

Oracle Forms to Oracle Application Express

A Migration Roadmap

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Today's Agenda

- Oracle Forms
 - Status Today
 - Why Migrate?
- Other Options
 - .NET, PHP, and Java
 - Apex
- Apex Migration
 - Generate XML Files
 - Create Conversion Project
 - Review/Edit Forms Metadata
 - Generate Apex Application
 - Manually Update Application



Oracle Forms Today

- Mature and Robust
 - Introduced mid 80's
 - Many major releases
 - A lot of “Out of the box” functionality
 - Extendable with Java (PJC's)
- Easy to use
 - Declarative
 - Leverages full Oracle database capabilities and existing SQL & PL/SQL skills
- Supported
- Development Continues



So Why Migrate?

- Modern “look and feel”
- HTML based solution
- Support (Both Development and Client)

Orders and Items

Immediate Auto Query

Order Id: 100

Order Information

Date Ordered: 31-AUG-1992 Customer Id: 204 Customer Name: Womansport
 Sales Rep Id: 11 Sales Rep Name: Magee
 Date Shipped: 10-SEP-1992 Cash Credit Order Filled

Item Id	Product Id	Description	Price	Qty	Shipped	Item Total
1	10011	Bunny Boot	135	500	500	67,500.00
2	10013	Pro Ski Boot	380	400	400	152,000.00
3	10021	Bunny Ski Pole	14	500	500	7,000.00
4	10023	Pro Ski Pole	36	400	400	14,400.00
Order Total						601,100.00



Worksheet

ORACLE Application Express

Worksheet Projects > Project: Marc's Projects > employees

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID
100	Steven	King	SKING	515.122.4567	17-Jun-07	AD_PRES	24000		
101	Neena	Kochhar	NKOCHHAR	515.122.4566	21-Sep-09	AD_VP	17000		100
102	Lex	De Haan	LDEHAAN	515.122.4569	13-Jan-03	AD_VP	17000		100
103	Alexander	Hunold	AHUNOLD	590.423.4567	3-Jan-00	IT_PROG	9000		102
104	Bruce	Ernst	BERNST	590.423.4568	21-May-01	IT_PROG	8000		103
105	David	Austin	DAUSTIN	590.423.4569	25-Jun-07	IT_PROG	4800		103
106	Yali	Pataballa	YPATABAL	590.423.4560	5-Feb-06	IT_PROG	4500		103
107	Diana	Lorentz	DLORENTZ	590.423.4567	7-Feb-09	IT_PROG	4200		103
108	Nancy	Greenberg	NGREENBE	515.124.4569	17-Aug-04	FLOR	12000		101
109	Daniel	Faviet	DFAVIET	515.124.4169	16-Aug-04	FL_ACCOUNT	9000		100
110	John	Chen	JCHEN	515.124.4209	28-Sep-07	FL_ACCOUNT	8200		100
111	Jmuel	Scarra	JSCARRA	515.124.4209	30-Sep-07	FL_ACCOUNT	7700		100
112	José Manuel	Urman	JURMAN	515.124.4489	7-Mar-08	FL_ACCOUNT	7900		100
113	Luis	Popp	LPOPP	515.124.4567	7-Dec-09	FL_ACCOUNT	6900		100
114	Den	Raphaely	DRAPHEAL	515.127.4561	7-Dec-04	PU_MGR	11000		100

