



R 12 Upgrade Project: An Overview of the Joys and the Pains

Marcella Sackett, Traust Consulting









Abstract

Explore the lessons learned from an upgrade project to Release 12. This presentation will provide an overview of the accomplishments and issues that arose while upgrading to R12. All aspects of the project including project management, technical aspects, and functional perspective will be presented. Recommendations will also be presented for how to prepare your corporation for an upgrade to R12.







Goals/Objective

- To provide an overview of the features and benefits in R12 Oracle Applications
- To provide an overview of an existing Oracle Applications Upgrade Project to Release 12 with focus on the knowledge we have gained and the lessons learned.





Agenda

- Release 12: Benefits and Changes
- Overview of Current R12 Upgrade
- Thoughts on R12 Upgrades
 - -Project Timeframe
 - -Preparatory Steps
 - What We Have Learned
- Q & A





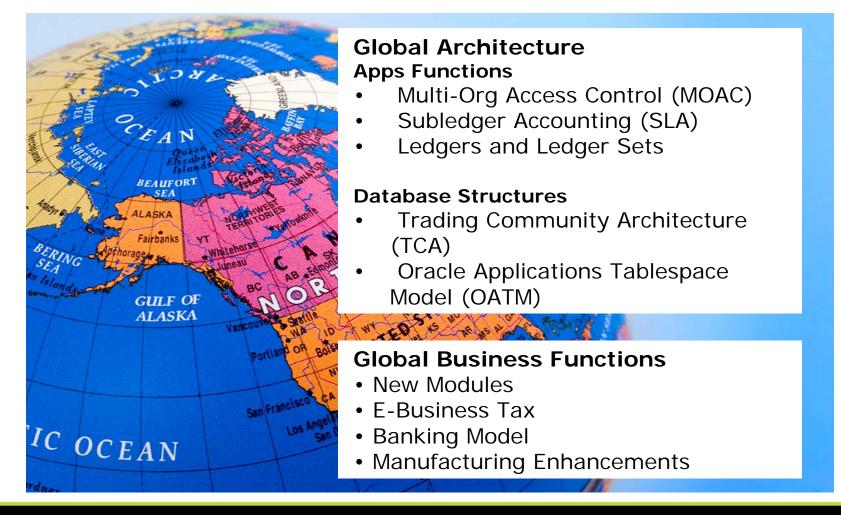
Release 12: "The Global Release"







Release 12: "The Global Release"



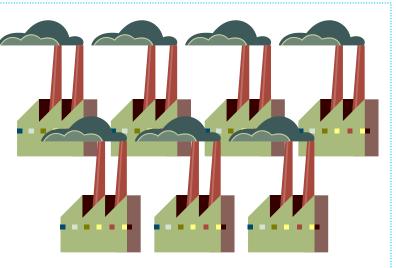






Release 12: Multi-Organization Access Control

- What is it?
 - Centralized Access to All Organizations
- Why Implement?
 - Improved Efficiency
- What is Impacted?
 - Payables
 - Procurement
 - Supply Chain Management
 - Order Management
 - Customer Data Management
 - Receivables



MOAC







Examples of Functions with Multi-Org Access Control:

Area/Module	MOAC Functions
Payables	Funds Disbursement and Receipts
Procurement	Requisitions, Demand, & Purchase Orders
Supply Chain Management	Receiving
Order Management	Order Management
Customer Data Management	Trading Community Architecture (TCA) Credit Card Numbers
Receivables	Billing and Collections





Examples of Functions with Multi-Org Access Control:

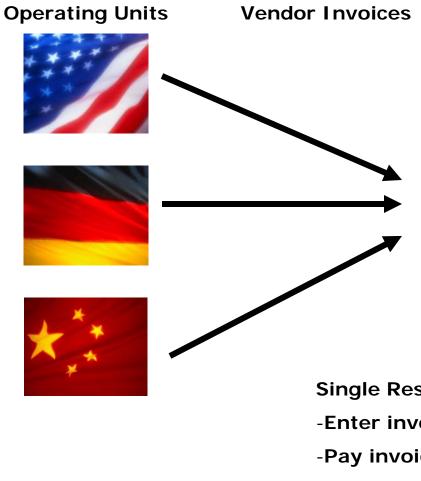
Area/Module	MOAC Functions
Payables	Funds Disbursement and Receipts
Procurement	Requisitions, Demand, & Purchase Orders
Supply Chain Management	Receiving
Order Management	Order Management
Customer Data Management	Trading Community Architecture (TCA) Credit Card Numbers
Receivables	Billing and Collections







