

Enhanced Security Management, Separation of Duties and Audit Support for XA

Belinda Daub, Senior Consultant Technical Services

belinda.daub@cistech.net

704-814-0004

Agenda

Concepts, best practices, and tools to meet common XA security audit requirements:

- Separation of Duties
- User Access Review
- Security Change Management
- Manage Environment Security
- R9 Security Considerations

Meeting Audit Requirements

- Challenges
 - No audit tools in XA to provide audit support so customers must write custom programs
 - Time-consuming and costly to the organization
 - Maintain custom code with new XA releases
 - Need a thorough understanding of CAS and IFM security logic and data base relationships
 - Users performing access reviews need to know:
 - what the application tasks do (there are as more than 8,000 tasks)
 - who are all the users that use these tasks and why do they need them
 - Security request forms are difficult to create and understand
 - Often ineffective - 'just going through the motions'

Enhanced Security - tools to manage your XA security and audit needs

Separation of Duties

Separation of Duties Concepts

- Separate duties so there are at least two people involved over the life of a transaction. Typically, this means no one person can do all of the following:
 - Initiate the transaction
 - Approve the transaction
 - Record the transaction
 - Reconcile balances
 - Handle assets involved in the transaction
 - Review reports

Separation of Duties

- Common SOD Rules
 - Purchase to Pay
 - Order to Cash
 - Personnel/Labor to Payroll
 - Administer security and maintain application data
- How do you define a conflict in XA?
 - A function may be multiple XA Tasks
 - Copy, Create, Maintain can be separate tasks
 - Green Screen vs Power Link tasks
 - thousands of conflict variations

Separation of Duties

- Configure rules in Enhanced Security
 - Configure rules by area or task or a combination of these
 - Any PO Create task can conflict with any AP Invoicing task
 - CAS, IFM and Custom Tasks
 - Manual tasks (bank deposits, handle cash...)
 - Define how violations should be addressed
 - Provide for mitigating or compensating controls if violations cannot be eliminated

ES SOD Management

- Rules and Violations in Enhanced Security

(ES) ES Task Conflicts

File Display Maintain Customize Navigation Help

Area Conflicts only (all records)

ES Task Conflicts

Rule	Description	A/T	Area	Area Desc	Conf ...	Conf Area	Area Desc
AP-SOD-01	Maintain Purchase Orders and Vendor Payments	Area ...	MZU0140403	SOD PUR PO Maintenance	Area ...	MZU0140636	SOD AP Payment Processing
AR-SOD-01	Generate Invoices and Apply Cash	Area ...	MZU0165915	SOD AR Generate Customer Invoices	Area ...	MZU0170145	SOD AR Apply Cash

(ES) ES SOD Violations

File Display Maintain Customize Navigation Help

General (all records)

ES SOD Violations

Rule	Desc	User	Name	Task description	Conf Task description	Res?	Action
AP-SOD-01	Maintain Purchase Orders and Vendor Payments	AMAPICS	AMAPICS	Create Purchase Orders	Work with payable settlement lines	No	
AP-SOD-01	Maintain Purchase Orders and Vendor Payments	BOYERJ	BOYERJ	Create Purchase Orders	Work with payable settlement lines	No	
AP-SOD-01	Maintain Purchase Orders and Vendor Payments	QSECOFR	QSECOFR	Create Purchase Orders	Work with payable settlement lines	No	
AR-SOD-01	Generate Invoices and Apply Cash	AMAPICS	AMAPICS	Review/Select Orders for Amount Invoicing	Enter cash receipts	No	

ES SOD Violation Resolution

KA (ES) Change ES SOD Violations - USER ID: AMAPICS - AMAPICS Rule: AP-SOD...

USER ID: AMAPICS - AMAPICS Rule: AP-SOD-01 - Maintain Purchase Orders and Vendor Payments

Template: [none]

Rule Description: Maintain Purchase Orders and Vendor Payments
Task: POR
Subtask: COPY
Conflicting Task: IFMTRAN
Conflicting Subtask: ESIFM1AP
Resolved Y/N: Yes No
Corrective Action: CTRL
Resolved by: DAUBB
Resolved Date: 11/01/2010
Resolved Time: 11:15:00 AM
Control Document: AP-SOD-01-C
Reference: 101102AMAPICS
Notes:

Auto advance
 Preview before update

Update Bypass Cancel Help

Action to take:

- Revoke authority to task
- Verify Compensating control
- Remove Conflict

Resolution tracking:

