

Administration of Users, Roles and Responsibilities in Release 12 – When Technologies Collide

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Role Based Access Control (RBAC)





Role Based Access Control (RBAC)

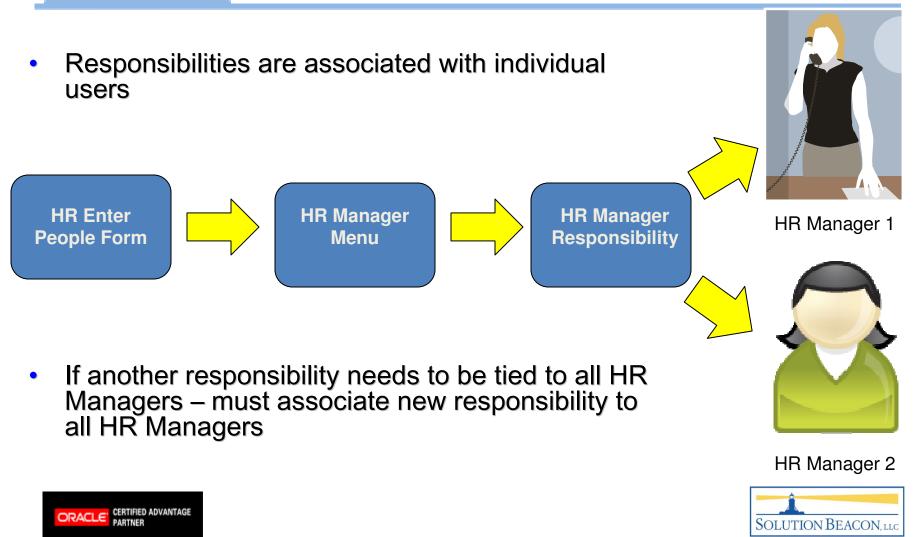
• What is RBAC?

CERTIFIED ADVANTAGE

- MetaLink Doc. ID: 290525.1 "Role Based Access Control (RBAC) is an ANSI standard (ANSI INCITS 359-2004) supported by the National Institute of Standards & Technology (NIST).
- The RBAC standard supports the mapping of user access control based upon a user's role in the organization rather than their unique identity
- Responsibilities aggregate menus/functions for navigation
- Roles correlate functions to specific data access
- Role inheritance reduces user administration

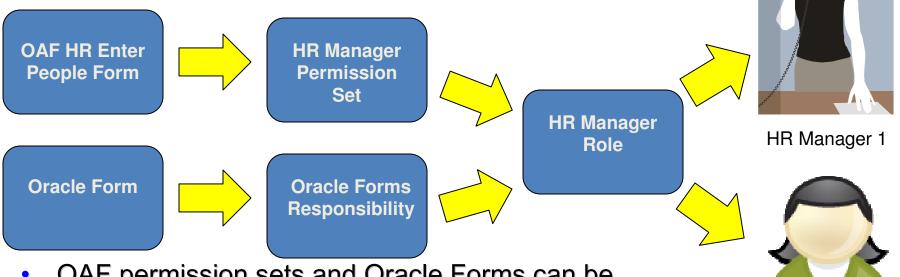


Oracle Forms User Provisioning



Oracle Application Framework User Provisioning

- Roles are associated with individual users
- Supports RBAC standard of role based provisioning



