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

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Agenda

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

- Separation of Duties
- Access Reviews
- ES Version 5
- R9 Security Considerations



Separation of Duties



Separation of Duties Concepts

- Separate duties so that no single person has control over the life of a transaction.
 - Initiate > Approve > Record > Reconcile > Audit
- To minimize risk, you must break the cycle
 - The greater the risk, the more it should be broken
- Common transaction cycles to audit
 - Purchase to Pay
 - Order to Cash
 - Personnel/Labor to Payroll
 - Administer system and maintain application data



Separation of Duties

- What if you can't eliminate a conflict Organization does not have sufficient personnel to separate responsibilities
 - Enforce controls to track activity and prove there is no abuse
- Your security was set up so that conflicts do not exist
 - How do you know that violations are not being created with ongoing security changes?
- How do you manage and report manual tasks involved in conflicts?
 - Monitor and report manually, OR
 - Track and report using CAS 'dummy' tasks

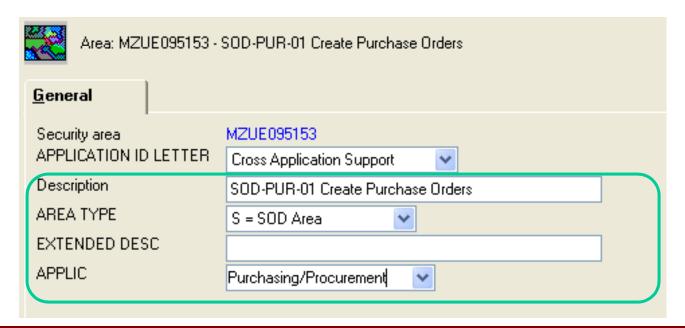


Separation of Duties

- Configure rules in Enhanced Security
 - Two conflicting functions
 - 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

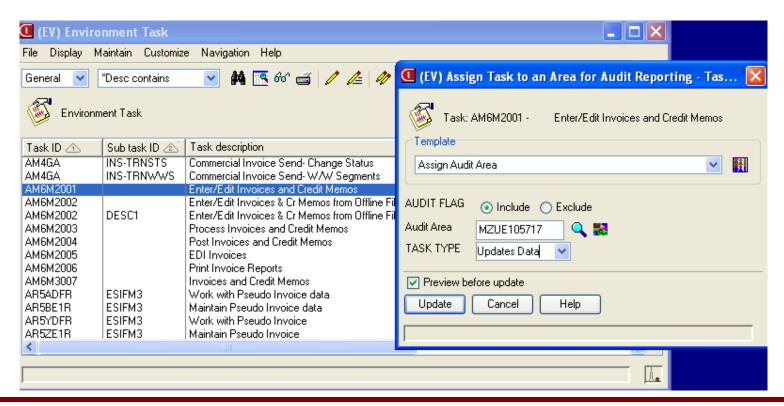


- Create an SOD Area
 - SOD Areas represent a particular function
 - Maintain Purchase Orders, Create Vendors, Enter AP Invoices
 - New Fields to define and manage Functional Areas
 - Type
 - Extended Description
 - Actual Application involved
 - User Fields



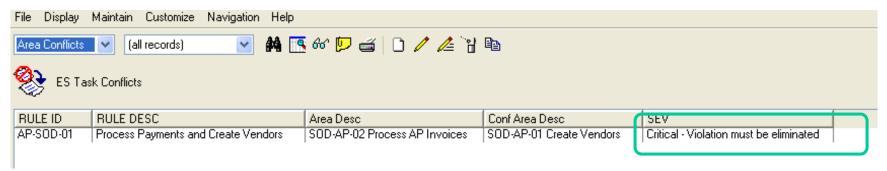


- Link Area to all tasks that are part of that function
 - Green screen
 - IFM
 - Power Link (create/copy/change/delete/maintain/mass maint)
 - Custom tasks





