

Rich Enterprise Applications

Powered by Oracle Application
Development Framework
(Oracle ADF)



ORACLE®

From Forms to ADF – When, Why and How?

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Senior Group Product Manager - Application Development Tools

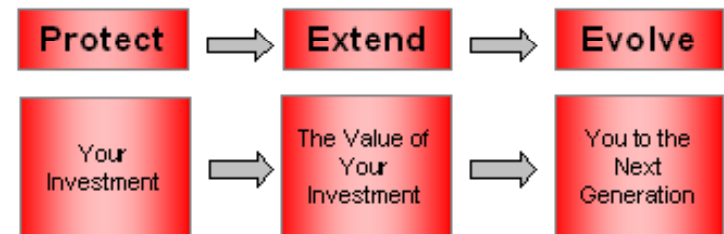


Agenda

- • Strategy
 - Motivation for migration
 - The challenge of migration
 - Migration strategies
 - Using Oracle ADF
 - Migrating skills
 - Migrating applications

Strategy

- “...*There are no plans to desupport Oracle Forms and Reports...*” – Oracle Tools Statement of Direction
 - <http://www.oracle.com/technetwork/issue-archive/2010/toolssod-3-129969.pdf>
- Clear statement of direction
 - Upgrade
 - Integrate
- Oracle Forms 11g in Oracle FMW 11g
 - Many new features





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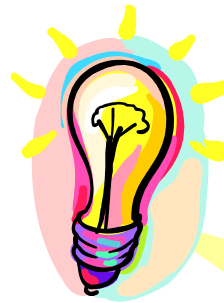
Possible Reasons for Migrating

Our business has changed considerably and Forms no longer meets our requirements

Our Forms application is reaching its natural end-of-life

I LOVE what Fusion could do for our business!

Our business requires us to be adopting leading edge, modern technologies



Possible Reasons for NOT Migrating

We are heavily invested in Forms and it is still meeting the requirements of our business

If it ain't broke don't fix it!



We are taking a much more measured approach to embracing new development and technologies

Our end users are completely happy with the "heads down" data entry approach of Forms

Possible Wrong Reasons for Considering Migration

We upgraded from Forms 6i to 10g and we noticed performance issues. We'll rewrite in Java because that will be faster

Oracle are telling us we need to get off of Forms and write everything in Java/ADF/Apex

If we rewrite our Forms in Java we'll end up saving \$\$\$\$ in development costs!

Forms has been desupported, right?





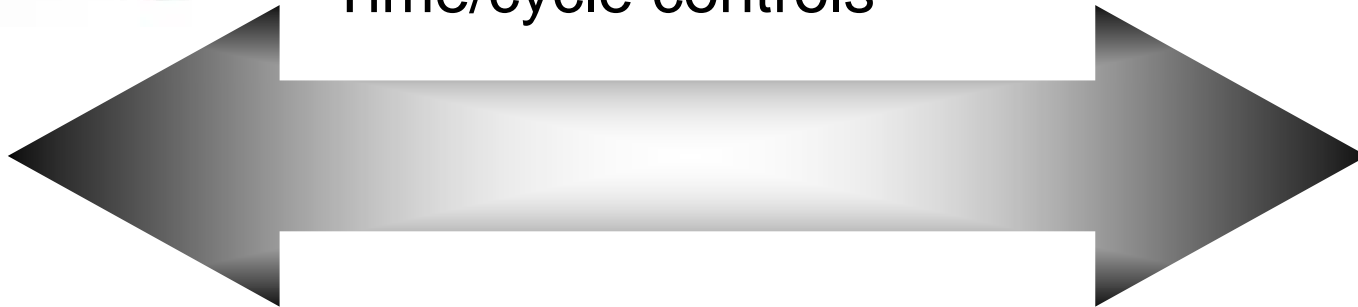
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Sometimes Technologies Can Look Similar....

So, you want to migrate?

- Standard dimensions
- Dirty things go in, clean things come out
- Clean water goes in
- Dirty water goes out
- Temperature controls
- Time/cycle controls



But are often different...

So, you want to migrate?

- Spins clothes
- Dries by spinning
- Needs to spin at 1600 rpm
- Opening can be smaller
- Objects load in drum
- Spins water, not dishes
- Dries using heat
- Spin approx 40 rpm
- Requires wider loading
- Objects load in basket

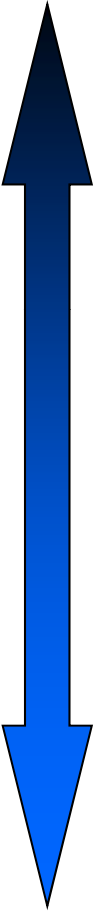


Some of the differences you have to overcome...