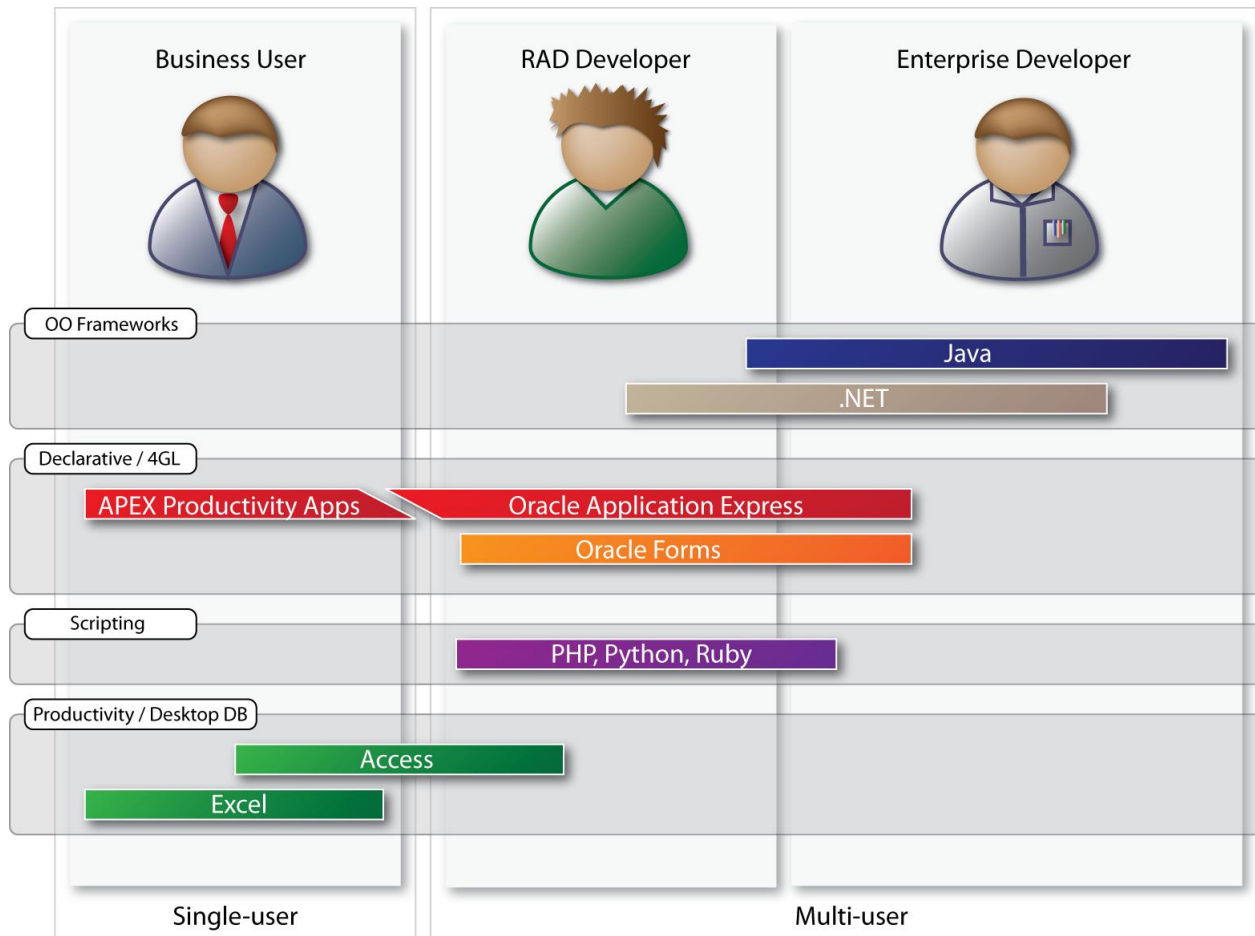


.NET, PHP, and Java

- Object Oriented Languages
 - Could require retraining
 - Not as declarative (productivity)
- Different data types
- Database features
- No built in Forms conversion utility