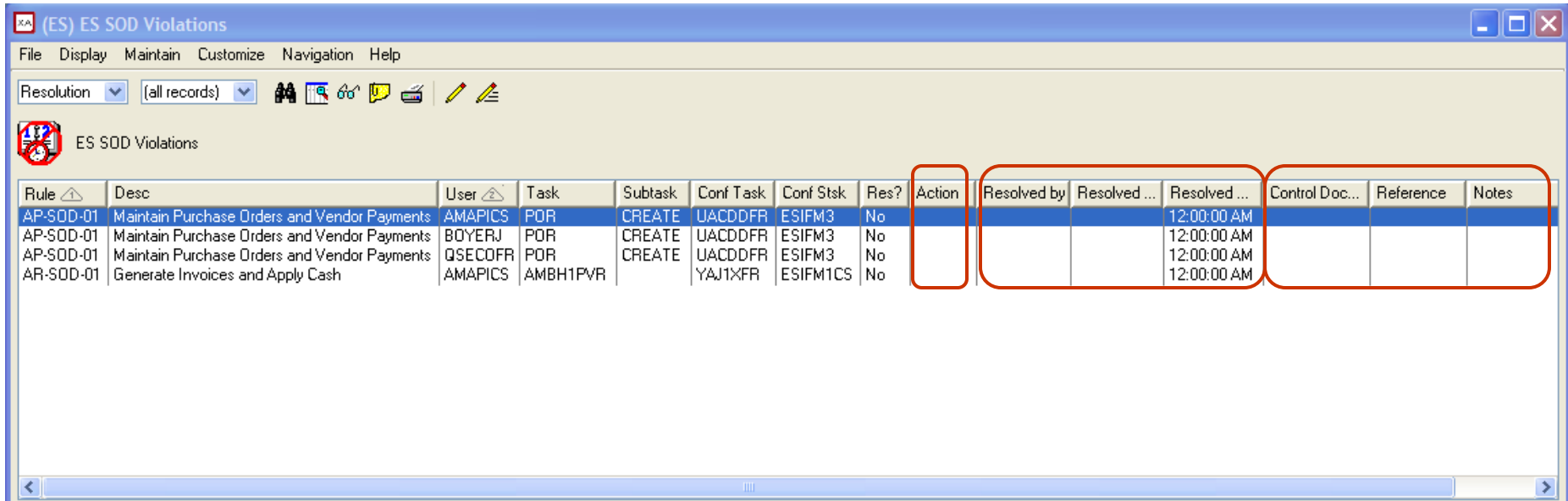
- Resolved by
- Date and Time

Reference Information:

- Control Document Number
- Reference for documentation specific to this violation
- Notes with information pertaining to the resolution or reason the conflict can be removed from the rules

ES SOD Management

- SOD Violations Review and Resolution



The screenshot shows the 'ES SOD Violations' application window. The title bar reads '(ES) ES SOD Violations'. The menu bar includes 'File', 'Display', 'Maintain', 'Customize', 'Navigation', and 'Help'. Below the menu bar is a toolbar with icons for resolution, search, and other functions. The main area displays a table of violations and resolutions. The table has columns for Rule, Desc, User, Task, Subtask, Conf Task, Conf Stsk, Res?, Action, Resolved by, Resolved ..., Resolved ..., Control Doc..., Reference, and Notes. The first row is highlighted in blue. The 'Action' column is circled in red, and the 'Resolved by', 'Resolved ...', and 'Resolved ...' columns are also circled in red.

Rule	Desc	User	Task	Subtask	Conf Task	Conf Stsk	Res?	Action	Resolved by	Resolved ...	Resolved ...	Control Doc...	Reference	Notes
AP-SOD-01	Maintain Purchase Orders and Vendor Payments	AMAPICS	POR	CREATE	UACDDFR	ESIFM3	No				12:00:00 AM			
AP-SOD-01	Maintain Purchase Orders and Vendor Payments	BOYERJ	POR	CREATE	UACDDFR	ESIFM3	No				12:00:00 AM			
AP-SOD-01	Maintain Purchase Orders and Vendor Payments	QSECOFR	POR	CREATE	UACDDFR	ESIFM3	No				12:00:00 AM			
AR-SOD-01	Generate Invoices and Apply Cash	AMAPICS	AMBHTPVR		YAJ1XFR	ESIFM1CS	No				12:00:00 AM			

- Manage resolutions within the application
- Track progress of resolution
- Assign security administrators to carry out resulting security changes
- Export or save review results when complete

SOD Management with ES

- Simplified configuration of task conflicts
 - Template for common rules available as a starting point
- Management and tracking for resolving violations to SOD rules
- Ease of use

Access Reviews

User Access Reviews

- Basic Concepts
 - Ensure that users can only perform those activities necessary to do their assigned roles
 - Data Owners review on a regular basis who has access to view and/or change data in their area
 - Role Owners review on a regular basis who is assigned to job roles under their control
 - All security changes have been made in accordance with internal controls

ES User Access Review

- User Access Review
 - Review individual user access to areas and tasks
 - Owner must know what every user needs and what every task does
 - OK for very small installations with fewer users
- Role Access Review
 - Distribute responsibility for access reviews to those who know the users and those who know the applications
 - Role Owners verify users assigned to their roles and what the roles can do in the application
 - Data Owners verify roles that access application data they own
 - Easier for owners to understand
 - Great for installations with a lot of users in multiple locations

ES Access Review










- Generate and Review User Access to Areas/Tasks


Owner	Area	Area Desc	Stsk	User	User name	Sts	Apprv By	Date	Rsn
BHENRY	MZU0100026	FORECASTING-ADMINISTRATION		BH	Brian	Pending			
BHENRY	MZU0100026	FORECASTING-ADMINISTRATION		LO	LORI	Pending			
BHENRY	MZU0100027	FORECASTING-MAINTENANCE		BH	Brian	Pending			
BHENRY	MZU0100027	FORECASTING-MAINTENANCE		JR	Jeff	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		BH	Brian	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		CV	Carl	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		DC	dat	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		DH	Dale	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		JA	JA	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		JR	Jeff	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		LO	LORI	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		LV	Louis	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		RB	ROB	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		RB	Rob	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		SS	Sonya	Pending			
BHENRY	MZU0100028	FORECASTING-OPERATIONS		VE	SU	Pending			
BHENRY	MZU0100047	PURCHASING-ADMINISTRATION		BH	Brian	Pending			
BHENRY	MZU0100047	PURCHASING-ADMINISTRATION		JC	John	Pending			
BHENRY	MZU0100048	PURCHASING-PERIOD CLOSE		BH	Brian	Pending			
BHENRY	MZU0100048	PURCHASING-PERIOD CLOSE		CV	Carl	Pending			

