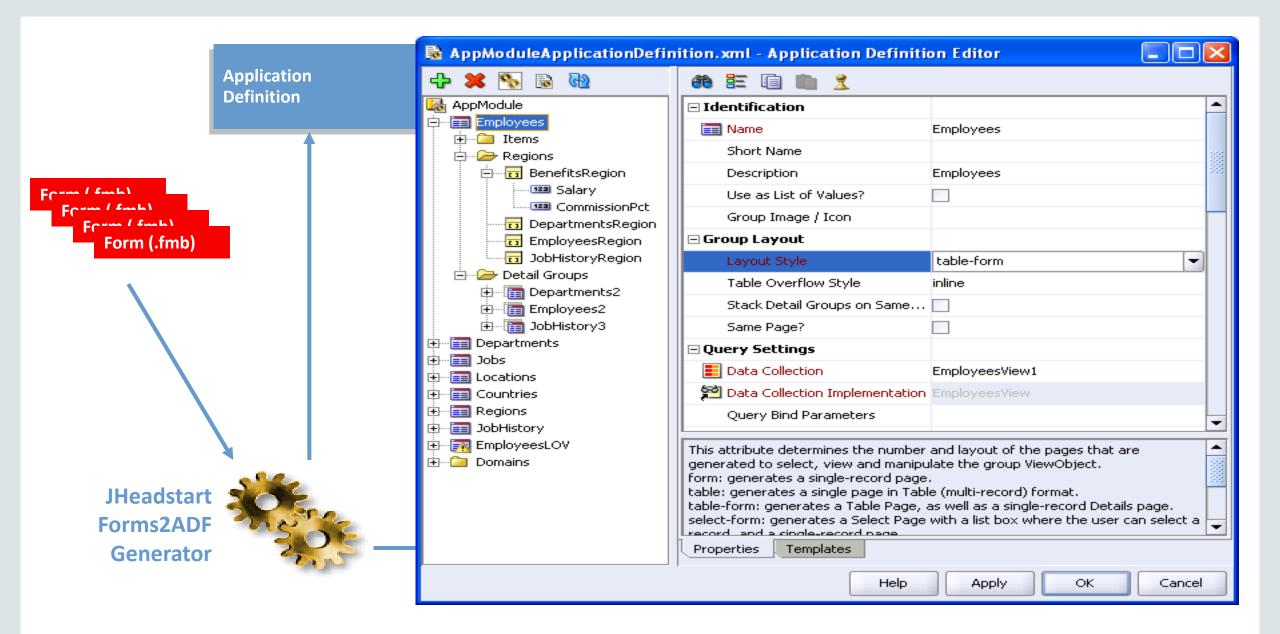


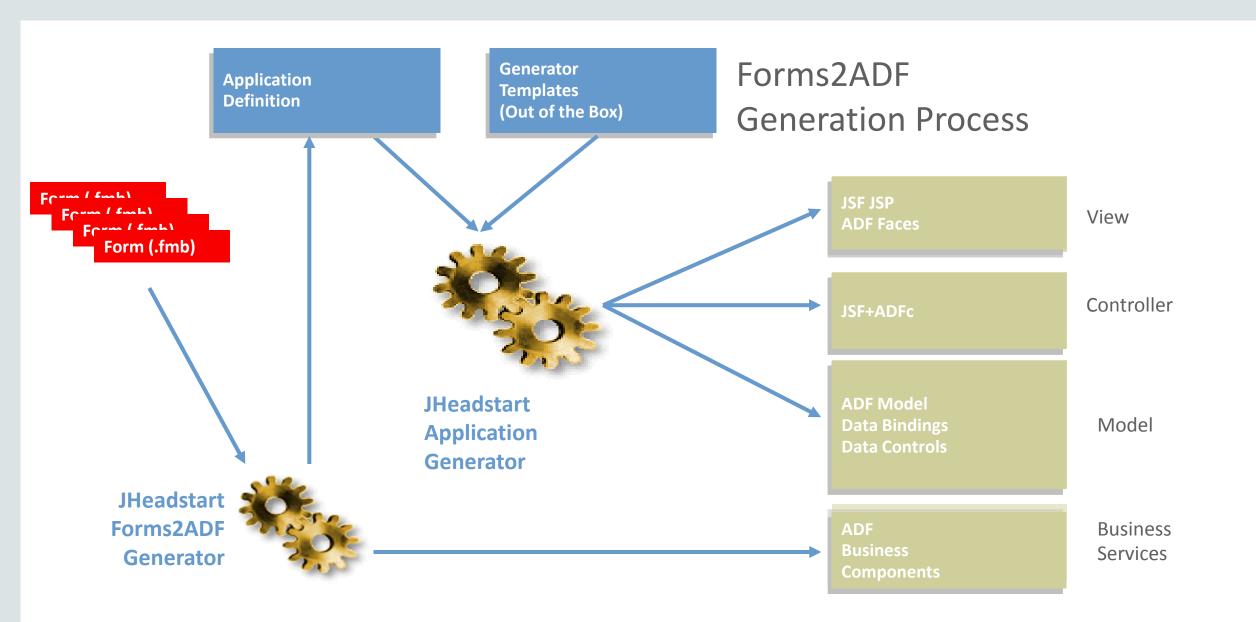
- Create fully-functional ADF app based on forms definitions
- JHeadstart Developer's Guide