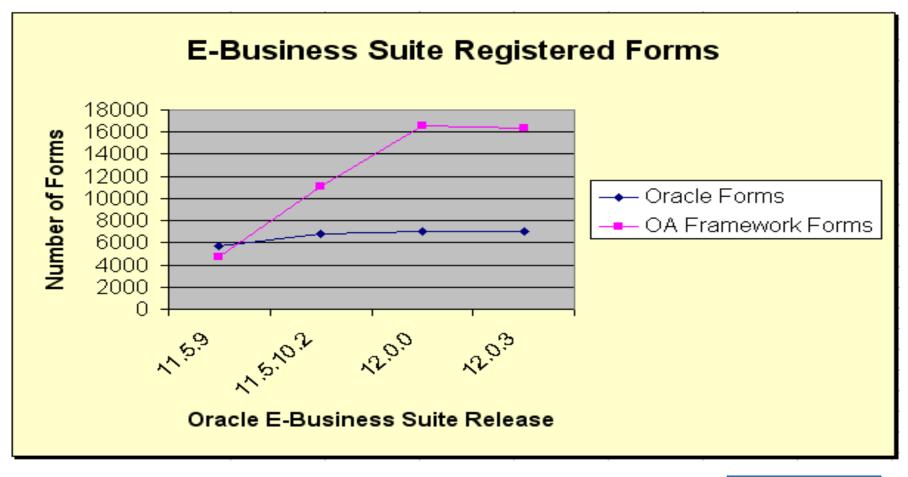
- OAF permission sets and Oracle Forms can be provisioned to a role
- When new responsibilities are added only need to provision to HR Manager role – not each individual user

HR Manager 2





Pervasiveness of OA Framework





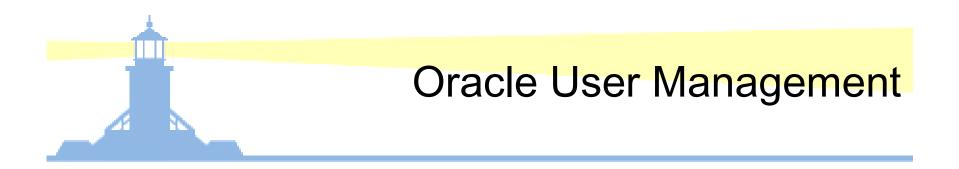




Oracle User Management







- Role Design, Creation and Assignment
- Registration Processes
- Manage Proxies
- Product Family Functionality





Oracle User Management

- Grants
 - Grant specific users to roles and/or responsibilities
 - Grant specific users to Data Security Policies
- Data Security Policies
 - Regulates specific data accesses can be for specific columns (data instance) or a group of rows (instance set)
- Registration Processes
 - New user registration integrates with AME for approvals
 - Default registration policy is "email"
 - That's why Self-Service userids are usually email addresses





Initial Grant

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Object Details - Microsoft Internet Explorer				
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Role Administration privileges.	Group Of Users Partner Administrator	04-Aug-2004	Assign / Revoke Role Instance	
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Return to Object Search				Update Delete
	Security Core Services Hom	e Logout Preferences Diagnostics		
About this Page Privacy Statement			Copyright (c) 20	06, Oracle. All rights reserved.
8				🥝 Internet
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- Default User Management provisioning is granted to SYSADMIN userid
- Must login as SYSADMIN and grant User Management role to group of users or specific user





Details Role	Description	Status
<u>Show</u> SB_CK_SPECIFIC_LE_VISION_JAPAN	SB_CK_SPECIFIC_LE_VISION_JAPAN	Assigned
Hide Jecurity Administrator	Security Administrators manage all user acco system, and can assign / revoke all roles. Se Administrators also manage system accounts GUEST), that are not tied to a person.	curity
* Active From 30-Apr-2 Role Inheritance User Ma	2007 Active To	
	without sharing your password.	
Eshow Territory Reports View Operation	Territory Reports View Operation	Assigned
<u>Show</u> Matching Attributes Enabling	Matching Attributes Enabling	Assigned
⊕ <u>Show</u> Named Account Management (Admin)	Named Account Management (Admin)	Assigned
<mark>⊞ Show</mark> Sales Team Search	Sales Team Search	Assigned
Hide JHide User Management	User Management	
Inherited inherited roles can only be revoked thr Inherit Inherited From Security Administ		_
Bhow Territory Maintenance Show Territory Maintenance	Territory Maintenance for all Osages	Assigned