- Subset by owner
- Approve or reject each user's access to area or task

ES Access Review

- Role Owner approves or rejects user in their roles

General Owner is Current User         

 ES User Role Review

...	Owner name	Role <input type="button" value="v"/>	Desc	User n...	Sts	REVIEW DATE
...	Belinda Daub	FNAP	AP Clerk	Debra ...	Rejected	01/21/2012
...	Belinda Daub	FNAP	AP Clerk	Shirley ...	Approved	01/21/2012
...	Belinda Daub	FNAP	AP Clerk	Erin Be...	Approved	01/21/2012
...	Belinda Daub	FNAP	AP Clerk	Anette ...	Approved	01/21/2012
...	Belinda Daub	FNAP	AP Clerk	Joye H...	Rejected	01/21/2012
...	Belinda Daub	FNAP	AP Clerk	Kristina ...	Approved	01/21/2012
...	Belinda Daub	FNAP	AP Clerk	Jennifer...	Approved	01/21/2012
...	Belinda Daub	FNAP	AP Clerk	Jessica ...	Approved	01/21/2012
...	Belinda Daub	FNAPA	AP Group Lead	Kellie G...	Approved	01/21/2012

ES Access Review

- Data Owners review and approve/reject role access to data in their assigned area

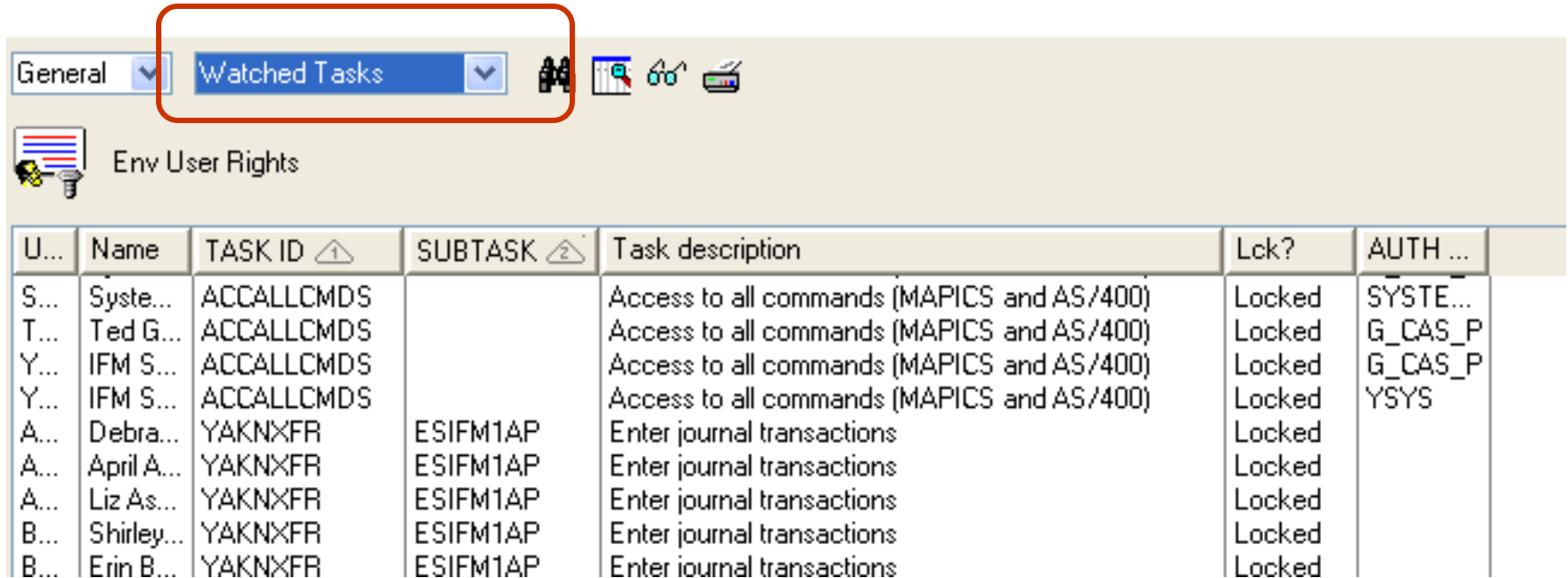
Owner ...	A/T	FUNCTION/TASK	Subt	DESCRIPTION	Role Desc	Sts	REVIEW DATE	REVIEWED BY
qsecofr	Task		EXT0153TXN	Site Order Resolution	IT Admin	pending review		
qsecofr	Task		EXT0153TXN	Site Order Resolution	Master System User	pending review		
qsecofr	Task		EXT0153TXN	Site Order Resolution	Shop Floor Controller	Access Reviewed	07/26/2011	DAUBB
qsecofr	Task	ACCALLCMDS		Access to all commands (Application ...	IT Admin	pending review		
qsecofr	Task	ACCALLCMDS		Access to all commands (Application ...	Master System User	pending review		
qsecofr	Task	ACCMAPCMDS		Access to all Application commands	General Inquiry	pending review		
qsecofr	Task	ACCMAPCMDS		Access to all Application commands	Customer Admin	pending review		
qsecofr	Task	ACCMAPCMDS		Access to all Application commands	Loaner Scheduler	pending review		
qsecofr	Task	ACCMAPCMDS		Access to all Application commands	IT Admin	pending review		
qsecofr	Task	ACCMAPCMDS		Access to all Application commands	Master System User	pending review		
qsecofr	Task	ACCMAPCMDS		Access to all Application commands	Millstone Users	pending review		
qsecofr	Task	ACCMAPICS		Access to this environment	General Inquiry	pending review		
qsecofr	Task	ACCMAPICS		Access to this environment	Customer Admin	pending review		
qsecofr	Task	ACCMAPICS		Access to this environment	Loaner Scheduler	pending review		