Oracle Forms	Fusion/Web Applications	Impact?
<ul style="list-style-type: none"> • Java applet UI 	<ul style="list-style-type: none"> • HTML/JavaScript 	<ul style="list-style-type: none"> • Different style of UI but you are still working with “widgets” • HTML works on page POST • X,Y layout versus layout containers
<ul style="list-style-type: none"> • PL/SQL scripting language 	<ul style="list-style-type: none"> • Java (but still PL/SQL in the database) 	<ul style="list-style-type: none"> • Objects v. Procedural is different but basic statements are similar (if, then else)
<ul style="list-style-type: none"> • Stateful dedicated connections 	<ul style="list-style-type: none"> • Stateless pooled connections 	<ul style="list-style-type: none"> • Generally you don’t want dedicated processes per user • ADF BC gives you simplicity of stateful but performance of stateless
<ul style="list-style-type: none"> • No separation of UI and data elements 	<ul style="list-style-type: none"> • Separate UI and data elements 	<ul style="list-style-type: none"> • Big advantage on reuse when separate • Can’t/shouldn’t be writing business logic internals from UI code (and visa versa)
<ul style="list-style-type: none"> • Proprietary and fixed framework 	<ul style="list-style-type: none"> • Standard and open (override and augment) 	<ul style="list-style-type: none"> • Fixed means you don’t have to understand the internals • Open means you are not limited by the vendor’s implementation



Reuse and the Challenges

- 
- Database tables/views
 - It's your data, you certainly don't want to throw it away
 - Stored procedures and functions
 - Will it work when using shared connections?
 - Would you take the chance to do things differently?
 - Forms PLLs
 - Does it make sense to move into the database
 - Forms built ins
 - A chance to SOA enable??
 - Forms trigger code
 - Is some of the code redundant?
 - Are the trigger/event points the same?

Things Even Look Different! From This...

The screenshot shows the Oracle Expense Reports web application. At the top, there's a navigation bar with "ORACLE Expense Reports" and various links like "Report Issue", "Global Policy", "Home", "Logout", "Preferences", "Personalize Page", and "Diagnostics". Below this is a breadcrumb trail: "Expenses Home > Expense Reports > Credit Card Transactions > Access Authorizations > Projects and Tasks". The main content area is titled "Track Submitted Expense Reports" and contains a table of reports. The table has columns for Report Number, Report Submit Date, Report Status, Last Report Status, Client Approver Status, Receipts, Report Total (USD), Purpose, Duplicate, and Withdraw. Three reports are listed, all with a status of "Pending Manager Approval". Below the table, there are sections for "Update Expense Reports" and "Notifications".

Report Number	Report Submit Date	Report Status	Last Report Status	Client Approver Status	Receipts	Report Total (USD)	Purpose	Duplicate	Withdraw
1018822	30-Sep-2005	Pending System Administrator Action		8 Expenses Administrator		0.00	Client visit - Seatt...		
1018852	27-Sep-2005	Pending System Administrator Action		8 Expenses Administrator		0.00	Client visit - Seatt...		
1018863	27-Sep-2005	Pending Manager Approval		1 Andretti, Mr. Evan Not Required		287.87			

The screenshot shows the "OracleApps Job Definition" dialog box. It has a title bar with "OracleApps Job Definition" and standard window controls. The main area contains several fields and options: "OracleApps Job Name" (Oracle Job), "Job Class" (dropdown), "Owner" (Schedulers), "Parent Group" (dropdown), and a "Parameters" button. Below these is a section for "Concurrent Request Data" with radio buttons for "Concurrent Program" (selected) and "Request Set". There are also "Application" and "Name" dropdowns. On the right side, there are "OK", "Cancel", and "Help" buttons. At the bottom left, there is a checkbox labeled "Enabled" which is checked.