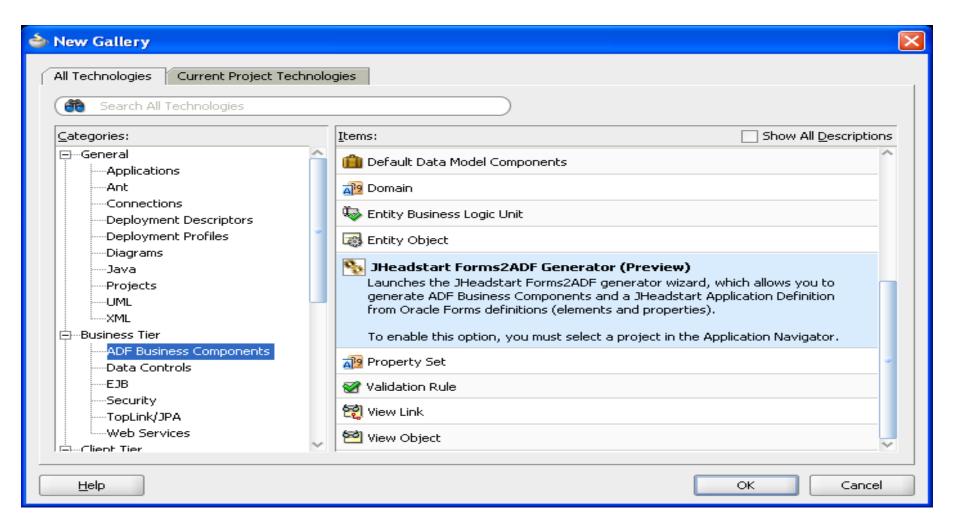


JHeadstart Forms2ADF Generator

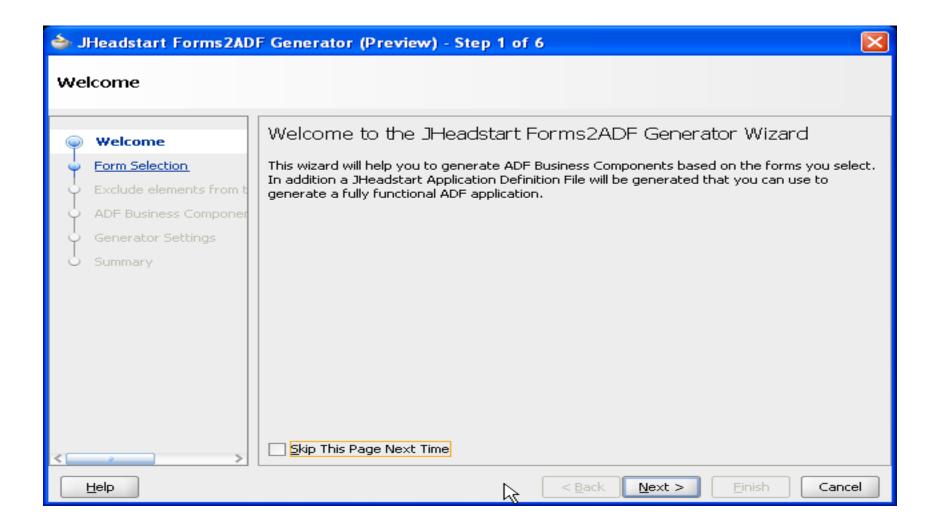
- Generates ADF Business Components (BC) based on Forms Data Usages
 - ADF BC Entity Objects created for used tables
 - ADF BC View Objects created for blocks and record group queries
 - Model LOV's created for each LOV / Record Group
 - ADF BC Application Module created for each form
- Extracts Forms User Interface Definitions into JHeadstart Application Definition
 - Groups created for each block
 - Group Items created for each item in a block
 - (Stacked) region containers and regions created based on item placement on (tabbed) canvasses
 - Domains created based on forms item allowable values
 - PL/SQL logic copied as "documentation" nodes