ES Access Review

- Review Management performed by Audit Coordinator
 - Monitor status of owner review activities
 - Confirm all rejections have been addressed and security changes completed
 - Export or request review data archival

ES Access Review

- Audit Coordinator has direct inquiry for user rights to ‘watched’ tasks (including custom and IFM tasks)



General | Watched Tasks

Env User Rights

U...	Name	TASK ID ▲	SUBTASK ▲	Task description	Lck?	AUTH ...
S...	Syste...	ACCALLCMDS		Access to all commands (MAPICS and AS/400)	Locked	SYSTE...
T...	Ted G...	ACCALLCMDS		Access to all commands (MAPICS and AS/400)	Locked	G_CAS_P
Y...	IFM S...	ACCALLCMDS		Access to all commands (MAPICS and AS/400)	Locked	G_CAS_P
Y...	IFM S...	ACCALLCMDS		Access to all commands (MAPICS and AS/400)	Locked	YSYS
A...	Debra...	YAKNXFR	ESIFM1AP	Enter journal transactions	Locked	
A...	April A...	YAKNXFR	ESIFM1AP	Enter journal transactions	Locked	
A...	Liz As...	YAKNXFR	ESIFM1AP	Enter journal transactions	Locked	
B...	Shirley...	YAKNXFR	ESIFM1AP	Enter journal transactions	Locked	
B...	Erin B...	YAKNXFR	ESIFM1AP	Enter journal transactions	Locked	

ES Access Reviews

- Simplified using functional task areas
 - Reduce review of 8000 tasks to several hundred
- Management and tracking for access reviews
- Reduce need for IT Resource involvement
- Ease of use

Manage Environment Security

ES Security Management

- Review Unlocked Tasks Workbench
 - Who uses them
 - What XA Area controls the task

General Unlocked

Environment Task

Task ID	Sub task ID	Task description	Applic	Lck?	Owner	Type
AMDM1001		Product Costing-Current	EPDM	Unlocked	MAPICS	MNT
AMDM1002		Product Costing-Standard	EPDM	Unlocked	MAPICS	MNT
AMDM1003		Product Costing-Both	EPDM	Unlocked	MAPICS	MNT
AMDM1004		Simulate Product Cost-Current	EPDM	Unlocked	MAPICS	MNT

(MR) Daily Task Activity - Task: AMDM1001 - Product ...

File Display Maintain Customize User Navigation Help

General *(all records)

Task: AMDM1001 - Product Costing-Current

X...	Date	Time	AS/...	MAPICS MENU	OPTION	Lck?
KUMA...	111026	184,806	KU...	AMDM10	01	Unlocked
LABEL...	111008	110,059	LAB...	AMDM10	01	Unlocked

(MR) Areas containing task - Task: AMDM1001 - ...

File Display Maintain Customize Navigation Help

General *(all records)





Task: AMDM1001 - Product Costing-Current


Security...	Desc	Applic	Lck?	Owner
-------------	------	--------	------	-------

ES Security Management

XA User Status Information

File Display Maintain Customize Navigation Help

General ▼ +(temporary) - Status ▼    

 Environment Users

...	Name	Grp Jobs	U/G	Start Menu	OPID	Status	Last On
A...	Susan...	0	User			*ENABLED	120105
A...	Bruce...	0	User			*DISABLED	100708
A...	James...	0	User	AMIM00		*ENABLED	120119
A...	AGILE...	0	User			*ENABLED	120105
A...	Daniel...	0	User	AMBM20		*ENABLED	
A...	PR Mir...	0	User			*ENABLED	120120
A...	AMAP...	16	User			*ENABLED	090331
A...	...	0	User	AMM10	DA	*ENABLED	111220

ES Security Change Management

- View who made the change and when
- Reconcile to security requests
- Audit for temporary access (granted and revoked)

USER ...	TASK ...	SUB...	ACTION ...	REASON CODE	CHG DATE	CHG TIME	GROUP ID	AREA	CHANGE E
LUTHERD	AMDM4001		Revoked	User revoked to task	11/30/2006	10:27:19 AM			LUTHERD
LUTHERD	AMDM4001		Authorized	User Authorized to task	11/30/2006	10:23:22 AM			LUTHERD
LUTHERD	AMDM4002		Revoked	User revoked to task	11/30/2006	10:27:19 AM			LUTHERD
LUTHERD	AMDM4002		Authorized	User Authorized to task	11/30/2006	10:23:22 AM			LUTHERD
LUTHERD	AMDM4002		Authorized	User added to group	11/29/2006	5:21:41 PM	TESTGROUP		LUTHERD
LUTHERD	AMDM4002		Revoked	User removed from group	11/29/2006	5:21:15 PM	TESTGROUP		LUTHERD
LUTHERD	AMDM4003		Revoked	User revoked to task	11/30/2006	10:27:19 AM			LUTHERD
LUTHERD	AMDM4003		Authorized	User Authorized to task	11/30/2006	10:23:22 AM			LUTHERD

What do users actually use?