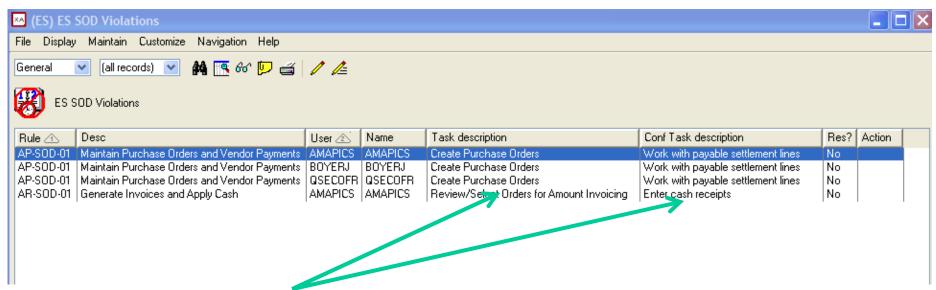
- Define your SOD Conflict Rules
 - By Area or Task or combination



- Specify Severity
 - Critical must be eliminated
 - Normal requires mitigating control
- Attach documents
 - Separation of Duties Definition
 - Mitigating Control Details and Forms



Periodically check to ensure you remain compliant



Individual tasks are shown for your convenience

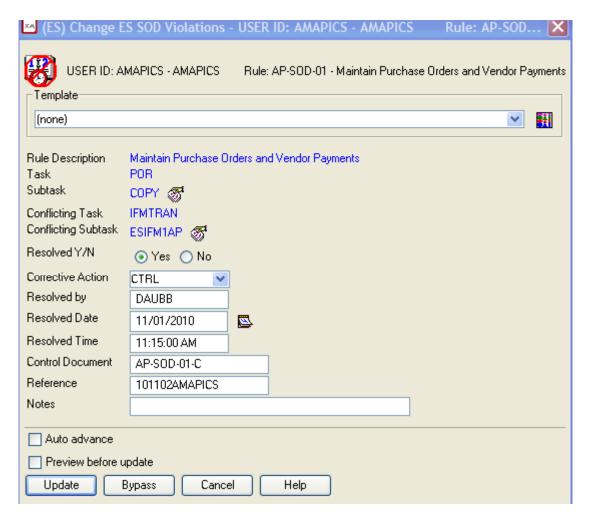


Separation of Duties

- Managing and Resolving SOD Violations
 - Critical Must be eliminated
 - Revoke authority to one or both tasks involved
 - Normal Requires compensating control
 - Journaling
 - Detailed Transaction Review/Audit
 - · Specific to the task involved
 - Thorough documentation
 - Track assignment/completion for security changes
 - Document change request or ticket information for reference



ES SOD Violation Resolution



Action to take:

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

Resolution tracking:

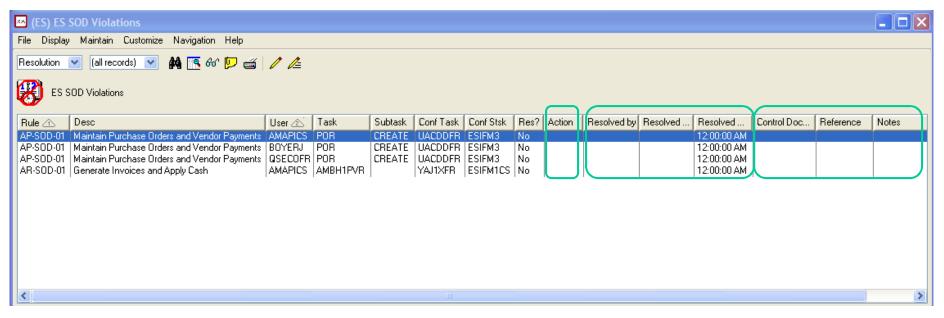
- Resolved by
- Date and Time

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



SOD Violations Review and Resolution



- 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



Access Reviews



Access Review Concepts

- Insure users can perform only those tasks necessary for their assigned roles
- Insure data can be modified by only those who should have this authority
- Promote long-term integrity of security according to your defined policies
- Monitor access to high-risk tasks
- Confirm that all security changes have been made in accordance with internal controls



- Two methods
 - Individual User Access
 - Role Access
- Security Review Coordinator
 - Schedule and facilitate review activities
 - Owner education and support
 - Generate review data and monitor progress
 - Coordinate and verify resolution activities



ES User Access Review

- Maintain Data Owners
 - This is done by functional area (group of tasks representing a particular set of data)
 - Use XA Areas or define your own for better organization