MOAC: Centralized Functions by Module



Payables and Payments Clerks



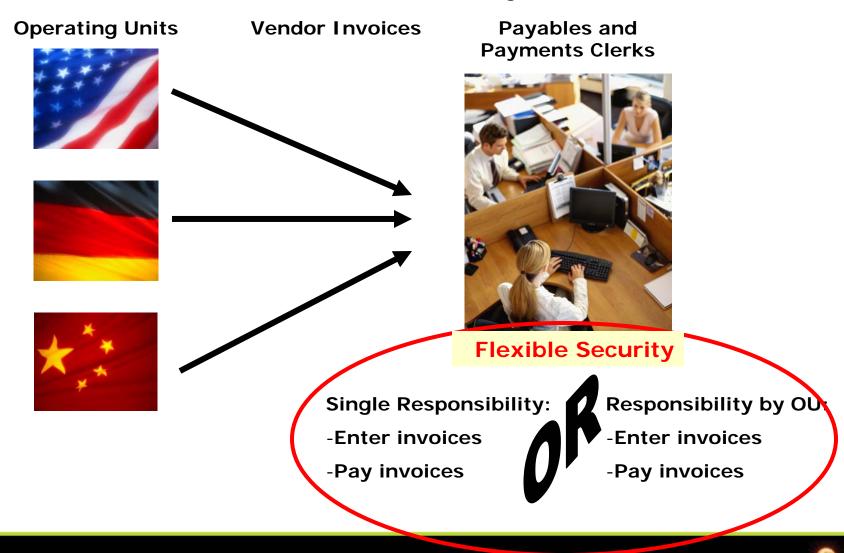
Single Responsibility: -Enter invoices -Pay invoices Responsibility by OU: -Enter invoices -Pay invoices







MOAC: Centralized Functions by Module







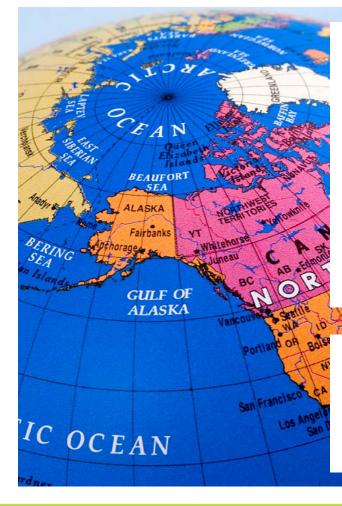
MOAC: Flexible Security

- Daily Task Access
 - Responsibilities at OU or multi-OU access levels
 - New "templates" for daily functions (ie.Payments) allows for single or multi-OU access
- Reporting
 - Single or Multi-Operating Unit
 - OU parameter added to standard reports
- User Interface
 - Clearly displays operating





Release 12: "The Global Release"



Global Architecture Apps Functions

- Multi-Org Access Control (MOAC)
- Subledger Accounting (SLA)
- Ledgers and Ledger Sets

Database Structures

- Trading Community Architecture (TCA)
- Oracle Applications Tablespace Model (OATM)

Global Business Functions

- New Modules
- E-Business Tax

WT CO KE MAR IS AL

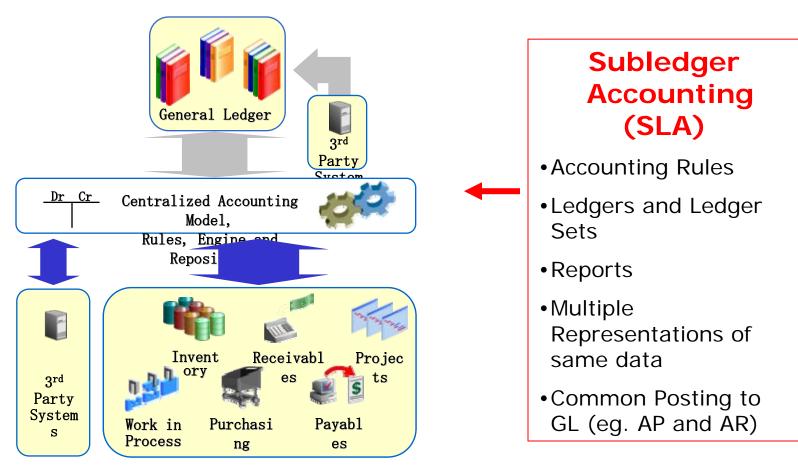
- Banking Model
- Manufacturing Enhancements







Release 12: Subledger Accounting (SLA)



⁺Diagram from Burns, Mary (2007); **Overview of the New Financial Architecture in Oracle E-Business Suite Release 12**







Benefits of SLA

Benefit	Achieved Via
Corporate Rules	Accounting Standardization
Local Rules	Improved Local Compliance
Increases Control	Common Data Model Data Model and Repository
Increases Auditability	Full Drill Down Capabilities
Streamlines Closing Process	Common Posting Engine
Global Compliance	Multiple Accounting Representation

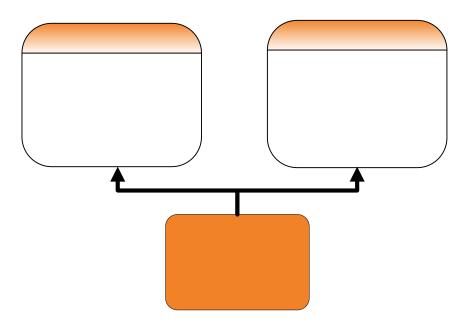






Benefits of SLA - Example

- Multiple Accounting Representation = Global Compliance
 - Same data, different view