- View actual user activity
 - Green Screen Menu options taken
 - Changes to client objects
 - IFM maintenance


The screenshot shows a window titled '(ES) ES User Activity' with a menu bar (File, Display, Maintain, Customize, Navigation, Help) and a toolbar. Below the toolbar is a section labeled 'ES User Activity' containing a table with the following columns: User, Date, Time, Task, Subtask, Task description, XA Job, Menu, Option, and Function. The table lists various user activities, including tasks like 'Change Purchase Orders', 'Print Shipment Label', 'Accept Vendor Proposal', 'Change Manufacturing Orders', 'Copy Purchase Orders', 'Change Scheduled Receipts', 'Create Scheduled Receipts', 'Work With Transactions', 'Work With Users', 'Start Journaling', 'User/Report', 'Work With XA User Profiles', 'Area and task authorizations', 'System Control Data - Field Format', 'Unattached Job Status', and 'Item Availability'.


User	Date	Time	Task	Subtask	Task description	XA Job	Menu	Option	Function
LUTHERD		101,028	POR	CHANGE	Change Purchase Orders				PORCHG
LUTHERD		101,029	SCHRC	EXT8701T...	Print Shipment Label				EXT8701TXN
LUTHERD		101,029	SCHRC	EXT8704T...	Accept Vendor Proposal				EXT8704TXN
LUTHERD		101,101							EXT8710CHG
LUTHERD		101,101	MOR	CHANGE	Change Manufacturing Orders				MORCHG
LUTHERD		101,101	POR	CHANGE	Change Purchase Orders				PORITRCHG
LUTHERD		101,101	POR	COPY	Copy Purchase Orders				PORCPY
LUTHERD		101,101	SCHRC	CHANGE	Change Scheduled Receipts				SCHRCPCHG
LUTHERD		101,101	SCHRC	CREATE	Create Scheduled Receipts				SCHRCPCRT
PLATTNE...	100817	0	MDCUDFR		LSB Work with extract transactions				
PLATTNE...	100818	0	MDCUDFR		LSB Work with extract transactions				
PLATTNE...	100819	0	MDCUDFR		LSB Work with extract transactions				
QSECOFR	100402	0	YAP8DFR		Audit Check Numbers				
QSECOFR	100406	0	AM57XRB						
QSECOFR	100406	0	YABWVFR		Work With Transactions				
QSECOFR	100512	0	UABBPVR						
QSECOFR	100817	0	YAHPDFR		Work With Users				
QSECOFR	110810	171,529	AMZMD002		Start Journaling		AMZMD0	02	
QSECOFR	110810	171,617	AMZMD002		Start Journaling		AMZMD0	02	
QSECOFR	110810	171,937	AMZM3304		User/Report		AMZM33	04	
QSECOFR	110810	171,938	AMZM3304		User/Report		AMZM33	04	
QSECOFR	110810	171,945	AMZM3805		Work With XA User Profiles		AMZM38	05	
QSECOFR	110810	171,946	AMZM3805		Work With XA User Profiles		AMZM38	05	
QSECOFR	110810	171,947	AMZM3801		Area and task authorizations		AMZM38	01	
QSECOFR	110810	171,950	AMZM3801		Area and task authorizations		AMZM38	01	
QSECOFR	110810	171,955	AMZM3009		System Control Data - Field Format		AMZM30	09	
QSECOFR	110810	171,956	AMZM3009		System Control Data - Field Format		AMZM30	09	
QSECOFR	110810	171,958	AMZM3009		System Control Data - Field Format		AMZM30	09	
QSECOFR	110810	172,002	AMZM3012		Unattached Job Status		AMZM30	12	
QSECOFR	110810	172,005	AMZM3012		Unattached Job Status		AMZM30	12	
QSECOFR	110810	172,014	AMIM1005		Item Availability		AMIM10	05	
QSECOFR	110810	172,024	AMIM1005		Item Availability		AMIM10	05	
QSECOFR	110810	172,027	AMIM1004		Open Orders - By Item/Warehouse		AMIM10	04	
QSECOFR	110810	172,030	AMIM1004		Open Orders - By Item/Warehouse		AMIM10	04	
QSECOFR	110810	172,034	AMIM1004		Open Orders - By Item/Warehouse		AMIM10	04	
QSECOFR	110810	172,036	AMIM1004		Open Orders - By Item/Warehouse		AMIM10	04	
QSECOFR	110810	172,041	AMIM1010		Item Detail - By Location		AMIM10	10	
QSECOFR	110810	172,046	AMIM1010		Item Detail - By Location		AMIM10	10	

Security Management

iSeries User Profiles – Power Users

Special Authority Info Power Users    


 ES iSeries Profile Information


U... 	Limit?	Special authorities
DEVI...	*YES	*JOBCTL
DEXT...	*YES	*JOBCTL
DIMIE...	*YES	*SPLCTL
DMIL...	*NO	*ALLOBJ *JOBCTL *SAVSYS *SERVICE *SPLCTL
DOS...	*YES	*JOBCTL
DPIG...	*NO	*JOBCTL