...To These

ORACLE Personalization Administration Help

Home Navigator Recent Items Favorites Tags Watchlist

Region	Employee	250,000	195,000	214,512	211,603	187,900
Commercial Apps	Terry Smythe	119,000	99,000	106,512	108,052	91,900
Prime Repts	Nicole McGee	90,000	65,000	73,656	75,012	63,180
Specialists/Overlay	Kelly Jones	90,000	65,000	73,656	75,012	63,180
APAC	Chris Thompson	12,536	10,500	11,396	10,565	7,600
EHEA	John Stanley	10,969	9,000	9,972	9,814	6,652

AMERICA: Territory Details

Analytics Territory Analysis Territory Profile

Analyze Territory

Filter Criteria: Sales Prospector Criteria, Potential Revenue, Purchase Confidence, Booked Revenue, Company Size, Days To Close

Install Base: WhiteSpace, Competitor

Competitor: Vision Technology Inc Vercom Software Content Designs Other Unknown

Advanced Marketing Online, Vision Sales, Vision Marketing for Communication, Vision Marketing Encyclopedia, Vision Brokerage, Vision Payment Manager, Vision Shopping Basket, Vision Workflow, Vision Communications Billing Au, Vision Communications Marketing, Vision Communications Service, Vision Marketing Automation, Vision Partner Advanced Marketing, Vision Partner Advanced Marketing, Vision Segment Manager

Department of Conservation, Confidential End Users, North and South Dakota Health Care Systems, Banc de Sa, Cabinet Office, US Healthcare System, National Bank of Ukraine, Cadledge, Canal + Caledonia, As Corp, Department of Heavy Metal and Usage, Alabama Communication, Bank of Greece, Comune Di Baronesi, Fidelity Insurance, Hospitales De Sa, Banque de Suisse, Water and Electricity Board of Texas, Royal Bank of Netherlands, Energy Conservation Department

Transaction Timeframe, Account Profile, Account Install Base, Partner Relationships, My Relation to Account

Change Date: 3/15/00, 8/1/01, 3/15/02, 2/16/03, 3/15/04, 3/1/05

Performance v. Potential: High, Medium, Low; Meets, Exceeds, Outstanding

Suitability: Leadership, Teamwork, Creativity, Customer Service, Communication, Measurement, Motivation, Peer Support

AVITEK Browse for P&L Coding Search Choose an old profile Actions Apply

To complete your purchase, put the boxes in the bin, choose quantity and press the check-out button.

Popular Items: Inkjet, Laser, Inkjet, Laser

Active Items: Top Discounts

Overview	Reviews	Price	Location
M300	1/3/2008	★★★★	Bohler, Dallas, TX
DuoZurio	1/16/2008	★★★★	NY, NY
DuoM	1/7/2008	★★★★	Las Vegas, NV
DuoC	1/4/2008	★★★★	Miami, FL
Magic	1/3/2008	★★★★	San Jose, CA
Yanf	7/3/2008	★★★★	Oakland, CA

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Home Favorites Tags Watchlist

Person Gallery

Tom Kimb

Pat Miller

Pat is Writing a Document Add to my sky

Employment

Salary Hist

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Details: Person, Employment, Performance, Talent Profile, Compensation, Benefits, Calendar, Blog, Payroll, Learning, Time Card, Expenses, Projects, Recruiting

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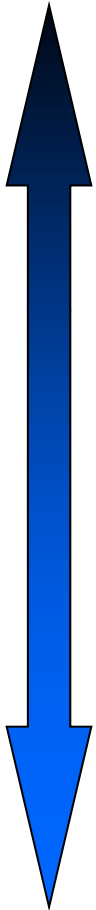


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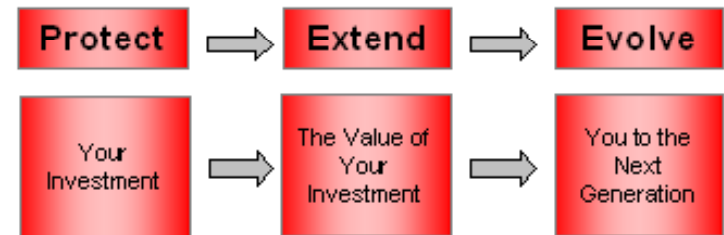
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Migration Strategies



- **Protect investment**
 - Upgrade Forms
 - Use the code and skills you have
 - Share services/code
- **Extend your investment**
 - New business functions
 - Exploit the platform/technology
 - Extend skills
- **Evolve applications**
 - Natural “end-of-life”
 - Green field development
 - Evolve team skills/best practices





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Reasons to choose Oracle ADF