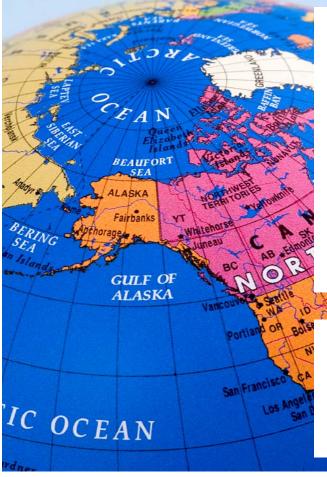








Release 12: "The Global Release"



Global Architecture Apps Functions

- Multi-Org Access Control (MOAC)
- Subledger Accounting (SLA)
- Ledgers and Ledger Sets

Database Structures

- Trading Community Architecture (TCA)
- Oracle Applications Tablespace Model (OATM)

Global Business Functions

- New Modules
- E-Business Tax

WT CO KE MAR IS AL

- Banking Model
- Manufacturing Enhancements



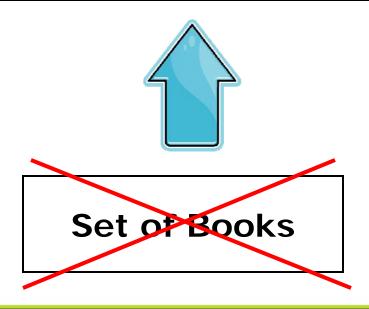




Release 12: Ledgers and Ledger Sets

No More SOBs!

Ledgers & Ledger Sets







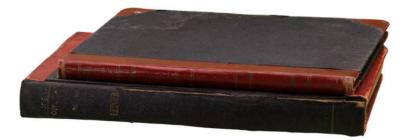


Release 12: Ledgers and Ledger Sets

Ledger – Repository of Financial Truth

- Accounting Method
- <u>Chart of Accounts</u>
- <u>C</u>alendar
- <u>C</u>urrency





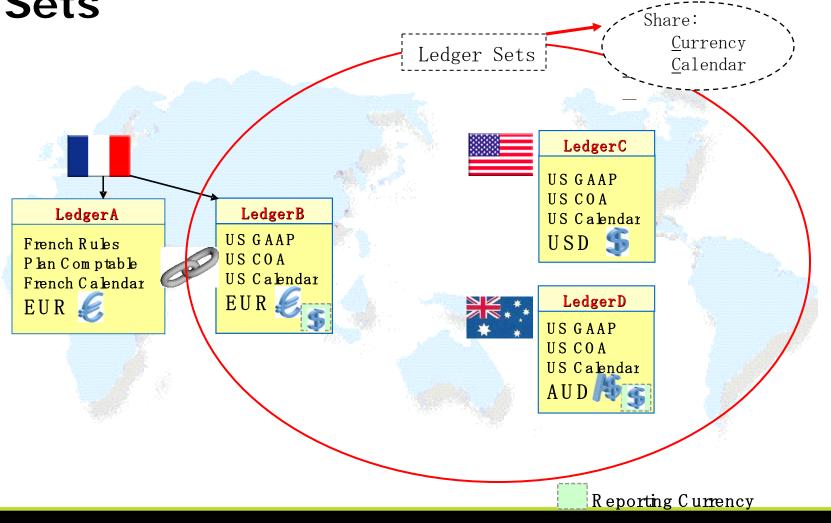
Ledger Sets – Global Information at a Glance

- <u>Chart of Accounts</u>
- <u>C</u>alendar





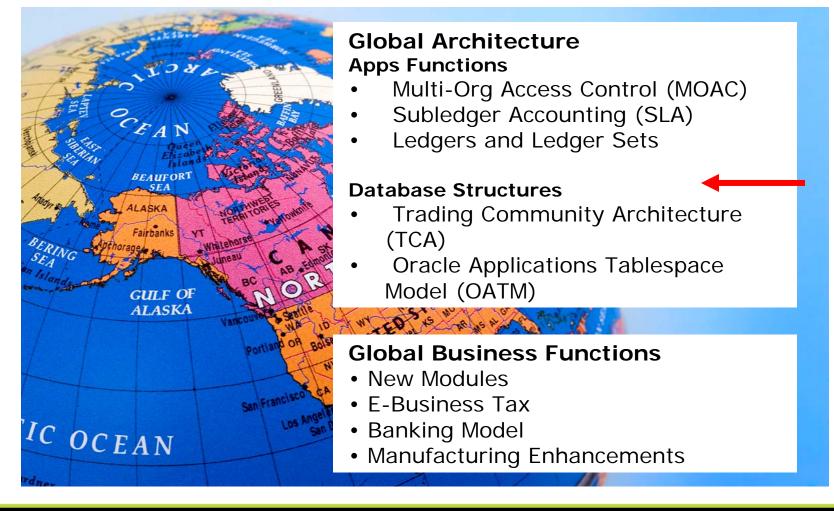
Release 12: Ledgers and Ledger Sets







Release 12: "The Global Release"









Release 12: Database Changes

Trading Community Architecture (TCA)-

Centralized location for any trading partner including:

- Customers
- Suppliers
- Employees
- Banks





Benefits

- Centralized information
- Global view of customers and vendors





Release 12: Database Changes

Oracle Applications Tablespace Model (OATM)