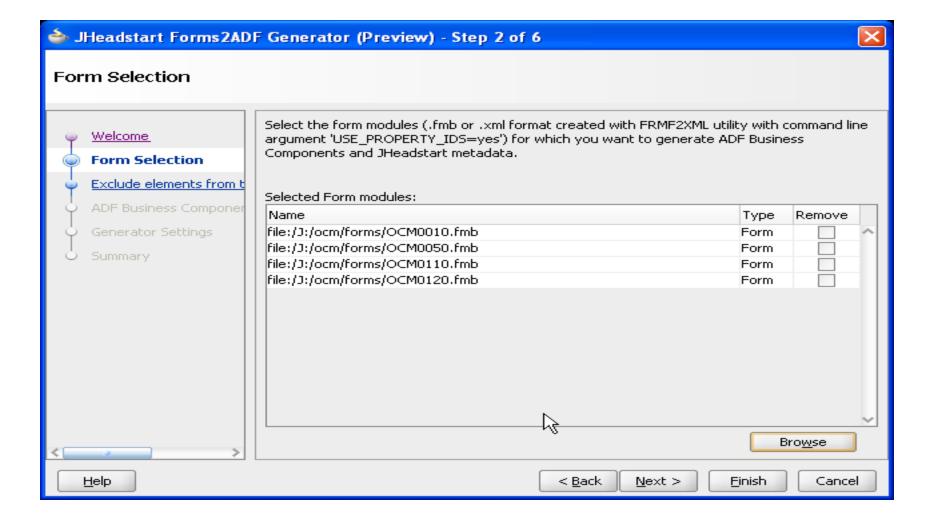
In JDeveloper Run the Forms2ADF Generator