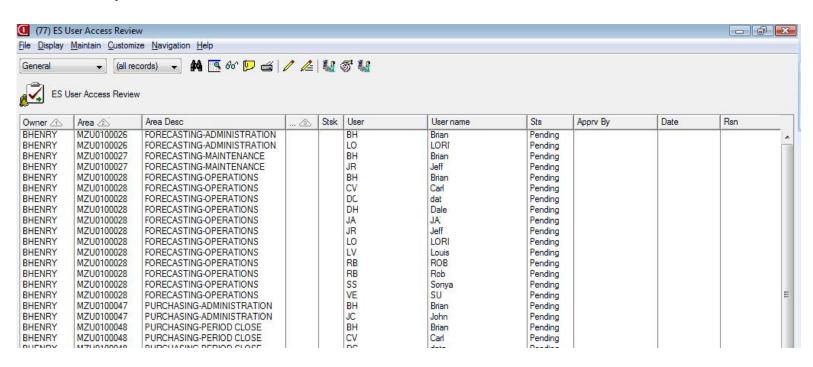
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- Include or exclude an area in the review process
- Include Task details or just review at the area level
- Include/Exclude Unlocked Tasks in Area
- Owner Approver (owner cannot approve their own authority)



ES User Access Review

- Review Coordinator:
 - Generates User Access Data
 - Can view all owner records
 - Monitors progress (subset Pending status)
 - Coordinate Security Changes (subset Rejected status)
 - Request Archive of review data

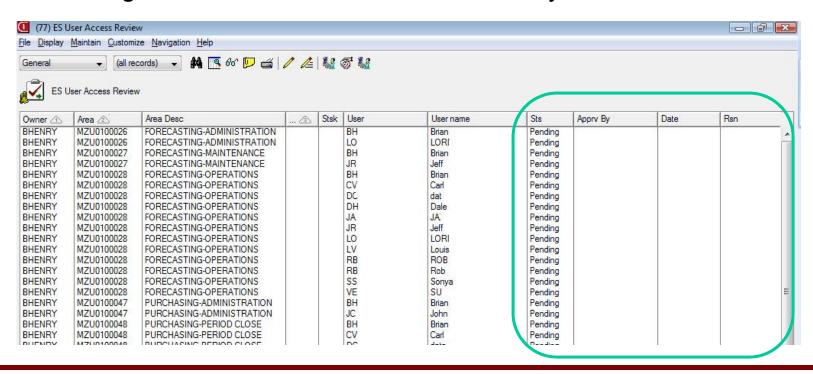




ES User Access Review

Data Owners

- Only have access to the records they must review
- Approve or reject access including reason for rejection
 - · Fields provided for assignment and tracking of rejected access
- List grows shorter and is blank when they are done

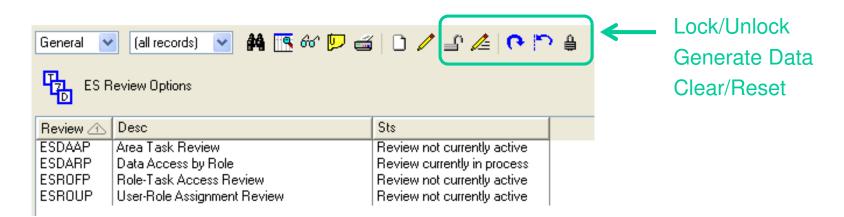




- Access Review for Role-Based Environments
 - Distribute responsibility for access reviews to
 - Role Owners verify users assigned to the correct roles and what the roles can do in the application
 - Data Owners verify role access to application data in their area of responsibility
 - More manageable and easier to understand
 - Great for installations with a lot of users in multiple locations