Must grant the seeded Security Administrator role

Role inheritance provides the User Management role

ORACLE CERTIFIED ADVANTAGE PARTNER



Indirect Responsibility

User Name SPARROW Person Sparrow, Jack Password Description Sparrow, Jack Password Expiration Password Exp	sers					
Password Customer Description Sparrow, Jack Supplier E-Mail Password Expiration Fax Days Accesses Accesses User Management is an Indirect Responsibility From Op-AUG-2007 To To To Direct Responsibilities Indirect Responsibilities Security Effective Dates Prom To Direct Responsibilities Security From To User Management Application User Management Application Object Library Standard O9-AUG-2007 User Management Application Object Library						
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- Shows as indirect responsibility on System Administrator user form
- Held in WF_ROLES and WF_USER_ROLE _ASSIGNMENTS



Roles vs. Responsibilities

Augentine Payables	FND_RESP JL ARGENTINE_PAYABLES STANDARD	Latin America Localizations	1	1	÷	
All Argentine	FND_RESP JL ARGENTINE_RECEIVABLES STANDARD	Latin America	~	1	÷	
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elgium	THNU_RESP[UHA]HA_WEB_ASSET_INQUIRY_BETSTANDAKD	ASSETS "	-	1	÷	
A Asset Inquiry Vision France	FND_RESP OFA FA_WEB_ASSET_INQUIRY_FR STANDARD	Assets	~	1	÷	
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\$ 🗢 💝 Approvals Management Business Analyst	UMX[AME_BUS_ANALYST	Human Resources	~	1	÷	

Responsibilities begin with FND_RESP

Roles begin with UMX

User Management

objects belong to FND schema

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Seeded Security Administration Roles

🖃 🧀 Security Administration					
Approvals Management Administrator	UMX AME_APP_ADMIN	Human Resources	1	1	+
Approvals Management Business Analyst	UMX AME_BUS_ANALYST	Human Resources	1	1	÷
Approvals Management Process Owner	UMX AME_BUS_PROCESS_OWNER	Human Resources	1	1	÷
Approvals Management System Administrator	UMX AME_TTYPE_ADMIN	Human Resources	1	1	÷
Approvals Management System Viewer	UMX AME_ADM_VIEWER	Human Resources	~	1	÷
🙂 🏸 Customer Administrator	UMX UMX_EXT_ADMIN	Application Object Library		J	÷
🥍 Manage Proxies	UMX/UMX_MANAGE_PROXIES	Application Object Library	×	1	÷
± 🥬 Partner Administrator	UMX UMX_PARTNER_ADMIN	Application Object Library		1	÷
🙄 🅓 Pirate Administrator	UMX/UMX_PIRATE_ADMIN	Application Object Library	~	Ø	÷
± 🥬 Security Administrator	UMX SECURITY_ADMIN	Application Object Library		1	÷
🗥 🕪 iReceivables Customer Administrator	UMX ARI_CUST_ADMIN	Receivables	~	1	÷
🞾 iSetup Super User	UMX AZ_SUPER_USER	Application Implementation	1	1	÷

Security Administrator can manage all users and assign/revoke roles

Customer Administrators manage in their own organization

Partner Administrators manage in their own and partner organizations



New Administrator Role Creation

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Users Roles & Rol	e Inheri	tance F	Role Categories Registratio	on Processes				
User Management: Role								
Update Role : Pirate /	Administ	rator						10
	gory S ande UN Adm Adm us us	n inistrat epresents ex er accounts			Cancel S Application Object Library 09-Aug-2007 (example: 25-Jul-2007)	Security Wizards	Save	Apply
Permissions Create Grant Name	Set	Object	Data Context Type	Access Policy	Last Update	Duplicate	Update	Delete
No results found.								
					Cancel	Security Wizards	Save	Apply

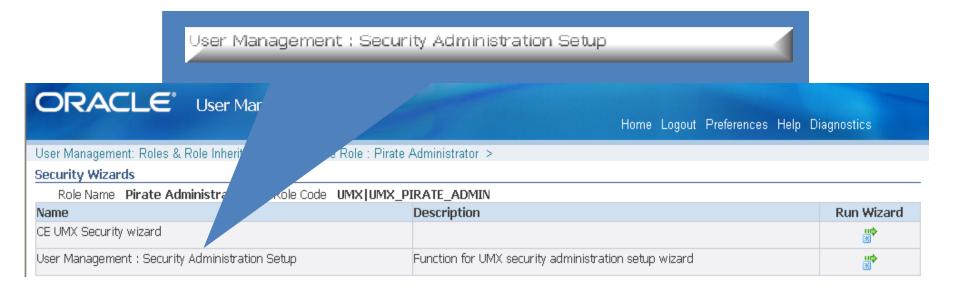
Different administrator roles can be created to service different TCA party types (i.e. partners, customers, suppliers and even PIRATES!)