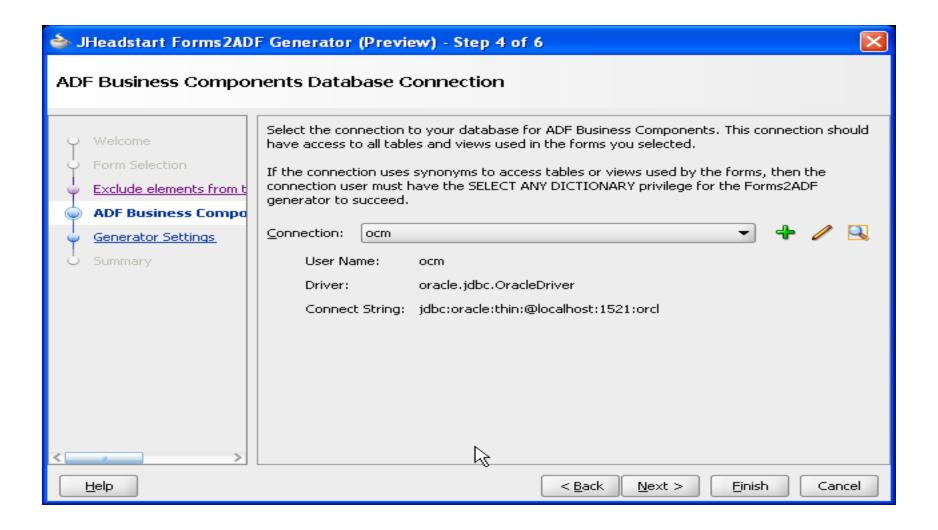
Start the Forms2ADF Wizard



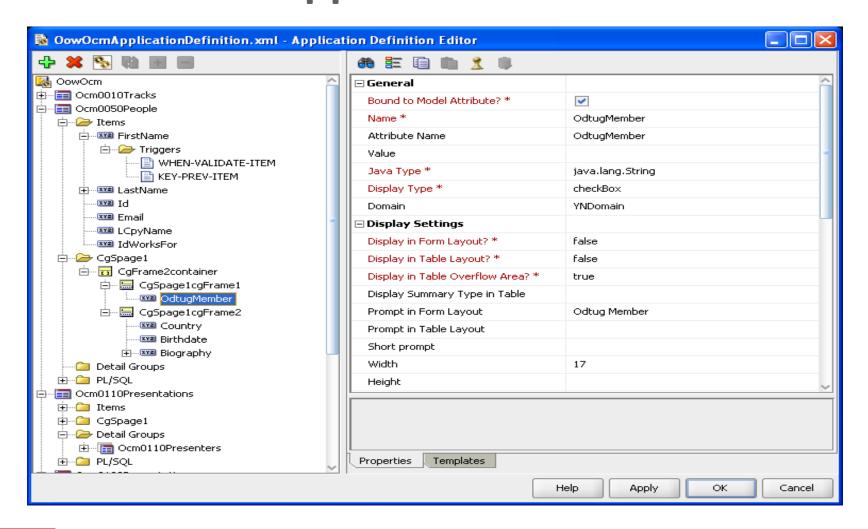
Select the Forms to be migrated to ADF



Connect to the Database and Finish

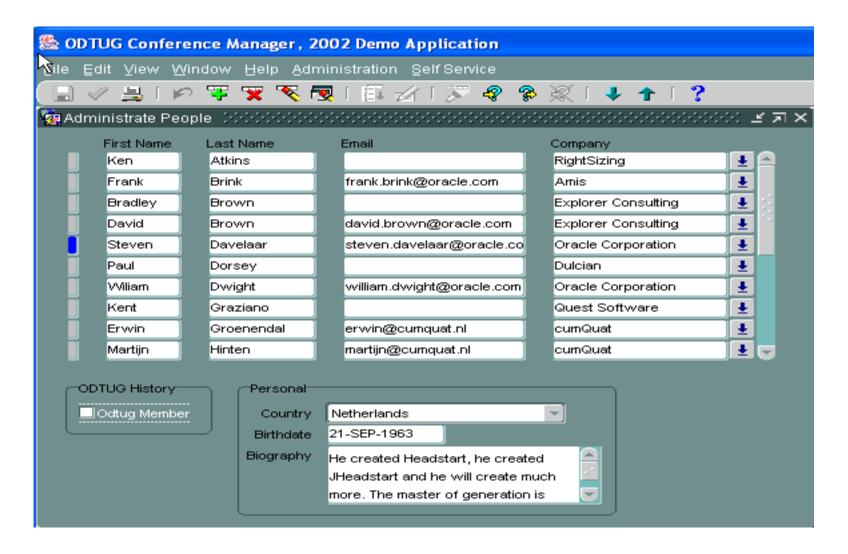


Check the Application Definition Run the JHeadstart Application Generator – READY!