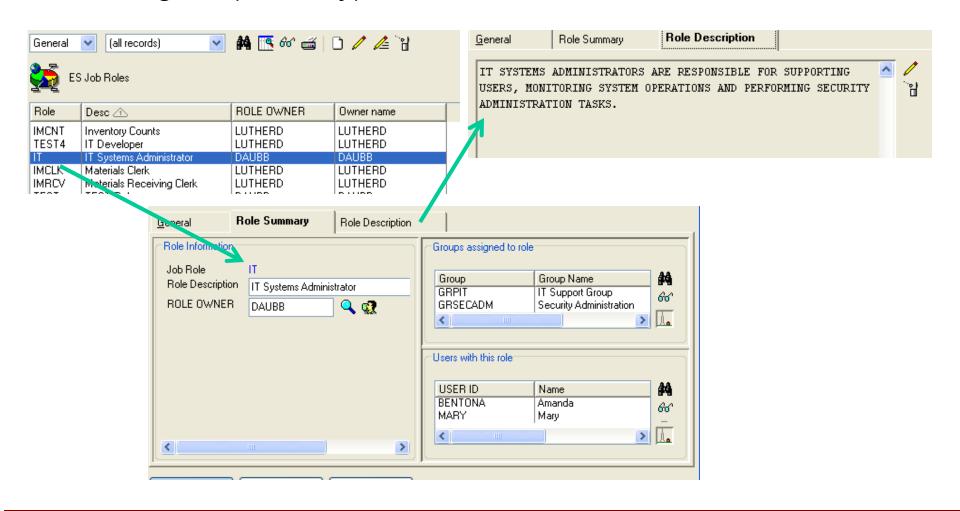


- Review Coordinator will
 - Verify that Job Roles and Functional Areas (data) are assigned to correct individuals
 - Generate Role Review data
 - Monitor progress (subset Pending status)
 - Coordinate Role Changes (subset Rejected status)
 - Request Archive of review data



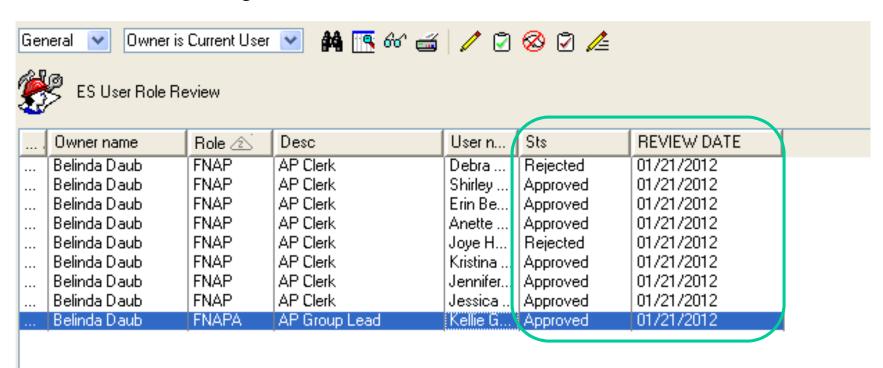


Configure (or verify) Role Owners



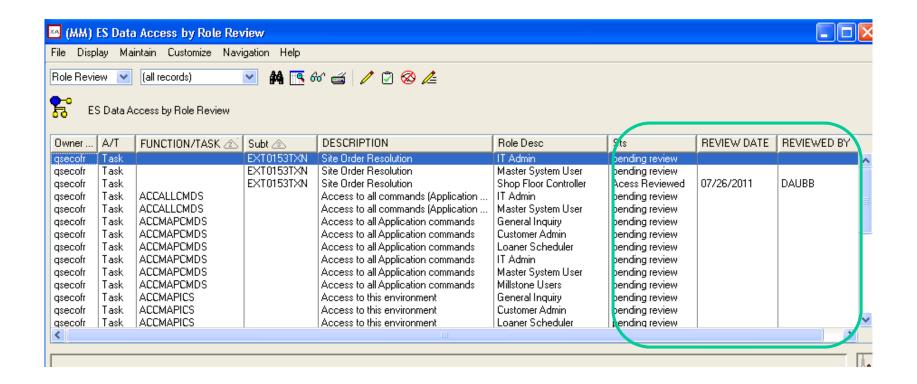


- Role Owners review
 - users assigned to each role they own
 - Single update using tools in toolbar
 - Mass Change





- Role Owners also review
 - Tasks or functional areas authorized to each role



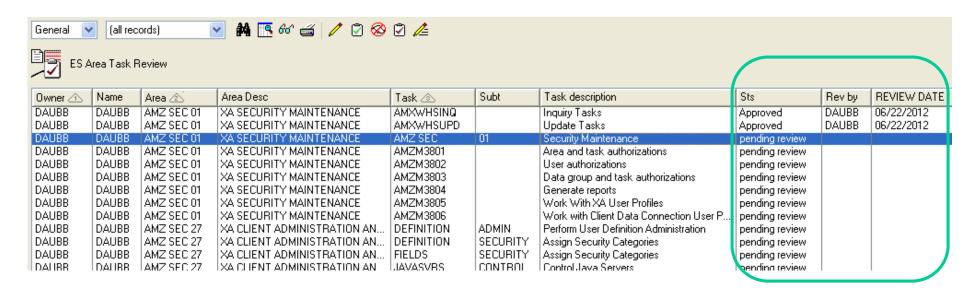


- Data Owners review
 - Role access to data
 - Same process as User Access Review, but by Role rather than User
 - Review at the task level or by functional area
 - Sorted by Task or Area but can sort other ways
 - List grows shorter as records are processed
 - Rejected access can be assigned to administrators and tracked