System Administration Security Wizards

- Two Security Wizards are packaged with Release 12 which provide breadcrumb setup processes
- MetaLink Doc. ID: 401463.1 suggests that more products will deliver security wizards in future patch releases







Security Administration Wizard

							Home Logout	Preferences H	ieip Diagn	OSTICS	
ser Management											
	Role Inheritance		DCESSES								
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	User Mai	nagement Person		Instance	Set		People in F	Partner	Orga	niza	ati
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	User Mai	nagement Role		Instance			UMX UMX	_PIRAT	E_AD	MIN	
Permissions Create Grant	User Mai	nagement Role		Instance			UMX UMX	_PIRAT	E_AD	MIN	
	User Mai	set	Object		Data Context Typ			_PIRAT	_		
Create Grant			Object User Manage			De Access		Last Update	_		
Create Grant ame ser Administration		Set	User Manage	ment Person	Data Context Typ	pe Access People ir	Policy	Last Update	Duplicate	e Update	
Create Grant ame ser Administration	a privileges Istration privileges	Set Basic User Administratration Privileges	User Manage	ment Person ment Organization	Data Context Typ Instance Set	De Access People ir View Par	Policy Partner Organizations	Last Update	Duplicate	e Update	
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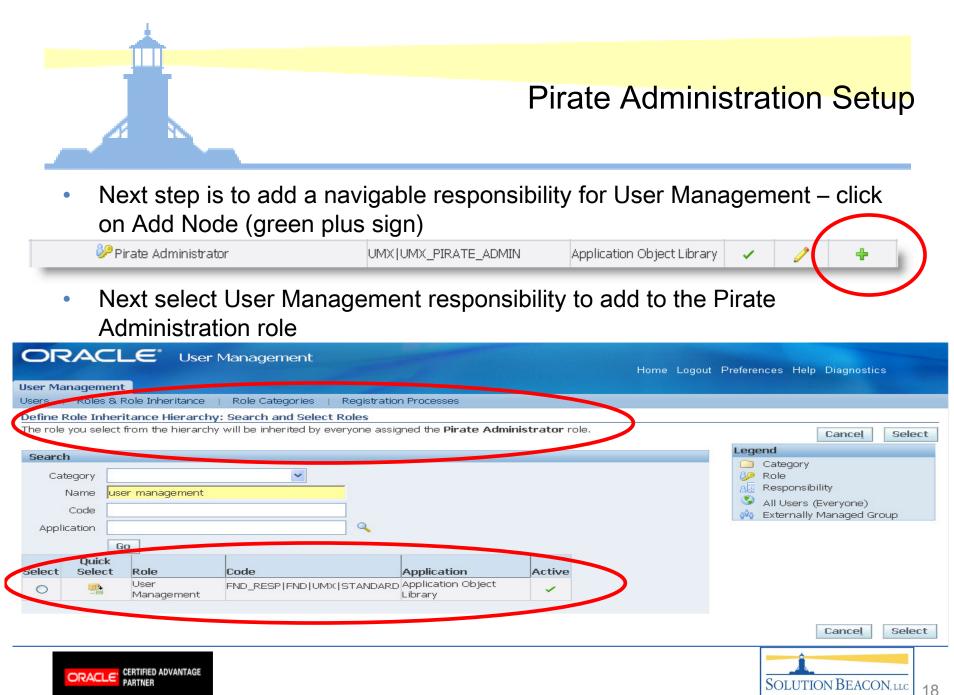
Security Administration Wizard adds Data Security Policies