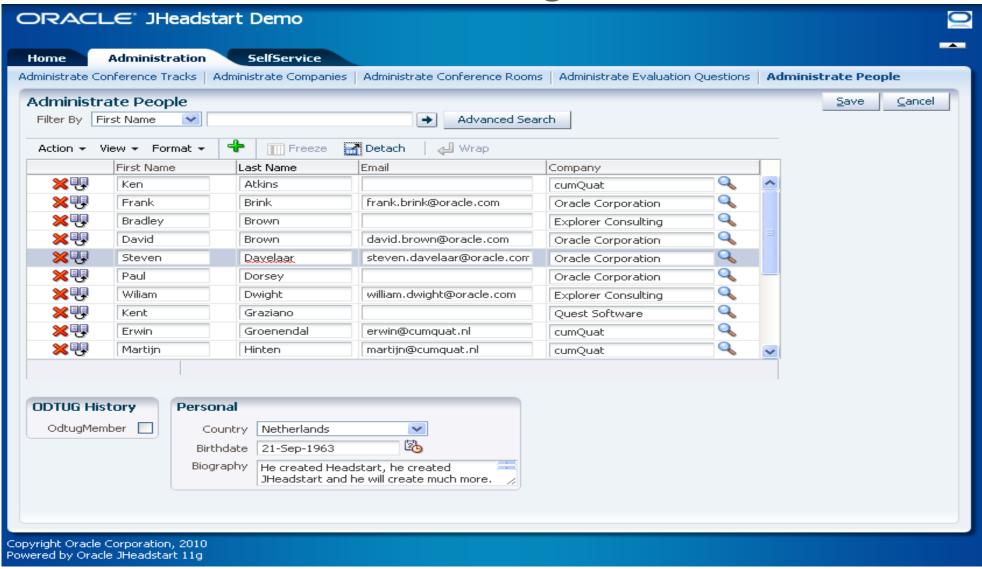


Oracle Forms Screen

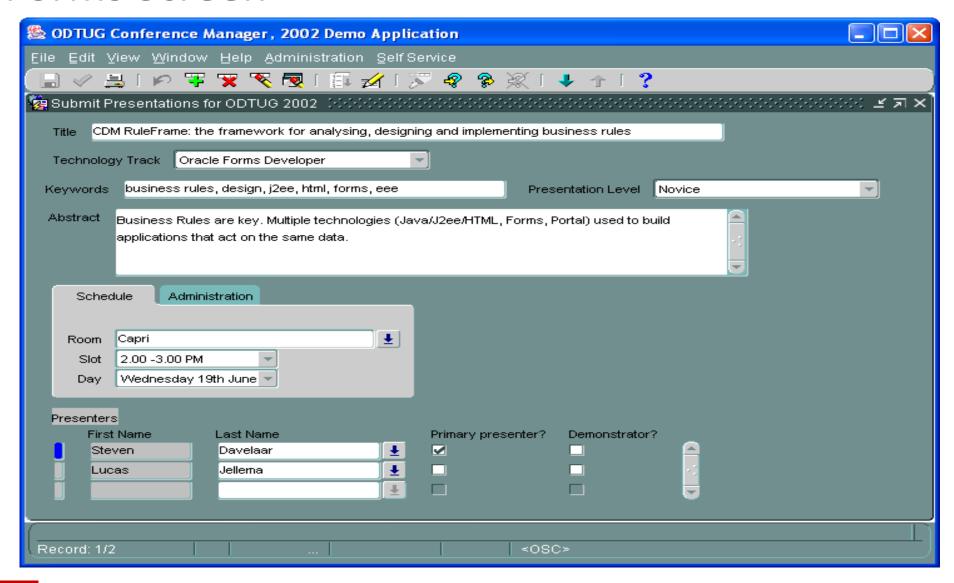




JHeadstart Generated ADF/JSF Page

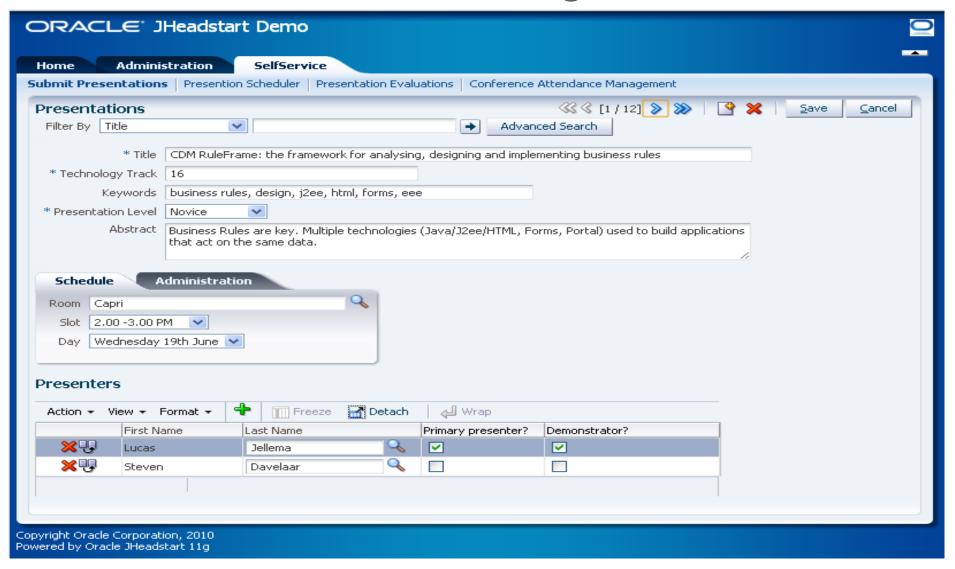