Data Owner 🛆	Name	A/T	FUNCTION/TASK 🛆	Subt 🕸	DESCRIPTION	ROLE ID	Role Desc	Sts	REVIEW DATE	REVIEWED BY
DAUBB	DAUBB	Task	AMZ SEC	01	Security Maintenance	IT	IT			
DAUBB	DAUBB	Task	AMZM3801		Area and task authorizations	APCLK	AP Clerk			
DAUBB	DAUBB	Task	AMZM3801		Area and task authorizations	IT	IT			
DAUBB	DAUBB	Task	AMZM3801		Area and task authorizations	TEST	TEST Role			
DAUBB	DAUBB	Task	AMZM3802		User authorizations	IT	IT			
DAUBB	DAUBB	Task	AMZM3803		Data group and task authorizations	IT	IT			
DAUBB	DAUBB	Task	AMZM3805		Work With XA User Profiles	IT	IT			
LUTHERD	LUTH	Area	AMZ SEC 04		Access to this environment	APCLK	AP Clerk			
LUTHERD	LUTH	Area	AMZ SEC 04		Access to this environment	IT	IT			
LUTHERD	LUTH	Area	AMZ SEC 04		Access to this environment	TEST	TEST Role	V		

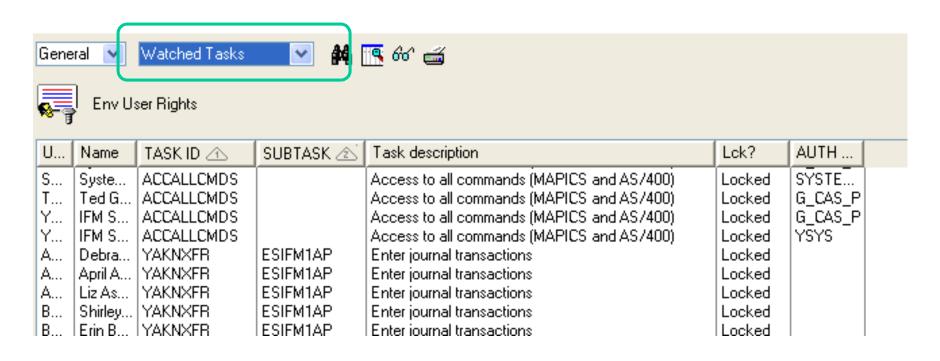


- Data Owners also review
 - Tasks that are defined as a functional area
 - Approve all tasks represent the same data (Purchase Order, Inventory...)
 - Reject area includes tasks that are not part of the area
 - These should be moved to another area OR
 - Data access for the functional area should be reviewed at the task level



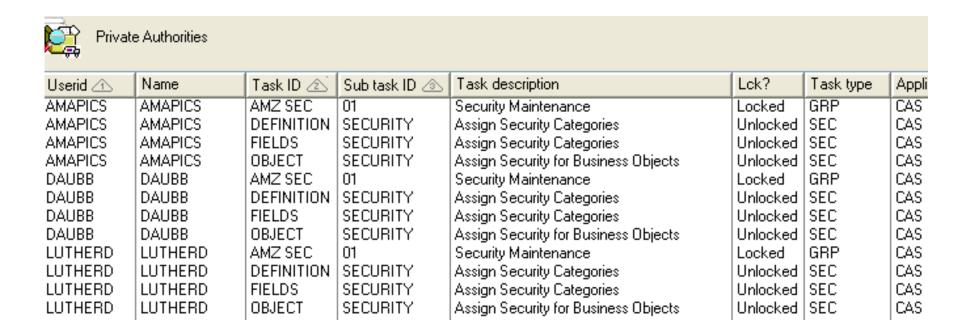


- Review Coordinator can also provide auditors information regarding access to high-risk tasks when requested
 - Watched Tasks
 - Subsets tailored to your needs
 - On demand
 - No need for custom code or IT resource involvement