Consolidation of 300+ tablespaces to 12:

- 1 Base Tables
- 1 Index Mgmt
- 10 database management:
 - Undo
 - Temporary
 - System



Benefits

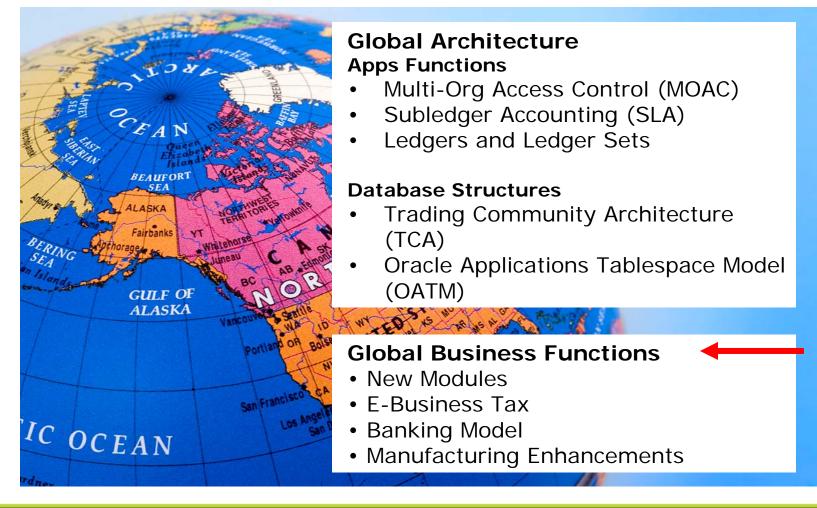
- Ease of management
- Efficient Space Utilization
- Options: Uniform extent allocation or auto allocate







Release 12: "The Global Release"









Release 12: Global Business Functions

Global Business Functions Achieved through:

Several New Modules

- Payments
- E-Business Tax
- Sourcing Optimization
- Project Portfolio Planning
- Service Desk
- Case Management
- Clinical Data Repository
- Customer Loyalty
- Utility Biller
- Financial Consolidation Hub
- Healthcare Intelligence