- Abstracts the complexity the technologies
 - Visual and declarative development
 - Take care of the “plumbing”
 - Metadata driven – not code
- Technology chosen for Oracle’s future business applications
 - Proven in deployment and performance
 - Proved in developer productivity
- Implements JEE design patterns and best practices
- Promotes service oriented development
 - Reusable business services
 - Composite application development

What the Forms framework gives you “out of the box”

- Provides connection to the database
- Maps application blocks to data sources
- Caches records inside Forms record manager
- Handles transaction management
- Implements database constraints
- Allows definition of declarative validation
- Exposes trigger points to add custom business logic
- Provides application utilities and built-ins
 - LOVs, record groups, calculated fields, Set_Item_Property etc..
- Defines properties for application items
 - Format mask, background color, initial value, update allowed
- Library of visual components



What does Oracle ADF give you “out of the box”

- Provides connection to the database
- Maps application views to data sources
- Caches records inside entity objects
- Handles transaction management
- Implements database constraints
- Allows definition of declarative validation
- Exposes event points to add custom business logic
- Provides application utilities and built-ins
 - LOVs, view objects, calculated fields, Set properties etc..
- Defines properties for application elements
 - Format mask, background color, default value, updatable always
- Library of visual components





Common Forms Features Found in Oracle ADF

- Creating application building blocks based on tables
- Non base table (Post-Query) lookups
- UI labels, tooltips and format masks
- Validation
- List of values
- Calculated fields
- Common Forms triggers
- Form/Page navigation
- UI controls

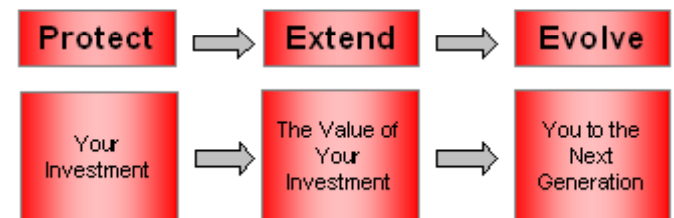
Critical Questions to Ask

- Why do I want to migrate?
- Do I build to the strengths of my target or my legacy platform?
- Am I planning to rearchitect?
- Who are my developers?
- What do my end users expect?
- What does the business expect?
- What do Oracle recommend?



Questions Which May Influence Strategy

- Do you want to protect your existing investment in any way?
 - Can I “afford” a big bang approach?
 - Do I need to skill up?
- Is modernization an influencing factor?
 - Could I modernize Forms?
 - What is “modernization”?
- Are my motivations for change really Forms and ADF?
 - Is SOA driving the change?
 - Something else?



Some Answers???

- Oracle has been through this with their E-Business Suite
- ADF aids rearchitecture
 - Standard framework that implements JEE design patterns
 - You get so much more!
- ADF provides many of the features found in Forms
 - In concepts understood by Java and Forms developers
- Proven
 - For deployment and developers
- There is no magic bullet





Summary

- Continuing with Forms development is an option
 - Evolution not revolution?
- Ask the questions
- Migration is not trivial
- Oracle ADF gives you many of the application building blocks you will need
 - Proven productivity
 - At the heart of Oracle's development strategy



For more information

- <http://www.oracle.com/technetwork/jdev>
- Downloads on Oracle Technology Network (OTN)
- Product Documentation
- Data Sheets and Whitepapers
- Blogs
- OTN Discussion Forums
- Books

Conference Tracks

Time	Basics	Advanced	Hands on Lab	Best Practices	Enterprise
8:00 – 8:15	Conference orientation				
8:15 – 9:00	Keynote: Rich Enterprise Applications				
9:00 – 10:00	Rich Web UI made simple - an ADF Faces Overview	Developing for Mobile Devices with Oracle ADF	LAB – Web Applications with ADF Part 1	Starting an Enterprise ADF project	Developing with Oracle WebCenter
10:00 – 11:00	Next Generation Controller for JSF	ADF Binding Internals	LAB – Web Applications with ADF Part 2	The bit every one forgets: Unit testing your ADF applications with JUnit	Build Killer Sites with Oracle WebCenter
11:00 – 12:00	From Forms to ADF - When, Why, How?	Advanced ADF Faces - Skinning & Javascript	LAB - Web Applications with Oracle WebCenter	ADF Security in a Project-Centric Environment - An ADF Case Study	Building Process Centric Applications with ADF and BPM
12:00 – 12:30	Survey & Event checkout				

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- <http://kscope11.com/>
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- Presented by Oracle ACEs, developers and product managers
- ADF, WebCenter, SOA Suite and more



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