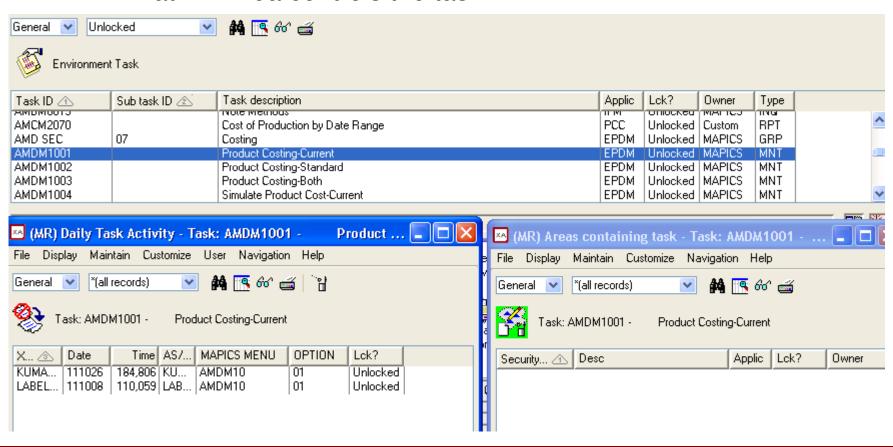


- Review Private Authority
 - Exclude system and generic ids using subsets



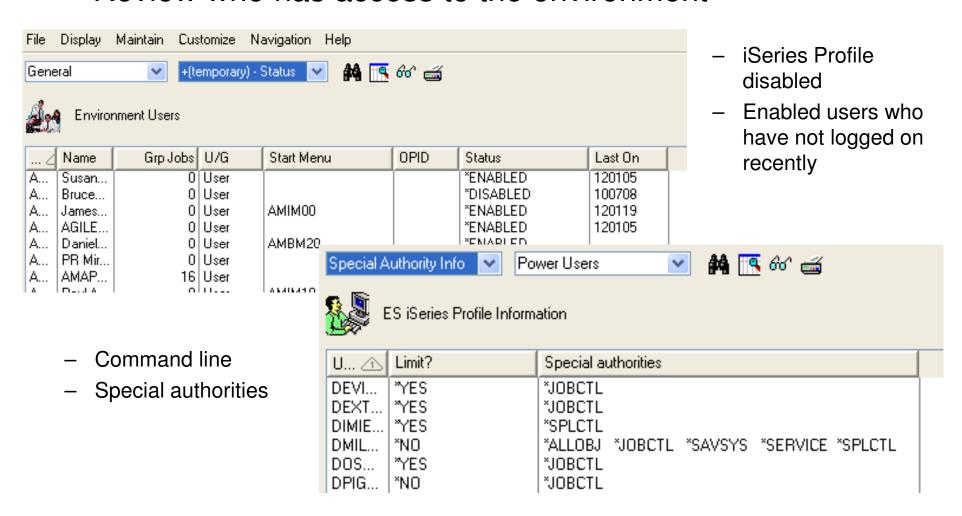


- Review Unlocked Tasks Workbench
 - Who uses them
 - What XA Area controls the task