2,400+ New Capabilities

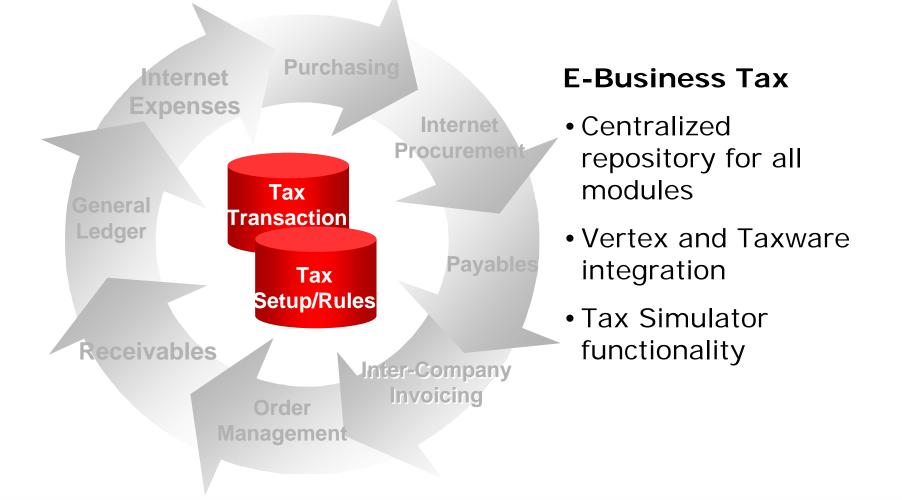








E-Business Tax

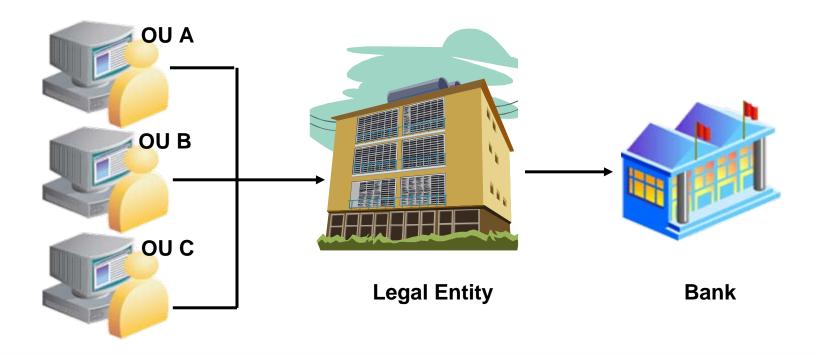






New Banking Model

Bank Accounts tied to Legal Entity rather than each Operating Unit



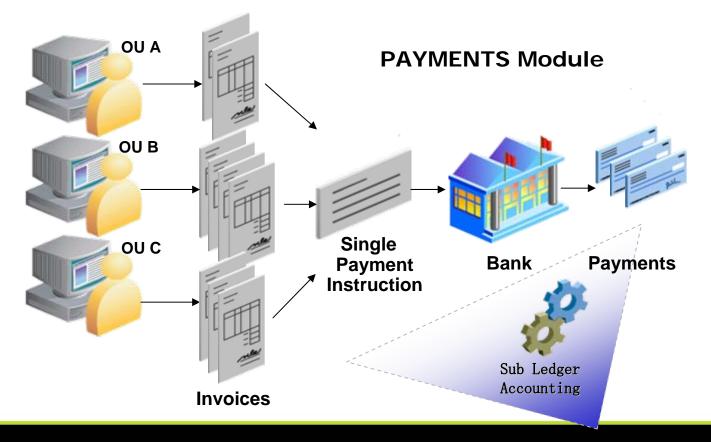






New Banking Model

Centralized banking allows for increased efficiency in daily tasks







- Manufacturing Execution System (MES)
- Converged Single Source Global Inventory
- Demantra
- Transportation Management







- Manufacturing Execution System (MES)
 - "One Stop Shop" for Shop Floor Operations including:
 - WIP
 - Quality
 - Time and Labor Tracking
 - On-line Instructions and Requirements
 - Clock In/Clock Out
 - Designed for both Discrete and Process







- Converged, Single Source Global Inventory Model
 - Discrete and Process Mfg Data in Common Data Model
 - Globalization: single source of information for mixed-mode manufacturers
 - Process Flow is the most impacted
 - Requires separate organizations for process vs. discrete







Demantra

- Point solution (not part of EBS)
- Advanced Demand Management
- Trade Promotion Management
- "Real Time" Sales Operations Planning



Transportation Management

- Freight Cost Reduction
- 100% Web-based
- Highly Configurable
- Global Business Support







"The Global Release" Summary







Agenda

- Release 12: Benefits and Changes
- Overview of Current R12 Upgrade
 - Thoughts on R12 Upgrades
 - Project Timeframe
 - -Preparatory Steps
 - What We Have Learned
 - Q & A







Overview of Current Upgrade

- Upgrade Levels:
 - –Application: 11.0.3 → (11.5.10) → 12.0.2
 - Database: 8.0.6 → 10g
- Customizations
 - -Minimal extensions/customizations
 - -Custom Interface between legacy Order Entry System and Apps







Overview of Current Upgrade

- Existing Modules:
 - General Ledger
 - Payables
 - Inventory
 - Bill of Materials
 - MRP
 - Engineering
 - Purchasing
 - Cash Mgmt

- New Modules:
 - Payments
 - E-Business Tax
 - Legal Entity
 Configurator
 - Subledger
 Accounting





Overview of Current Upgrade

- Client Team:
 - Project Sponsor
 - IT Staff (2)
 - Steering Committee
 - SMEs:
 - Finance
 - Purchasing
 - Material Control
 - Engineering
 - Planning







Overview of Current Upgrade

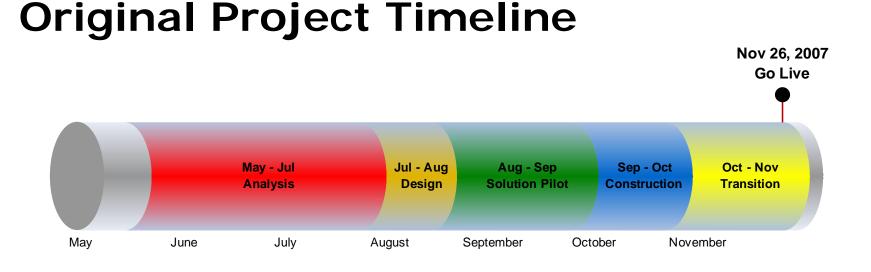
- Traust Team:
 - Project Manager/BA
 - Manufacturing BA
 - Financials BA
 - Developer
 - DBA











- Timeline:
 - 6 Months ____
 - 5 Phases ___









0	Original Project Timeline											
		May Anal		Jul - Aug Design	Sep - Oct Construction	Oct - Nov Transition						
	May June July August September October November											
	Analysis • Business Requirements Analysis • Infrastructure Planning/DBA Work											
	Design		• Test Case Creation and Approval • Upgrade "playbook" creation by DBA's									
	Solution P	Pilot										
	Construct	ion	• UDR-2 and UDR-3 • User Acceptance Testing (UDR-4)									
	Transition		• User Acceptance Testing (UDR-4) • Final Practice Simulation (UDR-5) • Go Live! • Stabilization									





Project Timeline Slippage

- Why?
 - Infrastructure Issues:
 - Migration to 64-bit application and database tier
 - Issues generated during upgrade from 11.0.3 to 12
 - Module Issues:
 - Payables Invoice Workbench
 - Payments
 - Reports mostly Payables







Project Timeline Slippage

• Count of open service requests (as of 10/07)

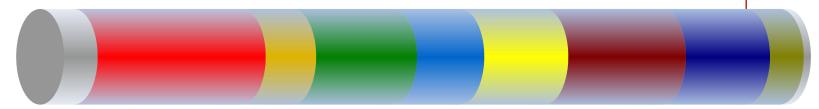
Category	SRs
AP Invoice Workbench	6
Payments	2
Reports - Payables	4
Reports - Purchasing	2