Oracle Forms Screen

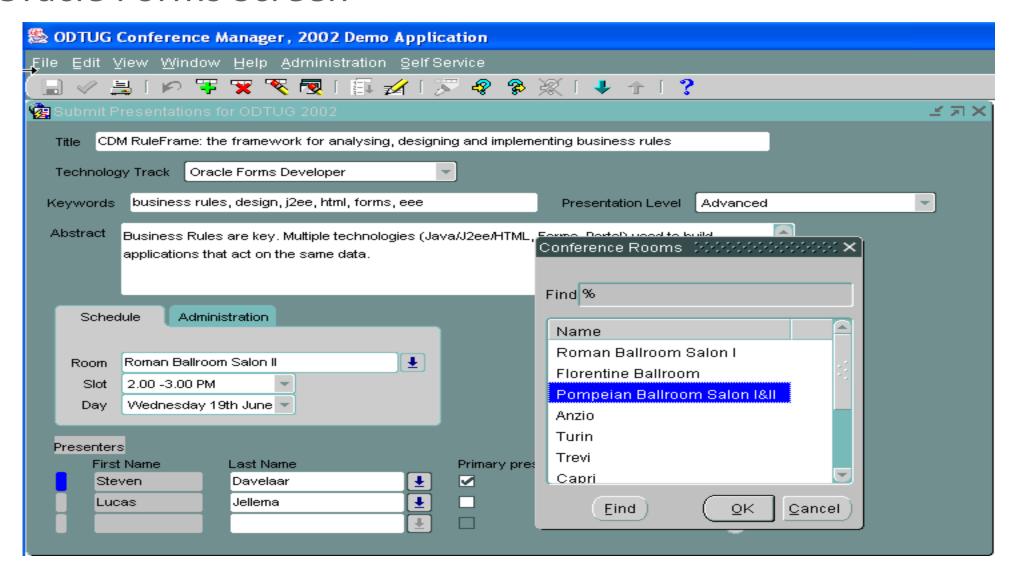




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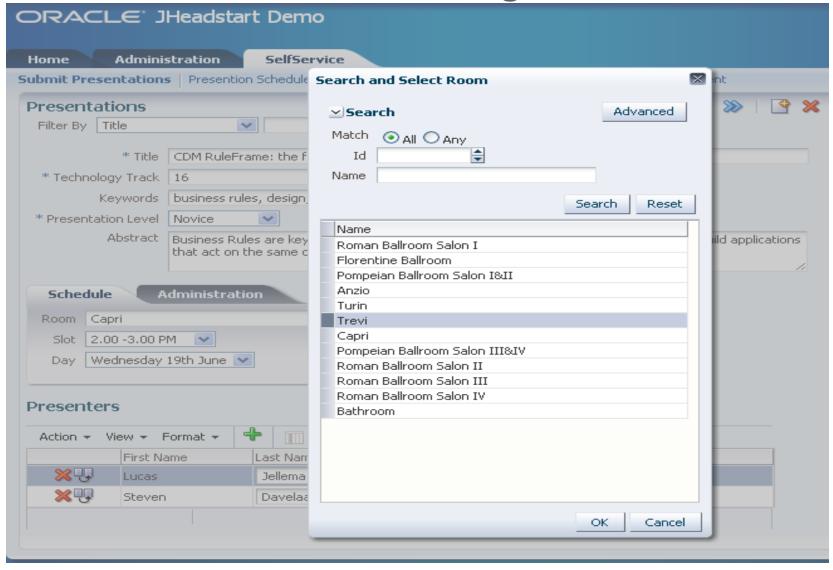


