



The Challenges Oracle forms Migration to ADF

Session 2

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Agenda

- Why Migrate?
- Forms Modernization
- Roadmap to ADF migration
- Migration tools
- Reporting Tools
- Recommendation
- Demo
 - JHeadstart OTN Demo
 - Performing Common Forms tasks in ADF
 - Integrating Forms with Java using Webservices & PJC's



Why Migrate?

- Meeting new business challenges
- Meeting User expectations and demands
- Modern technology Better performance
- To achieve active sustainment before system becomes legacy
- To avoid obsolescence



Forms Modernization - I

- Migrate and integrate
- Use SOA to extend current applications and to align their business and IT needs
- Allows retain investment in Oracle Forms while leveraging the opportunities offered by complementing technologies
- Transition should be a journey not single transformation



Forms Modernization - II

- How to achieve Modernization?
 - Move to Web
 - Integrate with SOA
 - Use Webservices
 - Use PJC's (Pluggable Java Components)



Roadmap to ADF Migration

- Define target & starting point
- Define Phases
 - Feasibility
 - Application analysis
 - Identify obsolete features
 - Remove unused code
 - Re-locate business logic
 - Redesign application issues
 - Fine tune



Define Feasibility

- R&D is time consuming and difficult to estimate
- Define Starting and Ending Points
- Answer the following questions
 - Where we want to go?
 - Where we are now?
 - What are our objectives?
- Future Surprises



Application Analysis

- Application grown over the years
- Initial developers are not with the company
- Is every thing is Documented ?
- Do we have Test cases or Version control system?
- Do we have Complete Source code ?



Obsolete objects

- Few components are Obsolete
 - Calendar library
 - Alerts
 - Graphics rectangles
 - Visual attributes
 - Program units, LOVs
- Deletion of obsolete components from Forms means less hassle in migration



Business logic - I

- In Forms business logic is tightly coupled with the UI
- ADF is MVC architecture
- So Where to store Business logic?
- What skills we have ?
 - Do we have more PL/SQL Developers?
 - Do we have more Java Developers?



Business logic - II

- Forms code is PL/SQL
- Logic in Database
 - PL/SQL code faster execution better performance
 - Callable from Webservices
 - JDBC
- Middle tier
 - Java coding
- Recommendation
 - Move to database if more PL/SQL
 - Move to middle tier if Logic is More UI Interactive



Redesign Application Issues - I

- Tool supported Redesign
 - Pros
 - Part of application migrated
 - Investment protection
 - Cons
 - Not 100% migrated
 - PL/SQL logic required to re-locate
 - Some features would required redesigning
 - Hard to estimate the migration



Redesign Application Issues - II

- Re-design manually from scratch
 - Pros
 - Ownership
 - Control on application
 - Process improvement
 - Cons
 - Costly / Investment lost
 - Time consuming
 - Risk for Project success or failure
 - Future creep



Fine tune

- Web based UI standards
- A form has 100 fields not suitable for web based style pages.



Migration tools

- JHeadstart
 - Extension to Jdeveloper and ADF
 - Same as designer does for Forms
- OraFormsFaces
 - Third party tool
- PITS.CONN
 - Third party Tool similar to JHeadstart

Reporting Tools

* No direct APIs for Oracle ADF

From Oracle	Open Source
BI Publisher <ul style="list-style-type: none">▪ Popular modern choice▪ Integration with Oracle Apps▪ Integration with MS Office suite▪ Expensive▪ Not as sophisticated as others	Jasper Reports <ul style="list-style-type: none">▪ Open source tool for report design▪ Java implementation and integration▪ Fairly popular "free solution"▪ No dedicated ADF-API
XSQL Pages <ul style="list-style-type: none">▪ Examples in the ADF Toy Store demo▪ Use the Apache FOP serializer for PDF▪ tbc: Pricing?	BIRT <ul style="list-style-type: none">▪ Open source Eclipse based reporting tool▪ No dedicated ADF-API
Oracle Reports <ul style="list-style-type: none">▪ Sophisticated paper based reporting solution▪ Antiquated user interface with difficult frame based solution; steep beginner learning curve▪ Oracle Application Server 10.1.2 only, not supported by WLS 10.3, will be in Fusion Middleware (FMW) Server 11g	

*Courtesy: adf_emg Methodology group



Recommendation

- Migrate to latest Forms i.e. 11g
- Integrate Forms with SOA and Java
- New development to ADF
- Start pilot projects to migration to APEX and ADF



Demo

- JHeadstart OTN Demo
- Performing Common Forms Tasks in ADF
- Using PJC's in Forms
- Using Webservices in Forms