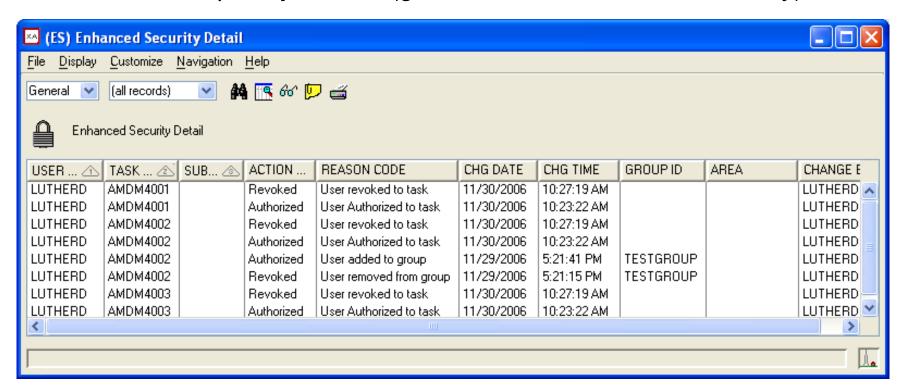


Review who has access to the environment



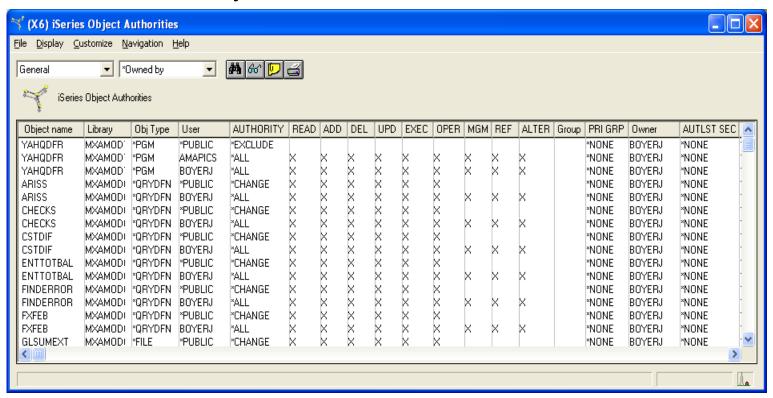


- Review changes made to XA Security
 - Who made the change and when
 - Reconcile to security requests
 - Audit temporary access (granted and revoked in same day)





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





Enhanced Security

Version 5

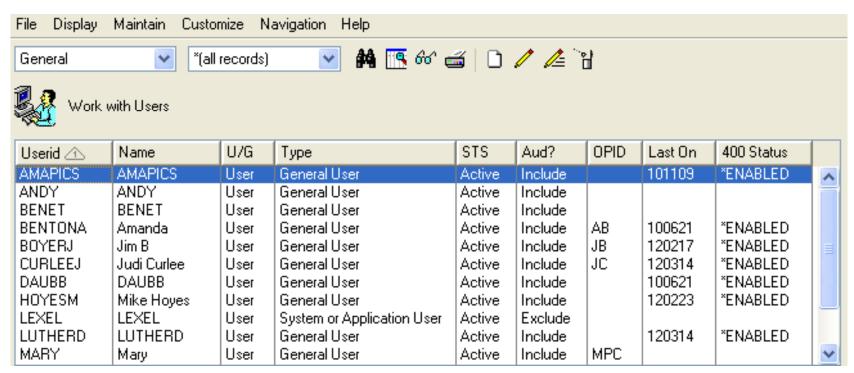
sneak peek



- Security Configuration Maintenance
 - Maintain Users and Groups
 - Lock/Unlock tasks
 - Freedom from hunting for tasks in application areas
 - Authorize Users and Groups to Tasks
 - Create Job Roles and Assign Users
 - Organize Tasks in to Areas for streamlining reviews and audits
 - · SOD Violations Management
 - Data Owner Review of User Access
- Improvements in presentation and ease-of-use
 - Workspaces
 - Combo cards
 - User Exits (no more triggers)



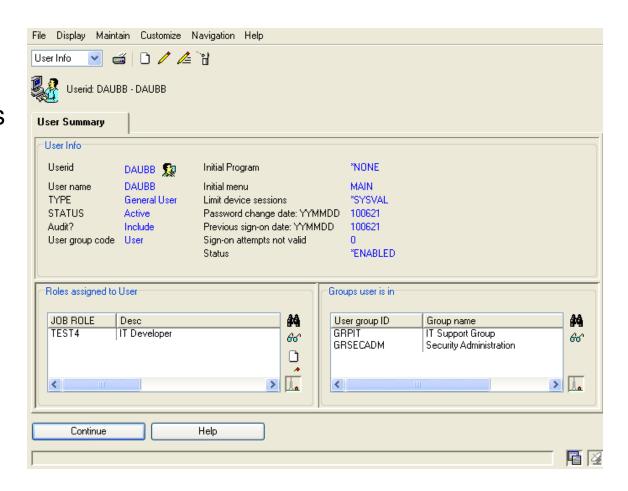
- Work with Users
 - Add or delete users
 - Assign type of user (with subset capabilities)
 - Indicate whether to include in audits (omit system ids)
 - View system information for user (status/last on)