Security Management

iSeries User Profiles – Login Information

Login Statistics Active Users

 ES iSeries Profile Information

U... 	Last on	Time	Failed attempts	Status
BUTL...	120105	152834	0	*ENABLED
CABA...	120116	143237	0	*ENABLED
CABA...	120105	154322	0	*ENABLED
CALA...	120120	100016	0	*ENABLED
CALL...			0	*ENABLED
CAPO...	101109	162244	1	*ENABLED
CARD...	120111	101000	0	*ENABLED

Security Management

- Object Authorities – view and print
 - User rights to objects
 - XA objects not owned by AMAPICS

(X6) iSeries Object Authorities

File Display Customize Navigation Help

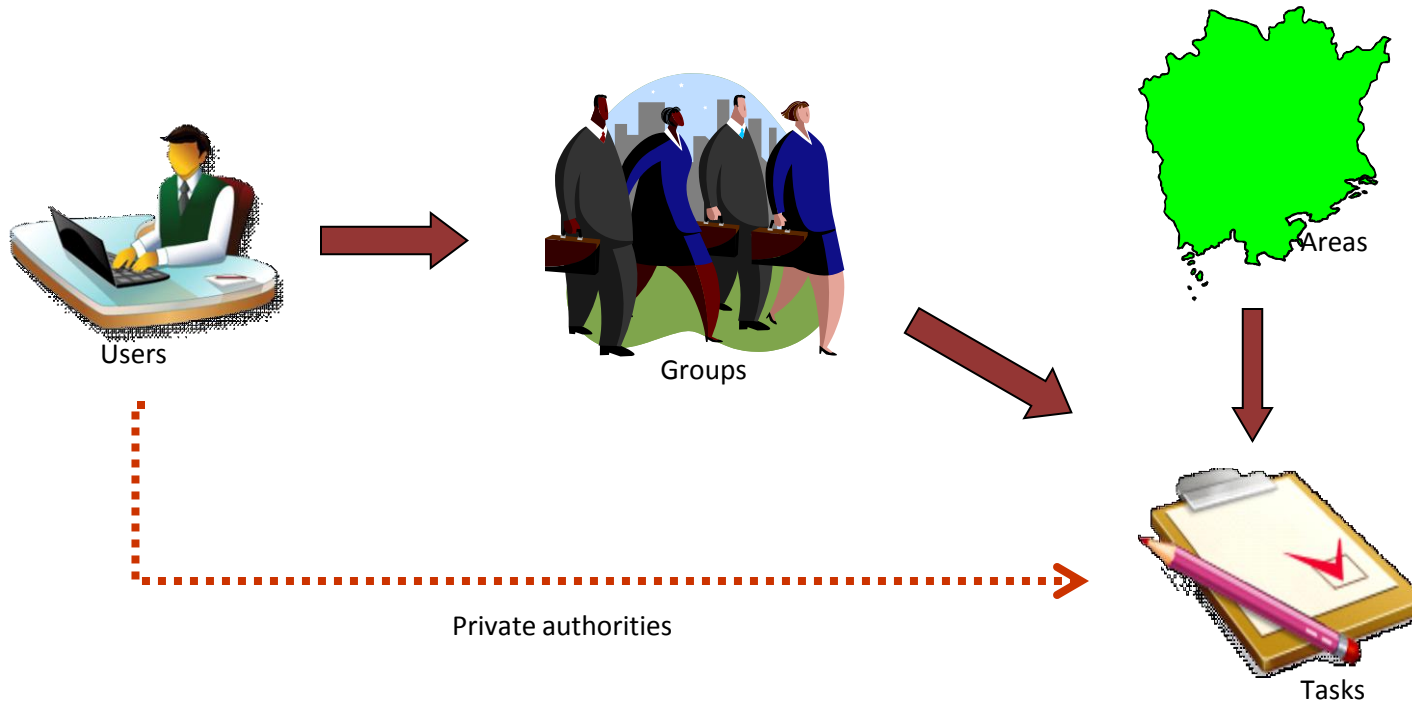
General *Owned by

iSeries Object Authorities

Object name	Library	Obj Type	User	AUTHORITY	READ	ADD	DEL	UPD	EXEC	OPER	MGM	REF	ALTER	Group	PRI GRP	Owner	AUTLST SEC
YAHQDFR	MXAMOD	*PGM	*PUBLIC	*EXCLUDE											*NONE	BOYERJ	*NONE
YAHQDFR	MXAMOD	*PGM	AMAPICS	*ALL	X	X	X	X	X	X	X	X	X		*NONE	BOYERJ	*NONE
YAHQDFR	MXAMOD	*PGM	BOYERJ	*ALL	X	X	X	X	X	X	X	X	X		*NONE	BOYERJ	*NONE
ARISS	MXAMOD	*QRYDFN	*PUBLIC	*CHANGE	X	X	X	X	X						*NONE	BOYERJ	*NONE
ARISS	MXAMOD	*QRYDFN	BOYERJ	*ALL	X	X	X	X	X			X	X		*NONE	BOYERJ	*NONE
CHECKS	MXAMOD	*QRYDFN	*PUBLIC	*CHANGE	X	X	X	X	X						*NONE	BOYERJ	*NONE
CHECKS	MXAMOD	*QRYDFN	BOYERJ	*ALL	X	X	X	X	X		X	X	X		*NONE	BOYERJ	*NONE
CSTDIF	MXAMOD	*QRYDFN	*PUBLIC	*CHANGE	X	X	X	X	X						*NONE	BOYERJ	*NONE
CSTDIF	MXAMOD	*QRYDFN	BOYERJ	*ALL	X	X	X	X	X		X	X	X		*NONE	BOYERJ	*NONE
ENTTOTBAL	MXAMOD	*QRYDFN	*PUBLIC	*CHANGE	X	X	X	X	X						*NONE	BOYERJ	*NONE
ENTTOTBAL	MXAMOD	*QRYDFN	BOYERJ	*ALL	X	X	X	X	X		X	X	X		*NONE	BOYERJ	*NONE
FINDERROR	MXAMOD	*QRYDFN	*PUBLIC	*CHANGE	X	X	X	X	X						*NONE	BOYERJ	*NONE
FINDERROR	MXAMOD	*QRYDFN	BOYERJ	*ALL	X	X	X	X	X		X	X	X		*NONE	BOYERJ	*NONE
FXFEB	MXAMOD	*QRYDFN	*PUBLIC	*CHANGE	X	X	X	X	X						*NONE	BOYERJ	*NONE
FXFEB	MXAMOD	*QRYDFN	BOYERJ	*ALL	X	X	X	X	X		X	X	X		*NONE	BOYERJ	*NONE
GLSUMEXT	MXAMOD	*FILE	*PUBLIC	*CHANGE	X	X	X	X	X						*NONE	BOYERJ	*NONE