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- Data Security Policies restrict actions that administrators can perform
 - Data Security Policies also indicate which TCA parties and organizations can be administered





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Pirate Administration Setup

• Last step is to create grant for User Management Menu

ORACLE® User Management	nces Help Diagnostics
User Management	
Users Roles & Role Inheritance Role Categories Registration Processes	
User Management: Roles & Role Inheritance > Update Role : Pirate Administrator >	
View Grant: UMX Menus	
Name UMX Menus	Delete Update
Description UMX Menus	
Effective From 13-Aug-2007	
Effective To	
Security Context	
Grantee Type Group Of Users Grantee Pirate Administrator Operating Unit Responsibility	
Set	
Nome Oser Maintenance UI's Code UMX_USER_ADMIN_UI_PERMS Description Gives access to the User Maintenance UI's. Must be granted to all User Administrator Roles.	
Return to Grants	Delete Update
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Pirate Administration Setup

🗆 🏸 Pirate Admini			(UMX_PIRATE			
Au User Mana	igement	FND	_RESP FND UM	IX STANDARD	Application Obje	ect Librar
Prefix First Name Jack Middle Name Last Name Sparrow	Email	parrow		(t Password Save Douck Tips Personal information orig from the HR system and o undated here	
irate Administrator		Represents exte for pirates in the		-	r accounts and a r organizations.	ccess As:
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- New Pirate Administration role now has wheels!
 - Jack Sparrow can now administer other pirates through User Management



Jack Sparrow – Pirate Administrator

User Name Emai Last Name First Name	il 	Organia	Role	ness World] 🔍			0	Maintain User Accounts Register new people, create/disable user accounts, and reset passwords. Control Access Grant access to different parts of the system by assigning/revoking roles.
Regist	arrow	Jack			<u> </u>	ien.	arrow		
Last I PF Smith	arrom	POICK	-			Jop	arrow	Ľ	
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Wang	Robert	rwang@bw.com	rwang	🖌 Active	1	12	1		
Register		✓ Go			I Previous	10 31-40 💌	<u>Next 10</u>		

Now login as Jack Sparrow and only users in the pirate organization can be managed



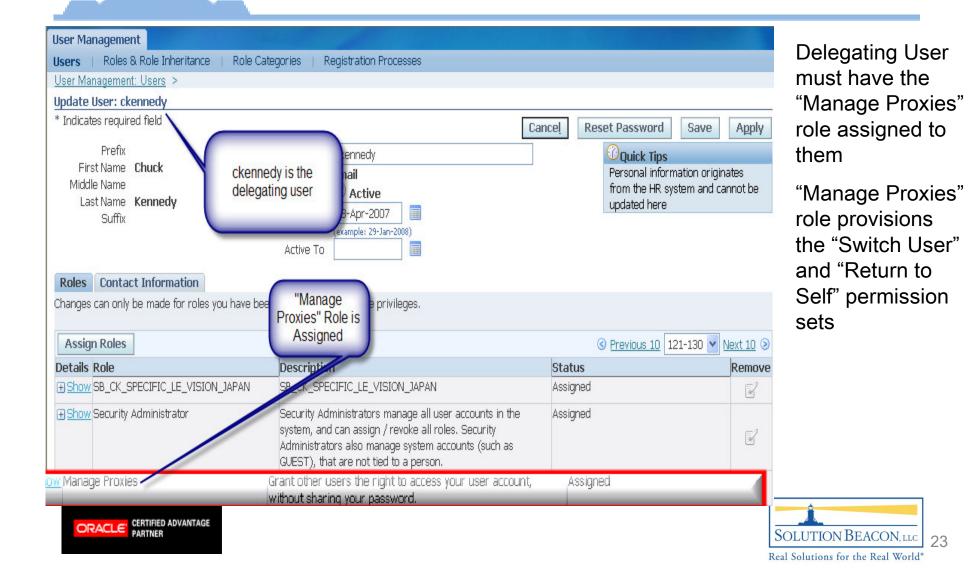


Manage Proxies





"Manage Proxies" Role



Manage Proxies

ORACLE	User Management Home Logout Preferences Help Personalize Page Diagnostics
User Management	
 General Display Preferences Access Requests Manage Proxies 	General Preferences Cancel Reset to Default Apply Languages Current Session Language American English (1) Under Default Application Language American English (2) 1) Accessibility Accessibility Proxies" Accessibility (1) Proxies Regional Regional Reset to Default
	Territory United States