Oracle Forms Screen

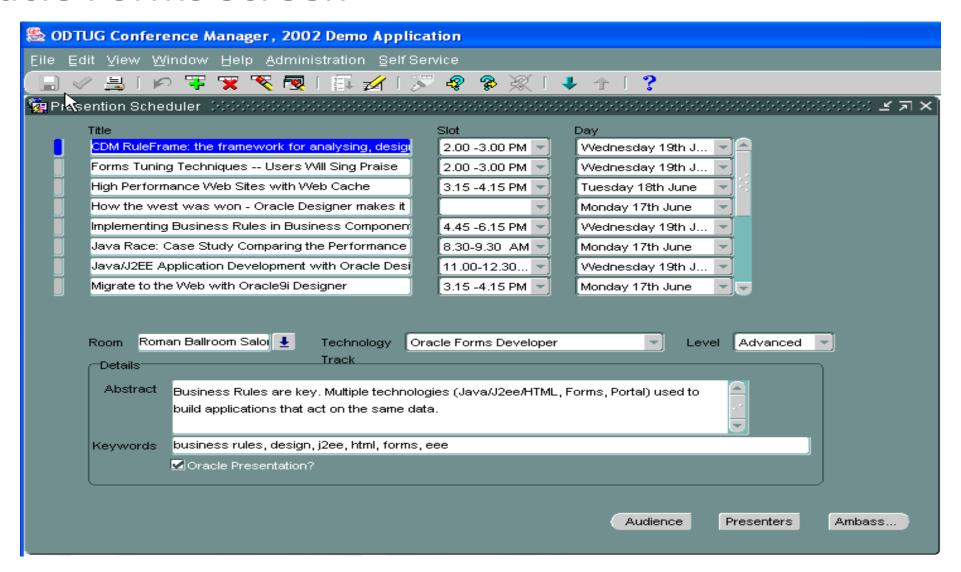




JHeadstart Generated ADF/JSF Page

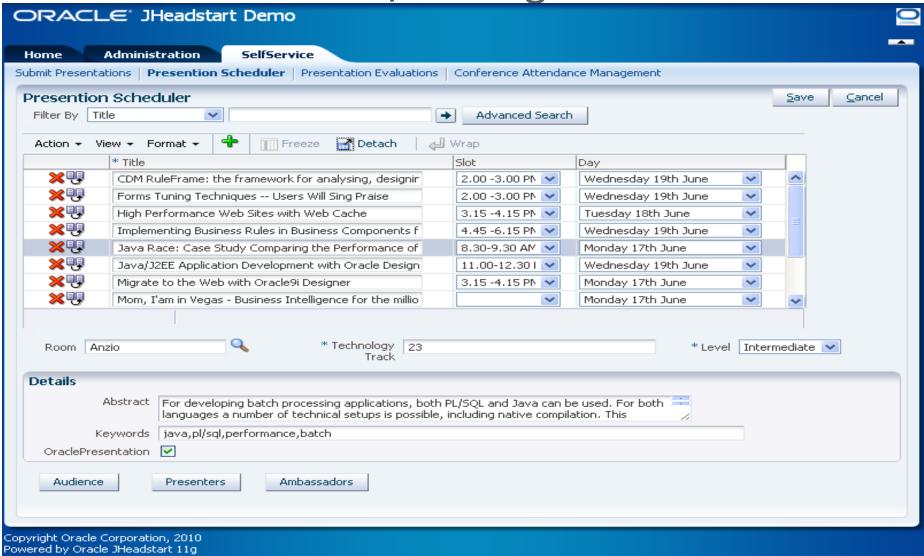


Oracle Forms Screen





JHeadstart Generated ADF/JSF Page

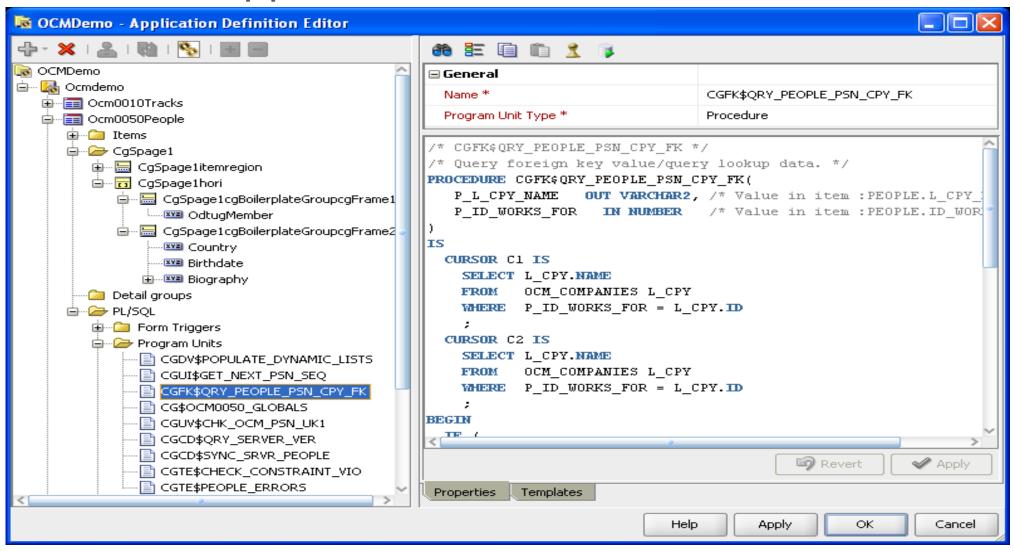


What about PL/SQL Logic?