Targets the Rapid Application Development Community

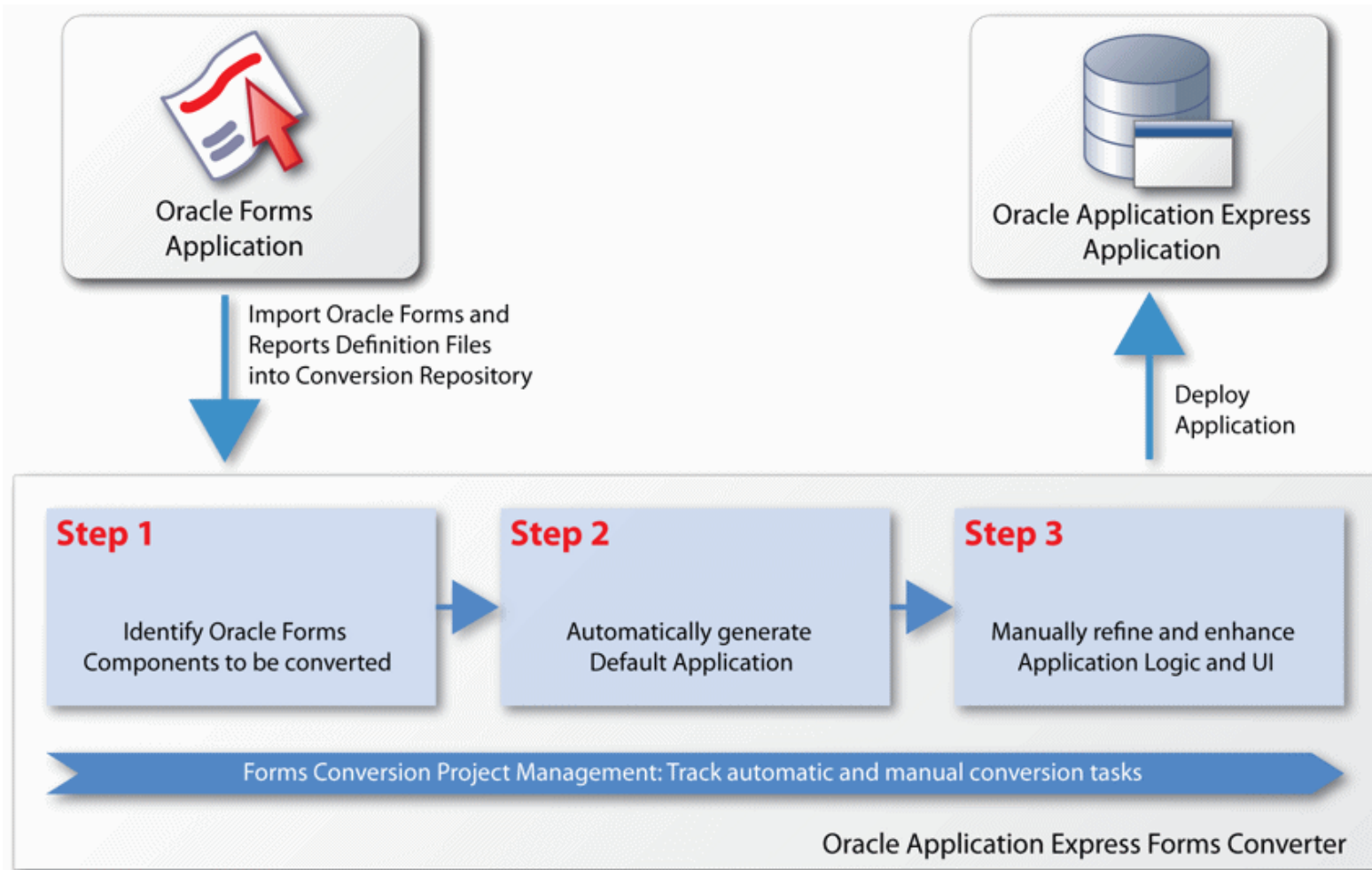


Side by Side

Feature	Forms	Apex
4GL Declarative	Yes	Yes
4GL Languages	SQL and PL/SQL	SQL and PL/SQL
User Interface	Java	HTML
Page Layout	Windows and Canvases	Pages and Regions
Client-side Field Control	Form triggers	JavaScript and Ajax
Web Service Support	Yes	Yes
Charting	BI Beans	Flash Charts
Locking	Pessimistic, Optimistic, Custom	Optimistic, Custom
Database Connections	Synchronous	Asynchronous
Concurrent User Support	Database connectivity maintains by user session	Database connectivity only maintained for the processing of requests
Architecture	3 Tier	2 Tier