Under Preferences off the Home Page – find "Manage Proxies" on the left side





• "Add People" button allows the delegating user to select their proxy user or users

ORACLO User Management	€° User Mana	gement		Home Logout I	Preferences Personalize I	Page Diagnostics
 General Display Preferences 	Manage Proxies: M Manage Proxies Manage the people		our account and act	on your behalf.	JSPARROW is now proxy for ckennedy	Cance! Apply
• Manage Proxies	Add People Ru etails Last Name Show Sparrow	un Proxy Repo First Name Jack	rt User Name JSPARROW	Start Date 29-Jan-2008 10:25:06	Date	
ORACLE ^{, CERT}	TIFIED ADVANTAGE				Sc	Cancel Apply



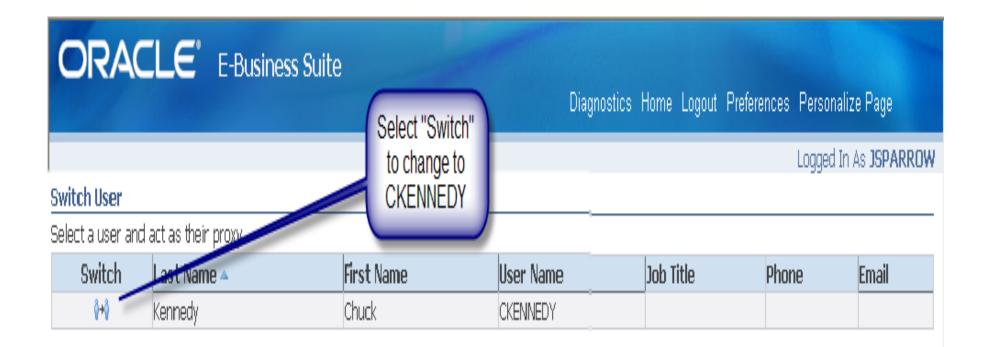
- Now logged in at JSPARROW which is the proxy user for CKENNEDY
- Select "Switch User"

ORACLE	E-Business Suite	Diagnostics Logout Pr	eferences Help Personalize Pag Switch User
Naulaatau			Logged In As JSPARROW
Navigator			Favorites
🛅 <u>User Management</u>	Please select a responsibility.	Personalize	You have not selected any favorites. Please use the "Personalize" button to set up your favorites.
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Select "Switch" to change from JSPARROW to CKENNEDY







Proxy User Now Is Delegated User

- JSPARROW is now masquerading as CKENNEDY with all of CKENNEDY roles and responsibilities
- Does not need to know CKENNEDY password
- When done with proxy duties hit "Return to Self"

Navigator	Sparrow is done with proxy duties - he hits "Return to Self"	Preferences Help Personalize Pege- Return to Self Logged In As JSPARROW Proxy For CKENNEDY Favorites Personalize
 @Advanced Supply Chain Planner Advanced Planning Administrator Advanced Planning DRP Planner Advanced Supply Chain Planner Advanced Supply Chain Planner Alert Manager, Vision Enterprises Application Developer Bills of Material Cash Management Manager Cash Management Setup Catalog Administrator, Progress S&L Collections Agent Cost Management Cost Management Cost Management - SLA 	Personalize Isibility.	You have not selected my favorites. Please use the "Personalize" buttor to set up your favorites. Jack Sparrow is now logged in as CKENNEDY
		SOLUTION BEACON, LLC Real Solutions for the Real World*



- Must run the "Page Access Tracking Data Migration" concurrent program to make proxy accesses available to the Proxy Report
- Go to "Manage Proxies" and select "Run Proxy Report"