- Custom PL/SQL Logic not automatically migrated to Java
- JHeadstart prefers sound multi-tier target architecture (ADF MVC) above automated PL/SQL migration
 - Analyze the logic
 - Determine in which tier(s) it should be implemented
 - Determine how to implement it
- Application Definition Editor shows form, block, item triggers program units
 - Good overview of all custom PL/SQL logic
 - Ability to move logic to database, to ADF BC or to JSF managed beans



PL/SQL Code in Appl. Definition Editor as documentation



Forms2ADF Generator - Benefits

- Auto-created ADF Business Components with model-based LOV's, UI Hints
- Migrates Forms user interface to metadata, not application code!
 - Easy to redesign into task-oriented web 2.0 user interface.
- Forms2ADF provides most savings for forms with
 - Standard data blocks based on table or view
 - Complex user interface: many (stacked) canvasses, tabs, LOV's, other display types
 - PL/SQL logic mostly limited to user interface dynamics
- Automatically implements best Practice ADF architecture



JHeadstart Superior Productivity – In Many Ways

- Saves you months to figure out ADF best practices
- Saves you months with ready-to-use reusable components
- Maximizes reuse
- Facilitates agile development
 - Start with generating functional prototypes that evolve into working system
- Eases upgrade to new JDeveloper releases
 - Technology-agnostic metadata layer!





Finland - Financial Institution

- Customer Impressed with Added Value ADF and JHeadstart
 - Dynamic form rebuilt in ADF in three hours with much cleaner architecture
 - Polling requirement: 15 minutes work with standard ADF Faces components
 - ADF Business Components well suited to reuse existing SQL statements
 - Reuse capabilities of ADF task flows
 - Clean MVC architecture
- Customer strongly considers to move to ADF and JHeadstart, has to do strategic thinking first!



Netherlands - ISV

- Why Forms2ADF
 - Wants to add self service capabilities to core app
 - Wants modern user interface
- Architecture Forms App
 - Complex user interface, many tabs, many items on canvas
 - Standard data retrieval and manipulation
 - Most business logic in database
- Added Value JHeadstart Forms2ADF Generator
 - Business Components auto-created based on forms definitions
 - 1 form resulted in 162 business components
 - Migrated metadata strongly modified to generate new user interface



Netherlands – Government IT Department

Why Forms2ADF

- Forms 4.5 and DB 8.1.7 no longer supported
- High maintenance cost, System integration dificult because of old/obsolete technology
- Character-based user interface, end users complain
- Hard to find resources skilled with older Forms versions

Architecture Forms App

- Character-based 24*80 screens
- Standard data retrieval and manipulation
- Most business logic in forms

Added Value JHeadstart Forms2ADF Generator

- Business Components auto-created, including UI labels derived from boilerplate text
- Migrated screens generated with minor changes to metadata



Netherlands – Government IT Department

- Migrated ADF prototype used to create enthousiasm and gain credibility in organisation
- Existing Forms developers keen to learn ADF
- JHeadstart Migration Estimating Utility generates excel sheet with estimates based on forms characteristics
 - Used to provide insight in total migration effort



Forms2ADF - Recommendations

- Think Big Start Small
- Make a roadmap for your Forms app
 - Review Architecture of your Forms app
 - Review Business and Functional requirements
 - How does it fit in your overall IT landscape
- Start Forms to Oracle ADF Assessment / Proof of Concept
- Start SOA Maturity Assessment



JHeadstart – Next Steps

- Get more info at "JHeadstart Product Center" (google):
 - Developer's guide, Tutorial
 - Online Forms2ADF demonstrations
 - Frequently asked questions
- Evaluate JHeadstart
 - JDeveloper Help -> Check for Updates -> Open Source and Partner Extensions
 - Do the tutorial
 - Start Forms2ADF Assessment
- Buy JHeadstart
- Ask additional questions at OTN JHeadstart Discussion Forum or email idevcoe nl@oracle.com



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