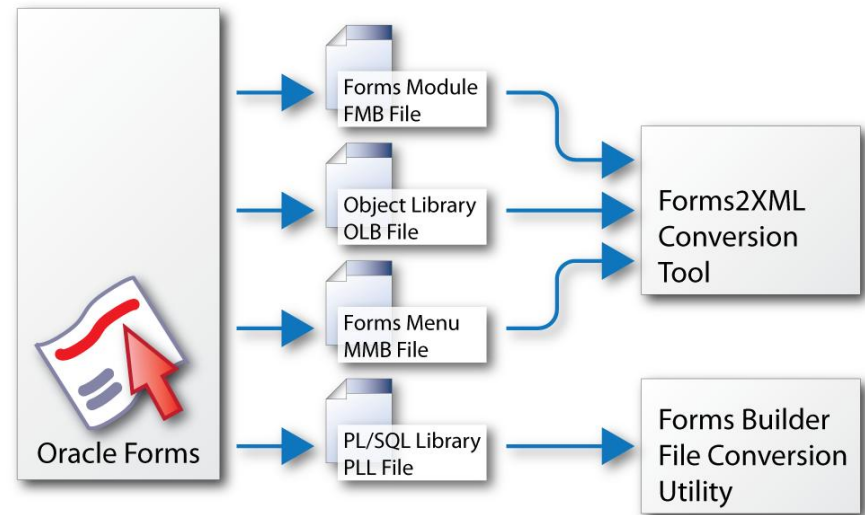


Apex Migration Overview



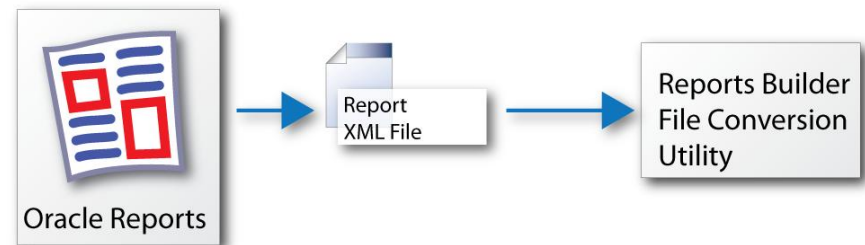
Load Oracle Forms Source

- **Run Forms2XML Utility**
- **Create APEX Project**
- **Upload Source Files**



Forms2XML Utility:

- Available with Forms 9i & 10g
- May convert Forms 4.x & 6i
 - If conversion fails will need to manually upgrade first



Step 1: Identify Components to be Generated

➤ Browse Components

➤ Blocks

- Select / Deselect
- Enhance SQL Query

➤ Items

- Select / Deselect
- Review Prompts

➤ Annotate

– Triggers, Program Units, Alerts, etc.

- Is it Applicable?
- Document post-generation requirements

Home > Application Migrations > Project: Summit > Forms Objects > **Blocks**

Search: Rows: 15

File Name = 'orders_fmb.xml'

Include	Name	Title	Triggers	Data Source Name	Item Count	Databas Block
<input checked="" type="checkbox"/>	S_ORD	S_ORD	22	S_ORD	9	Yes
<input checked="" type="checkbox"/>	S_ITEM	S_ITEM	8	S_ITEM	11	Yes
<input checked="" type="checkbox"/>	S_INVENTORY	S_INVENTORY	0	S_INVENTORY	6	Yes
<input type="checkbox"/>	Controls	Controls	8		8	No

Annotations

Applicable: Yes
 Priority: 3
 Complete: No
 Assignee: Dpeake

Notes: Need to implement as a validation

Tags: VALIDATION



Step 2: Automatically Generate Components

➤ Blocks

- Form Interactive Report & Form
- Master / Detail
- Tabular Form

➤ Items

- Date Pickers
- HTML Editors
- Checkboxes
- Radio Groups
- Select Lists
- Pop-up List of Values


➤ List of Values
















➤ Reports Interactive Reports

Summit

Home > Customers

Rows



	<u>Id</u>	<u>Name</u>	<u>Phone</u>	<u>Sales Rep Name</u>
	201	Unisport	55-2066101	Giljum
	202	Simms Athletics	81-20101	Dumas
	203	Delhi Sports	91-10351	Nguyen
	204	Womansport	1-206-104-0103	Magee
	205	Kam's Sporting Goods	852-3692888	Dumas
	206	Sportique	33-2257201	Dumas
	207	Sweet Rock Sports	234-6036201	-
	208	Muench Sports	49-527454	Dumas
	209	Beisbol Sil	809-352689	Magee
	210	Futbol Sonora	52-404562	Giljum
	211	Kuhn's Sports	42-111292	Dumas
	212	Hamada Sport	20-1209211	Sedeghi
	213	Big John's Sports Emporium	1-415-555-6281	Magee
	214	Ojibway Retail	1-716-555-7171	Magee
	215	Sporta Russia	7-3892456	Dumas