ORACI	LE.	Close	Window Preferences Personalize Page Diagnostics
User Management	t i se	Chattanach	
Manage Proxies: Manage Proxies > Proxy Report Following are the pages that this proxy accessed User Name Effective From (example: 29-Jan-2008) End			xy ROW sing EDY's vility Q
User Name	Responsibility	Action	Date
JSPARROW	System Administrator	LOGIN	29-Jan-2008 11:06:56
JSPARROW	System Administrator	LOGIN	29-Jan-2008 12:59:23
JSPARROW	System Administrator	LOGOUT	29-Jan-2008 11:08:00
JSPARROW	System Administrator	LOGOUT	29-Jan-2008 13:02:56
JSPARROW	RROW System Administrator		29-Jan-2008 11:07:26
JSPARROW	System Administrator	RESP_CHANGE	29-Jan-2008 12:59:53







Identifying Proxy Users

- Run the following SQL to find those users who have the "Manage Proxies" role assigned to them
- select * from wf_user_role_assignments_v where role_name = 'UMX|UMX_MANAGE_PROXIES' and start_date <= sysdate and (end_date is null OR end_date >= sysdate)
- Important to understand proxy user relationships from a controls perspective







Pervasiveness of UMX in Release 12







Release 12 Role Groups

Role I	nheritance Hierarcl	hy						
Cre	ate Role							
¢								
Focus	Name		Code	Application	Active	Update	Add Node	Remove Node
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 	Territor Territor Release Solution	Territory Management Job Roles Release 12 Core Team						
\$	Groups fro	Solution Beacon Groups from other Source Systems						

- View the seeded role groups by logging into UMX and going to Roles and Role Inheritance
- Expand the role groups to see the underlying E-Business Suite Applications



Release 12 Role Groups

UMX/RBAC Role Groups	E-Business Suite Application Ownership
Training	Learning Management
Miscellaneous	All Responsibilities
Security Administration	UMX/RBAC Security Administration
Information Technology	Integration Repository (IREP)
Territory Management Task Roles	CRM – Territory Management
Territory Management Job Roles	CRM – Territory Management
Groups from other Source Systems	Trading Community Architecture and HR Roles/Positions

- Underlying E-Business Suite Applications
- Doesn't provide the complete picture – need to look at Permission Sets





Release 12 Permission Sets

Complex Maintenance Repair and Overhaul	Internal Controls Manager	Self Service Receivables
Applications BIS	Balanced Scorecard	Cash Management
Incentive Compensation	Depot Repair	Service
Configurator	Document <u>Managment</u> and Collaboration	Enterprise Asset Management
Advanced Product Catalog	Engineering	Financial Intelligence
Application Object Library	Project Portfolio Analysis	Financials Common Modules
Scripting	Collections	Grants Proposal
Customers Online	Inventory	iRecruitment
CRM Foundation	Project Contracts	CRM - Sales Territory Management
Learning Management	Project Intelligence	Purchasing Intelligence
Sourcing	Purchasing	Advanced Pricing
UMX Security Administration	Workflow	Work in Process
Approvals Management Engine (AME)		

select * from apps.fnd_menus a, apps.fnd_menus_tl b where a.type = 'SECURITY' and a.menu_id = b.menu_id order by a.menu_name;



ORACLE CERTIFIED ADVANTAGE



E-Business Suite Application	UMX/RBAC Access
Approvals Management Engine (AME)	All accesses
Workflow	All accesses
UMX Security Administration	All accesses
Cash Management	All accesses
Application Object Library	All accesses
Trading Community Architecture	All accesses

- Applications where all their UMX roles should be examined .
- These roles that can be provisioned within these applications can have high impact across the Release 12 E-Business Suite





SYSADMIN May Be Old....