- Risk Mitigation
 - First Oracle Customer Service Rep
 - Second Oracle Critical Accounts
 - Prioritization of SRs to focus Oracle
 Development





Final Project Timeline



- Timeline:
 - 8.5 Months
 - 5 Phases
 - 2 Extensions
 - 1 additional upgrade dry run





Agenda

- Release 12: Benefits and Changes
- Overview of Current R12 Upgrade
- Thoughts on R12 Upgrades
 - -Project Timeframe
 - -Preparatory Steps
 - What We Have Learned
 - Q & A







Project Timeframe

- Considerations
 - Number of Modules
 - Current Project = 8 + 4 new = 12
 - Number of Months = 5.5 + 1.5
 - Number of Customizations
 - Forms
 - Reports
 - Where do customizations reside? In modules with significant changes?





Project Timeframe (cont.)

- Considerations (cont)
 - Experience with R12
 - New Forms
 - New Setups
 - New Modules
 - "Re-learning" of the apps
 - Areas of greatest estimated vs. actual timeframes
 - Test Cases
 - New module Setups
 - Service Requests







Agenda

- Release 12: Benefits and Changes
- Overview of Current R12 Upgrade
- Thoughts on R12 Upgrades

 Project Timeframe
 - Preparatory Steps
 - What We Have Learned
- Q & A





Preparatory Steps

- Functional Team Prep
 - Read, read, read
 - Implementation Guide
 - Upgrade Guide
 - Individual Module Guide





Practice in Vision Environment

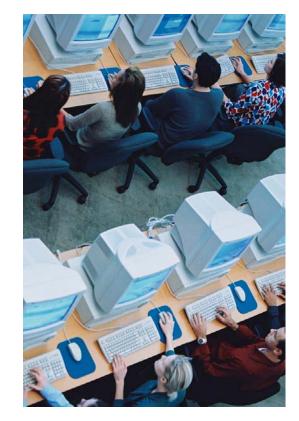
- New navigations
- New "feel" to the apps





Preparatory Steps

- Technical Team Prep
 - New Technology Training
 - Based on Forms 10
 - Utilizes Fusion Middleware/Application Developer Framework
 - BI Publisher
 - JDeveloper









Customizations/Extensions

- Forms Customizations
 - Traditional Forms
 - Based on Forms 10
 - Self-service forms
 - OA Framework Personalization
 - Allows you to personalize by adding and hiding fields or making fields required
 - Difficult to customize because not just one form
 - » Java Classes
 - » XML Files
 - » "Metadata Files"
 - » JSP Files







Customizations/Extensions

- Reports Customizations
 - Traditional Reports
 - Based on Reports 10g
 - BI Publisher (previously XML Publisher)
 - XML, XSL-FO
 - Large number of RTF templates available
 - Easily customized
 - Still require some XSL-FO coding (more difficult)
 - Output Options:
 - PDF, Excel, HTML, Word, PowerPoint
 - Font Options (as long as installed on server)







Agenda

- Release 12: Benefits and Changes
- Overview of Current R12 Upgrade
- Thoughts on R12 Upgrades
 - Project Timeframe
 - Preparatory Steps
 - What We Have Learned
- Q & A





Lessons Learned/Challenges



- The Upgrade
- Financial Reports
- Training
- Financial Setups









- The Upgrade
 - 11.0.3 to 11.5.10 interim
 - Longest, most difficult part of upgrade
 - Different issues each run through
 - 11.5.10 interim to 12.0.2
 - Streamlined upgrade
 - Minimal Issues
 - Option: Maintenance Wizard
 - Assists with upgrades and patches
 - Requires additional database





- Financial Reports
 - Moved to new data structure
 - Moved to BI Publisher format
 - Several not functioning correctly
 - Includes critical reports:
 - AP and PO Reconciliation
 - Purchase and Invoice Price Variance
 - 1099 Reports
 - Recommendations:
 - Increase testing time
 - Perform detailed validation







What we have learned

- Training
 - Increase time for training, especially in Financials
 - Users need hands-on activity prior to UAT
 - Increase comfort level



- New navigation
- Movement between traditional forms
 → Self service → traditional forms
- New modules







- Training Example: GL Drilldown
 - Navigating between traditional and self-service forms