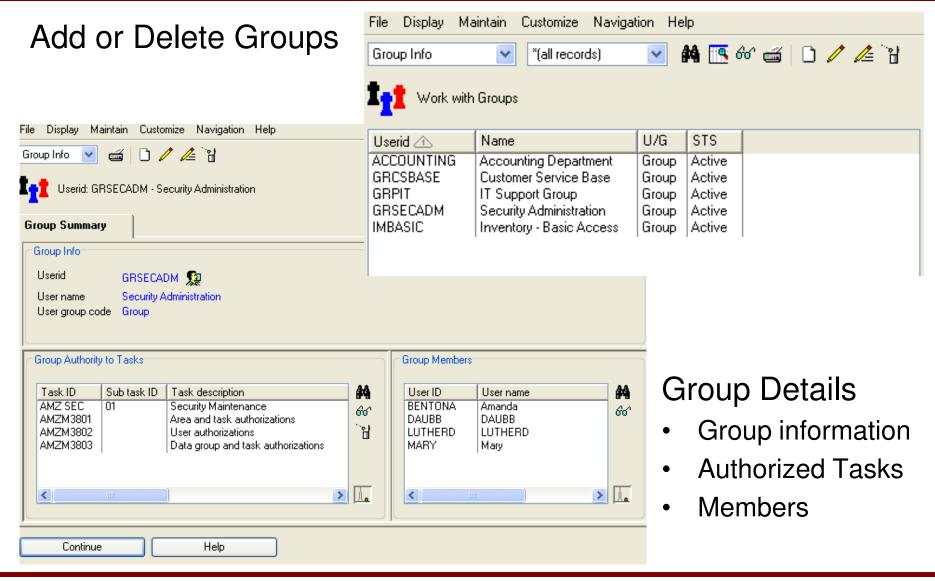


User Details

- User information
- Assigned Roles
- Assigned Groups





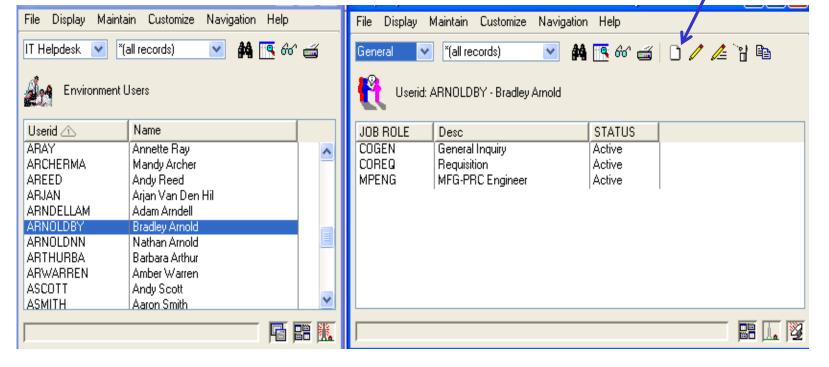




Enhanced Security

Simplified User Role Maintenance







General

Task Description

ADD NEW BANK RECORDS IN POWERLINK

Task Maintenance

- Lock/Unlock
- Authorize users to tasks
- Assign task to Area



Additional fields

- Audit options
- Type of Task
- Flag tasks to be left unlocked
- Text Description





- At R7.8 Infor began moving IFM tasks to PowerLink
 - Secured using CAS Security
 - You must lock and authorize appropriate personnel
 - Corresponding green-screen tasks are still secured by IFM
- If you configure security in your test environment during R9 implementation, you need to plan for replicating this after each test migration and at go-live
- Your auditors will want supporting documentation for any security changes made



- IDF Level 1 considerations
 - IFM
 - Access to tasks is still controlled by IFM Security
 - Lock these if you want to turn off some or all of these tasks (roll them out as users are trained...)
 - Other Applications
 - IDF L1 tasks control access to the application functions
 - Lock these and authorize users as appropriate



- R9 Migration Assistance
 - CISTECH Migration Pack includes a free assessment
 - Analysis of your security configuration and recommendations
 - Extract list of new R9 tasks you will need to secure
 - Recommendations for managing your R9 Security Migration tasks
 - CISTECH R9 Security Migration Assistance includes tools and services during your migration to the new release
 - Assistance with planning your R9 Security migration
 - Customize template map to your applications
 - Programmatically set authority to new R9 tasks the same as equivalent tasks in IFM or green screen
 - Fine-tune during training/testing
 - Run after each XA re-migration and after live migration



Enhanced Security at XAR9

- For existing ES Installations
 - R9 compatibility requires upgrade to ES V5.0
 - General availability in mid-July 2012
 - Plan ahead
 - Contact productsupport@cistech.net for requesting R9 migration information



Thank you!

Questions?