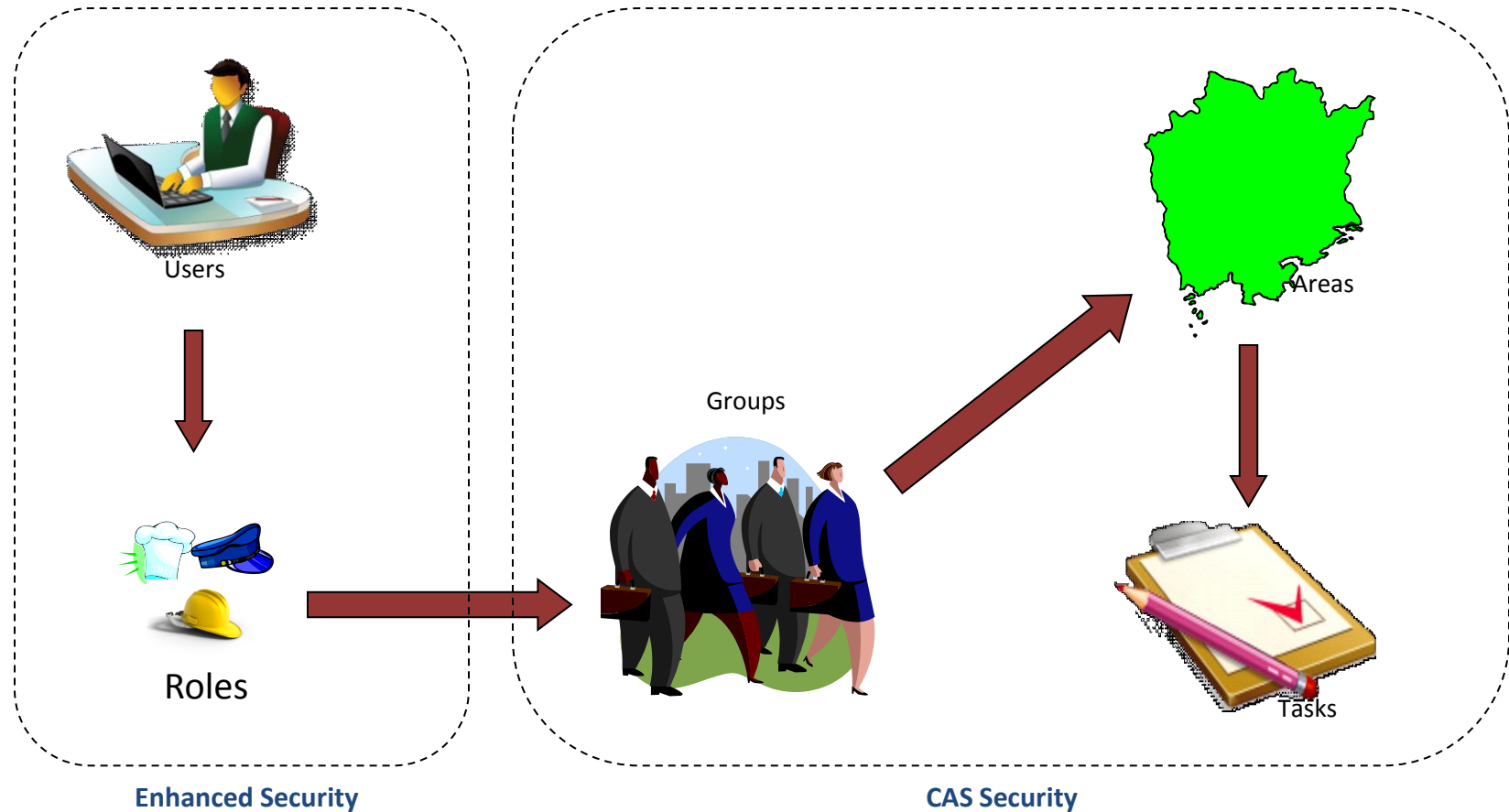
CAS Security

- Roles don't really exist



Job Roles

- Additional layer for configuring authority



Job Roles

Security Requests and approvals – example

- Simple to understand and use
- Group by business area and owner

XA/MAPICS User Security request (check all roles required for the user and obtain noted signatures for each)