				Batch Status	Source	Cat	egory P	eriod Batch Nam	e Jou				
				Posted	Payables	Pur	chase Invoic J	AN-07 31-jan-07 a	o tr Payabli Pur				
				Ĩ.		Odourna	IS (MATE PREC	ISION TOOLING) - 31-ja	in-07 ap tr Payables 97523	48: A 66822			
mats	7.0		-				Journ	al Purchase Invoices	USD		Conversion		Reverse
					1		Descriptio	Journal Import 975	52348:		Currency	USD	Date
Batch					í	-	Leda	er MATE PRECISIO	N Category	Purchase Invoices	Date	25-JAN-2007	Period
Journal						-	Peri		Effective Date	1	Түре	User	Method
Ledger						-	Balance Ty		Budget	20 07 11 2001	Rate	1	Status
	Payables		MAR-06								Rate	Ľ. – – – – – – – – – – – – – – – – – – –	Status
	Purchase Invoices	Currency Control Total	-		1	C	learing Compa	ער [Not Required	5	_	
Posting		Batch			1				Control Total			[]]	1
Funds		Journal				Lir	nes Oth	er Information					
					1								
				More)		Line A	ccount		Debit (USD	Credit (USD)	Description		
			-			1 0'	1.000.1200		8,465.7		Journal Impor	t Created	
		Clear		Find	Ì	2 0	1.000.1410		2,103.30		Journal Impor	t Created	
					i	3 0	1.000.1410			389.30	2 Journal Impor		
								2 · · · · · · · · · · · · · · · · · · ·		1	4		
											burnal Imnor	t Created	
	ORAC	LE'									Durnal Importation of the second s		
	ORAC	LE.							Preferences Help Cl	ose Window	purnal Impor	t Created	
									Preferences Help Cl	ose Window	purnal Impor purnal Impor	t Created t Created	
	View Journal Ent								Preferences Help Clu		burnal Impor burnal Impor burnal Impor	t Created t Created t Created	
	View Journal Ent	try Lines								ose Window Save Search	purnal Impor purnal Impor	t Created t Created t Created	
	View Journal Ent	try Lines MATE PRECISION	TOOLING					bles 9752348: A 66			burnal Impor burnal Impor burnal Impor	t Created t Created t Created	
	View Journal Ent Ledger M Period J	try Lines 4ATE PRECISION 4AN-07	TOOLING	GL Journal I	Entry Name	Purchas)7 ap tr Paya e Invoices US				burnal Impor burnal Impor burnal Impor	t Created t Created t Created	
	View Journal Ent Ledger M Period J Currency U	try Lines 4ATE PRECISION 4AN-07	TOOLING	GL Journal I Ac		Purchas					burnal Impor burnal Impor burnal Impor	t Created t Created t Created	
	View Journal Ent Ledger M Period J Currency U Account 0	Try Lines MATE PRECISION (AN-07 (SD (1).000.1410	TOOLING	GL Journal I Ac	Entry Name counted DR	Purchas					burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger N Period J Currency U Account O Advanced Sear	try Lines MATE PRECISION AN-07 JSD 01.000.1410 rch		GL Journal I Aci Aci	Entry Name counted DR counted CR	Purchas					burnal Impor burnal Impor burnal Impor	t Created t Created t Created	
	View Journal Ent Ledger M Period J Currency U Account O Advanced Sear Specify parameters	try Lines MATE PRECISION AN-07 ISD 01.000.1410 rch s and values to fill	lter the data	GL Journal I Ac Ac that is displayed	Entry Name counted DR counted CR	Purchas					burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger M Period J Currency U Account O Advanced Sear Specify parameter (•) Show table dat	Try Lines MATE PRECISION AN-07 ISD 01.000.1410 rch s and values to fil a when all conditi	lter the data ions are met.	GL Journal I Ac Ac that is displayed	Entry Name counted DR counted CR	Purchas					burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger M Period J Currency U Account O Advanced Sear Specify parameters	TY Lines ATE PRECISION AN-07 ISD 01.000.1410 rch s and values to fill a when all conditi a when any condi	lter the data ions are met.	GL Journal I Ac Ac that is displayed	Entry Name counted DR counted CR	Purchas	e Invoices US				burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger N Period J Curreny U Account 0 Advanced Sear Specify parameter © Show table dat	ATE PRECISION AN-07 ISD D1.000.1410 rch a when all conditi a when any condi Ledger	lter the data ions are met.	GL Journal I Ac Ac that is displayed	Entry Name counted DR counted CR	Purchas					burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger N Period J Curreny U Account 0 Advanced Sear Specify parameter © Show table dat	TY Lines ATE PRECISION AN-07 ISD 01.000.1410 rch s and values to fill a when all conditi a when any condi	lter the data ions are met.	GL Journal I Ac Ac that is displayed	Entry Name counted DR counted CR	Purchas	e Invoices US				burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger M Period J Curreny U Account O Advanced Sear Specify parameter \odot Show table dat Show table dat Balance	ATE PRECISION AN-07 ISD D1.000.1410 rch a when all conditi a when any condi Ledger	Iter the data ions are met. ition is met.	GL Journal I Ac Ac that is displayed	Entry Name counted DR counted CR	Purchas	e Invoices US				burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger N Period J Curreny U Account 0 Advanced Sear Specify parameter ⊙ Show table dat Show table dat Balance	ATE PRECISION VAN-07 ISD D1.000.1410 rch s and values to fil ia when all conditi Ledger cing Segment uunt Segment	Iter the data ions are met. ition is met. is is is	GL Journal I Acc that is displayed	Entry Name counted DR counted CR	Purchas	e Invoices US				burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger N Period J Curreny U Account 0 Advanced Sear Specify parameter ⊙ Show table dat Show table dat Balance	ATE PRECISION VAII-07 ISD D1.000.1410 rch s and values to fill ta when all conditi Ledger cing Segment	Iter the data ions are met. ition is met. is is is	GL Journal I Ac Ac that is displayed	Entry Name counted DR counted CR in your resu	Purchas 389.32 ults set.	e Invoices US	D			burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger N Period J Curreny U Account 0 Advanced Sear Specify parameter ⊙ Show table dat Show table dat Balance	ATE PRECISION VAN-07 ISD D1.000.1410 rch s and values to fil ia when all conditi Ledger cing Segment uunt Segment	Iter the data ions are met. ition is met. is is is	GL Journal I Acc that is displayed	Entry Name counted DR counted CR in your resu	Purchas	e Invoices US				burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	
	View Journal Ent Ledger N Period J Curreny U Account 0 Advanced Sear Specify parameter ⊙ Show table dat Show table dat Balance	AATE PRECISION VAN-07 ISD D1.000.1410 rch s and values to filt a when all control Ledger cing Segment ununt Segment GL Date	iter the data ions are met. is is is is is is	GL Journal H Ac Ac that is displayed	Entry Name counted DR counted CR in your resu	Purchas 389.32 ults set.	e Invoices US	D			burnal Impor burnal Impor burnal Impor	t Created t Created t Created t Created	