Step 3: Manual Post-Generation Tasks

➤ Application Logic

Triggers
Program Units
PL/SQL Libraries



Validations
Processes
Computations

➤ User Interface

Windows
Canvasses
Object Libraries



Corporate Theme
Add Pages / Regions / Items
JavaScript / AJAX

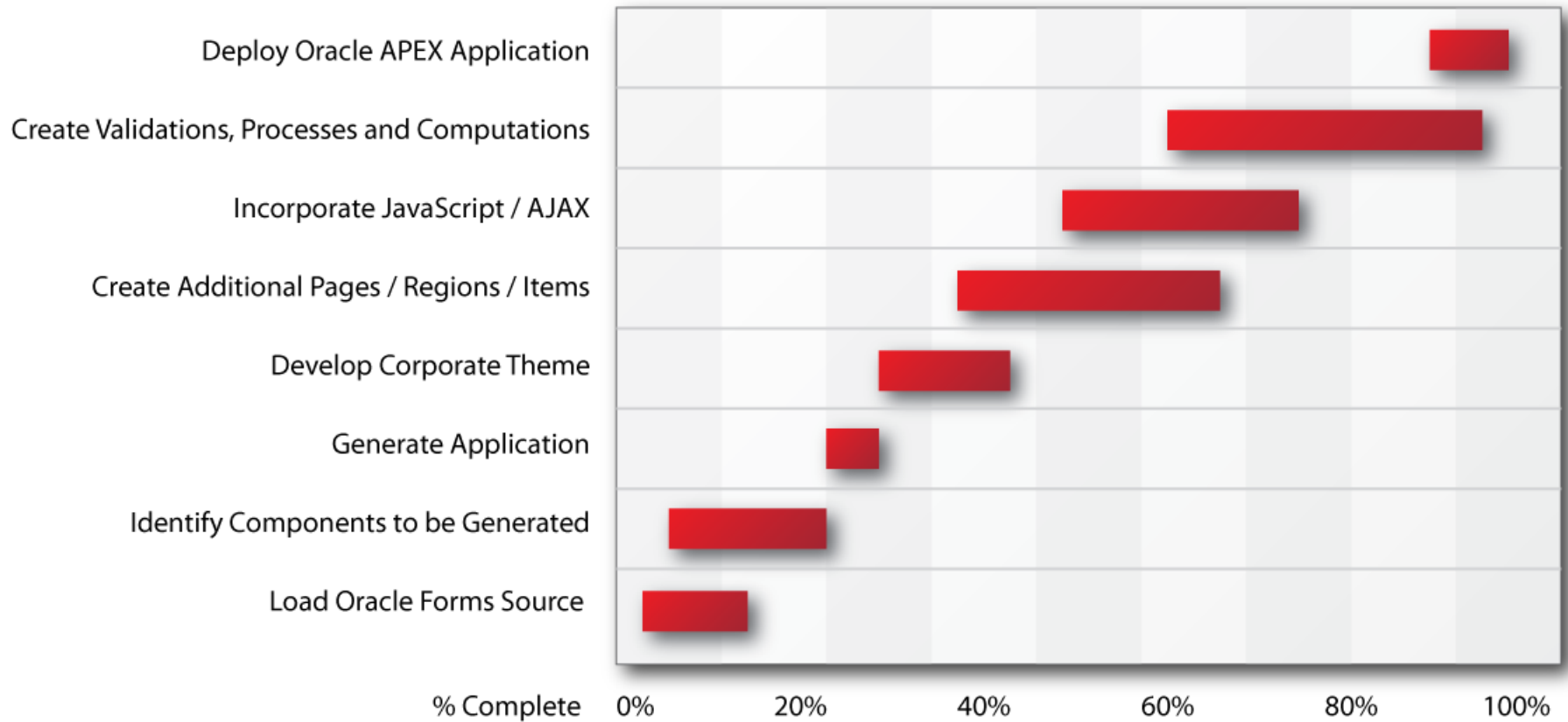
➤ Annotate

- Update Completion
- Increases % complete

Completion Status	
Components:	194
Completed:	155
Percent Complete:	81.58



Track Conversion Progress



Thank You

➤ Questions?

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