<p>General XA</p> <p><input type="checkbox"/> General Inquiry</p> <p><input type="checkbox"/> Requisitions</p> <p>Jane Owner <input type="text"/></p>	<p>Materials Management</p> <p><input type="checkbox"/> Receiving Clerk</p> <p><input type="checkbox"/> Materials Clerk</p> <p><input type="checkbox"/> Cycle Count Clerk</p> <p><input type="checkbox"/> Materials Admin</p> <p>Mary Owner <input type="text"/></p>
<p>Corporate</p> <p><input type="checkbox"/> Subject Matter Expert</p> <p>John Owner <input type="text"/></p>	<p>Quality Assurance</p> <p><input type="checkbox"/> Quality Clerk</p> <p><input type="checkbox"/> Inspector</p> <p>David Owner <input type="text"/></p>
<p>Shop Floor Operations</p> <p><input type="checkbox"/> Shop Floor Base</p> <p><input type="checkbox"/> Shop Floor Expanded</p> <p>Jim Owner <input type="text"/></p>	

Job Roles

Simplified User Role Maintenance

- PowerLink workbench
- Roles match form
- Add or remove user roles

Add a user to a role

The screenshot displays two windows from the PowerLink workbench. The left window, titled 'Environment Users', shows a list of users. The right window, titled 'Userid: ARNOLDBY - Bradley Arnold', shows a table of job roles. A blue arrow points to the 'Add User' icon in the right window's toolbar.

Userid	Name
ARAY	Annette Ray
ARCHERMA	Mandy Archer
AREED	Andy Reed
ARJAN	Arijan Van Den Hil
ARNDELLAM	Adam Arndell
ARNOLDBY	Bradley Arnold
ARNOLDNN	Nathan Arnold
ARTHURBA	Barbara Arthur
ARWARREN	Amber Warren
ASCOTT	Andy Scott
ASMITH	Aaron Smith

JOB ROLE	Desc	STATUS
COGEN	General Inquiry	Active
COREQ	Requisition	Active
MPENG	MFG-PRC Engineer	Active

Job Roles

- View role information – see what a role can do

The screenshot displays two overlapping SAP MM windows. The background window, titled '(MM) ES User Data', shows a list of users and their job roles. The foreground window, titled '(MM) Group Authority to Tasks - JOB ROLE: CSR', shows the tasks assigned to the 'CSR' job role within the 'GRCBASE' group. Two red arrows point from the 'GRCBASE' group in the foreground window to the 'JOB ROLE: CSR' entry in the background window, and from the 'JOB ROLE: CSR' entry in the background window to the task list in the foreground window.

ER ID	JOB ROLE	Desc
EZLEYS	MMCLK	Materials Clerk
ACKETT	COREQ	Requisition
AMMAN	COREQ	Requisition
ARRISON	MMCLK	Materials Clerk
ARTMAN	COREQ	Requisition
ISEY	COREQ	Requisition
DOLLOWAY	CSR	CSR
DHNSON	COREQ	Requisition
IBBE	COREQ	Requisition
CCULL	COREQ	Requisition
CDONALD	COREQ	Requisition
RCS	COREQ	Requisition
MIAMEN	COREQ	Requisition

Name	Task ID	Sub task ID	Task description	Lck?
Customer Servi...	AMBAAPVR		Customer Item Number Cross-Reference	Locked
Customer Servi...	AMBAFDFR		Shipping Calendar	Locked
Customer Servi...	AMBA4DFR		Hold Codes	Locked
Customer Servi...	AMBBEPFR		Salesrep Master List	Locked
Customer Servi...	AMBC9PVR		Open Orders/Back Orders by Item	Locked
Customer Servi...	AMBD8PVR		Open Orders/Back Orders by Customer	Locked
Customer Servi...	AMBDJPVR		Open Orders/Back Orders by Request Date	Locked
Customer Servi...	AMBDLPVR		Blanket Item Status	Locked
Customer Servi...	AMBDRDFR		Item Substitutes	Locked
Customer Servi...	AMBD1DFR		Kit Components	Locked
Customer Servi...	AMBD7DFR		Item Comments	Locked
Customer Servi...	AMBEFPVR		Daily Recap	Locked
Customer Servi...	AMBEODFR		Maintain Data Defaults	Locked
Customer Servi...	AMBFKPVR		Order Shortage	Locked
Customer Servi...	AMBFMPVR		Staging Location Return to Stock	Locked
Customer Servi...	AMBFOPVR		Maintenance Log	Locked
Customer Servi...	AMBFPPVR		Standing Orders	Locked
Customer Servi...	AMBFRPVR		Period to Date Backlog/Shipments	Locked
Customer Servi...	AMBF9PVR		Quote Status	Locked
Customer Servi...	AMBGZDFR		Orders	Locked
Customer Servi...	AMBG8PVR		Comments	Locked

R9 Security Considerations

XA R9 Security Considerations

- New IFM Tasks controlled in CAS
- IDF Level 1
 - Green Screen menus moving to Power Link
 - Menu tasks have been duplicated
 - You rebuild your custom menus according to IDF Level 1 requirements
 - You must lock and authorize users to several thousand new tasks
 - You can choose to continue using Green Screen (initial R9 release only)

ES R9 Security Migration Tools

- ES Security Migration
 - Configure security map using template
 - Perform your data migration
 - Run ES Security Migration to add security for new tasks the same as they are in the current environment
 - User authority
 - Area/Task assignment
 - Lock Status
 - New IDF L1 Custom Menus (for re-migration)

Thank you!

Questions?