- Financial Setups
 - Release and Module Manuals in Infancy
 - Oracle Analysts
 - Leads well-trained
 - First-line Analyst usually requires assistance of lead
 - Oracle SR work
 - Overall very good
 - Fastest resolutions with OWC sessions
 - Analysts learning and training







Summary

- Release 12 is truly a Globalization Upgrade
- Streamlined upgrade process from 11.5.10 → 12.0.2
- Training
 - Technical staff
 - Exposure to R12 for Functional staff
 - End users: new modules, new navigation style
- R12.0.2 validation seems good except for reports
- R12 literature lacking in information







O & A







Release 12: **Additional Screen Shots**









Payments Dashboard

Home Templates Payment Process Requests	Payment Instructions	Payments					A CONTRACTOR OF THE OWNER
Search	Payments Da						Completed Need Action Program Errors
Template	Today's Payme Need Action	ent Process Requests Program Errors Pl	rocessing Use	r Terminated	Completed	Total	User Terminated Processing
Templates				Terminacea		2	Today's Payment Process
Go	Refresh Sta	atus					Requests
Submit Cash Requirements Report	Pending Action			Payment Process	Request	Start	
Create Template Schedule Payment Process		ment Process Request results found.	Created Date	Status		Action	
Request	140	results lound.					
Submit Single Payment Process Request							100.00%
<u>Create Printed Payment</u> Instructions							Data
Create Electronic Payment							
Instructions Review Completed Payments							
Stop or Void Payments							
Concurrent Requests							
Submit a Request Monitor Requests							





• Payables Invoices - now have lines

<mark>O</mark> Ir	voice Workbench (Paya	bles Manager) - test 🕬				·					-0000 - 2	л×
	Batch Control Total							Batch A	Actual Total			
2	ī											1
			_			-						
_		Customer Taxpayer ID		PO Number	Trading Pa	Sup	plier Num	Supplier Site	Invoice Date	Invoice Num	Invoice	
	USA MPT GLOBAL		Standard								USD	
												[÷
	(I)										Þ	j 👘
	1 General	2 Lines	3 Holds	4	View Payme	ents	5 Sche	eduled Paymer	nts 6 View I	⊃repayment Ap	nlications	1
	Toppola	2 Emos	<u>g</u> nondo		non r ajna	onto	150000	aaloa i ajillo		iopajiioini i	phoationio	
ſ	Summary		Amount P	aid		ור	-Status					1
	ltems	;		10				Si	tatus Never	Validated		
	Retainage							Αссοι	Inted Unpro	cessed		
	Prepayments Applied	1)			roval Not Re			
	Withholding	1	-						lolds	•		
	Subtota		-				Cohodul	Ied Paγment H				
	Ta		-				Scheuu	ieu Fayment i	ioius [
	Freigh		_				·					
	Miscellaneous		_				Descriptio	n				
			_									
	Tota	'I]									
						_						
	Actions 1	Calc <u>u</u> late Tax	Ta <u>x</u> Details	Correct	ions		Quick Mate	h 🗍 🔔	Match	All Dis	tri <u>b</u> utions	





• Supplier Entry

	lose V
Suppliers > Update ESSE A - 1554: Quick Update * Indicates required field * Supplier Name Supplier Number Alternate Supplier Name Registry ID 3357 Inactive Date Altars	
Supplier Sites Site Status Active Site Name Operating Unit Go Key Purchasing Setups Key Payment Setups Freate	
Site Operating Ship-To Invoice RTS Invoice	ntifier
	Suppliers > Update ESSE A - 1554: Quick Update * Indicates required field * Supplier Name Supplier Name Registry ID Inactive Date (sample: 29Hov-2007) Alas Supplier Sites Ste Status Active Site Name Operating Ship-To Name Unit Location Site Operating Ship-To Name Unit Location Ship Via Pay On Alternate Pay Site Summary Level Transaction Numbering "Selling Company Ider Reg Wint USA MPT BELL TO SITE VPS COLLECT #560- V