SYSADMIN Userid

- Upgrades require SYSADMIN to be active (point in time, planned activity)
- The Release 11.0 to Release 11i Category 3 steps require the SYSADMIN user to be active
- The Release 11.0 to Release 12 upgrade path involves upgrading first to 11.5.10.2, which requires the same Category 3 step mentioned above
- In a Portal/SSO environment, SYSADMIN is required as the backup method to perform the administration tasks and troubleshooting if something happens to the Single Sign-on (SSO) infrastructure and it fails to work as designed
- Over 350 specific lines of E-Business Suite Release 12 code reference SYSADMIN (select * from sys.dba_source where text like '%SYSADMIN%';)





SYSADMIN Userid

- The following system level profile options are defaulted to SYSADMIN at implementation:
 - AP: Invoice Approval Workflow User
 - GMI: Workflow Default Item Approver
 - OKC: Change Request Approver
 - OKC: Contract Approver
 - OKL: Credit Analyst
 - OKL: Funding Approver
 - OM: Notification Approver





SYSADMIN Userid

- Unless changed, Oracle Workflow will fail because SYSADMIN is the default workflow administrator and is used to communicate user security events, violations and exceptions (see MetaLink Doc. IDs: 259319.1 and 333656.1)
- Upon implementation, SYSADMIN is the initial and original grantor of UMX Security Administration (point-in-time, planned activity)
- SYSADMIN is the default userid used to startup the concurrent managers. Alternatively, a custom script could be developed to use a different userid that has the associated System Administrator responsibility
- Historically, many patches have required SYSADMIN to be active patch analysis should check for this and, if required, SYSADMIN could be activated (point-in-time, planned activity)







Sensitive Data





Sensitive Data in Production

- Personalizations
- Database roles and privileges
- Direct database restrictions
- Release 12 Payments and Cash Management Masking and Encryption
- Above all else IDENTIFY sensitive data elements
- Know where sensitive data elements come to rest





Sensitive Data in Non-Production

- Additionally for Non-Production Environments....
- Oracle Applications Management Pack includes scrambling as part of clone process
- Obfuscate or destroy sensitive data elements
- Search and destroy package available from http://www.solutionbeacon.com/security
- Above all else IDENTIFY sensitive data elements







Conclusion and Recommendations



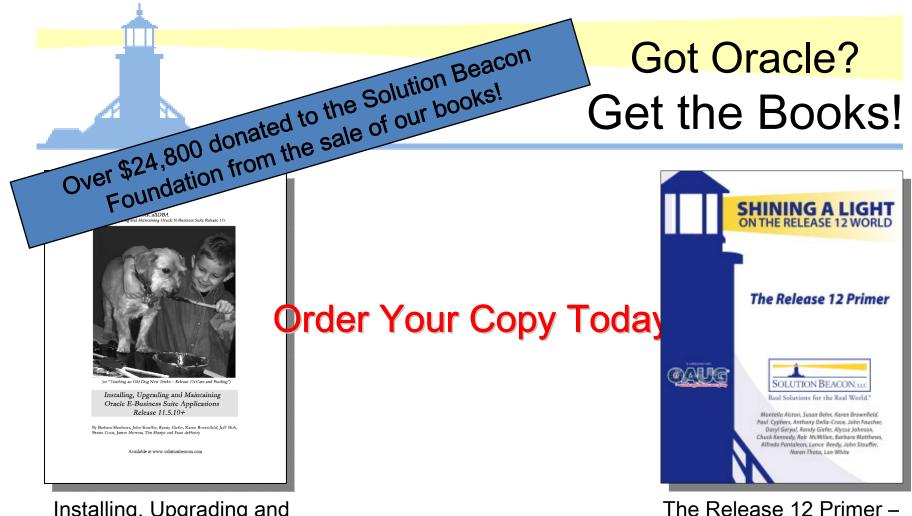


Recommendations

- Check on the UMX roles for the high-impact applications mentioned previously
- Create an alert to notify when SYSADMIN is used
- Change the SYSADMIN password frequently
- Obfuscate your sensitive data in non-production environments
- Check database roles and privileges in production
- Consider restricting direct connections to the database







Installing, Upgrading and Maintaining Oracle E-Business Suite Applications 11.5.10.2+

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Questions and Answers

Thank You!

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