

User Guide

NetIQ® Security Solutions for iSeries - PSAudit™

September 22, 2008



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About This Book and the Library

The user guide provides conceptual information about the NetIQ Security Solutions for iSeries - PSAudit product (PSAudit). This book defines terminology and various related concepts.

Intended Audience

This book provides information for individuals responsible for understanding PSAudit for iSeries concepts.

Other Information in the Library

The library provides the following information resources:

Trial Guide

Provides general information about the product and guides you through the trial and evaluation process.

Installation Guide

Provides detailed planning and installation information.

User Guides

Provide conceptual information about the NetIQ Security Solutions for iSeries product. These books also provide an overview of the user interfaces and the Help. The following user guides are available:

- NetIQ Security Solutions for iSeries - PSSecure
- NetIQ Security Solutions for iSeries - Remote Request Management
- NetIQ Security Solutions for iSeries - PSDetect
- NetIQ Security Solutions for iSeries - PSPasswordManager
- NetIQ Security Solutions for iSeries - Privilege Manager

Help

Provides definitions for each field and each window.

Conventions

The library uses consistent conventions to help you identify items throughout the documentation. The following table summarizes these conventions.

| Convention | Use |
|--|---|
| Bold | <ul style="list-style-type: none">• Window and menu items• Technical terms, when introduced |
| <i>Italics</i> | <ul style="list-style-type: none">• Book and CD-ROM titles• Variable names and values• Emphasized words |
| Fixed Font | <ul style="list-style-type: none">• File and folder names• Commands and code examples• Text you must type• Text (output) displayed in the command-line interface |
| Brackets, such as <code>[value]</code> | <ul style="list-style-type: none">• Optional parameters of a command |
| Braces, such as <code>{value}</code> | <ul style="list-style-type: none">• Required parameters of a command |
| Logical OR, such as <code>value1 value2</code> | <ul style="list-style-type: none">• Exclusive parameters. Choose one parameter. |

About NetIQ Corporation

NetIQ Corporation, an Attachmate business, is a leading provider of comprehensive systems and security management solutions that help enterprises maximize IT service delivery and efficiency. With more than 12,000 customers worldwide, NetIQ solutions yield measurable business value and results that dynamic organizations demand. Best-of-breed solutions from NetIQ Corporation help IT organizations deliver critical business services, mitigate operational risk, and document policy compliance. The company's portfolio of award-winning management solutions includes IT Process Automation, Systems Management, Security Management, Configuration Control and Enterprise Administration. For more information, please visit www.netiq.com

Contacting NetIQ Corporation

Please contact us with your questions and comments. We look forward to hearing from you. For support around the world, please contact your local partner. For a complete list of our partners, please see our Web site. If you cannot contact your partner, please contact our Technical Support team.

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Chapter 1

Product Access

The Product Access Menu allows you to select the product component you want to access. To reach this menu, use command PSMENU.

How to Use a Menu

To select a menu option, type the option number and press ENTER.

| | |
|---|--|
| To run a command: | Press F10, type the command and press ENTER. |
| For assistance in selecting a command: | Press F4 (Prompt) without typing anything. |
| For assistance in entering a command: | Type the command and press F4 (Prompt). |

If you do not know the entire menu name you can use a generic name. For example, GO US* will show a list of all menus that start with US.

Function Keys

All of the panels within the Audit Menuing System use standard CUA compliant function keys. The Menu and Security Standard keys are defined as follows:

F3=Exit

Ends the current task and returns to the display from which the task was started.

F4=Browse

Display a browse selection panel listing the current records in the file.

F5=Refresh

Refresh the current screen with subordinate details (i.e., calculation results) after a change to any variable screen field.

F9=Window

Display a window listing the valid entries for the edited field nearest to the current cursor position.

F11=Delete

Delete the record from the data base file that is currently displayed on screen. This function always offers the opportunity to cancel the delete.

F12=Previous

Return to previous menu or display.

Enter=Update

Press ENTER to update the data base file with details displayed on the data entry screens.

Help Key

Display the cursor sensitive Help Text for the current field or panel. You can also set up the F1 key to display the Help screens for you own applications.

Option 1 PSAudit

The PSAudit Main Menu gives you four options to audit and manage changes to your iSeries server. For a detailed description of each option, refer to the PSAudit Overview in this chapter.

| | | | |
|------|--|-------------------|--------------------------------|
| PA00 | PentaSafe Security Technologies PSAudit Main Menu | CAS QPADEV000P | Date: 6/05/00 Time: 8:30:59 |
|------|--|-------------------|--------------------------------|

Select one of the following:

- 1 System Auditing and Reporting
- 2 System Access Analysis
- 3 Data Auditing and Reporting
- 4 Baseline Analysis

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cnd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Function Keys

In addition to the standard function keys within the system, you also have the ability to set up your own function key definitions on all menus and action bars.

F6=Messages - Displays system messages sent to a message queue. For specific information about messages, put the cursor on the message you want information about and press ENTER.

F10=Command Line - Displays a menu command line, allowing the user to type the menu or fast-path option that yo want to process. This method enables you to select the option without having to move the cursor to the desired location or display other menus.

F13=Attention - Displays an Action Bar at the top of the screen with General System Tasks, Programming, and Communication drop down menus, allowing you to choose the fast-path option you want to process.

F14=Batch - Displays information about jobs placed on the job queue submitted for batch processing during your work session.

F18=Report - Displays a list of generated reports.

Option 70 Utilities Menu

Authorizes users and displays authorized users of all products.

```
PC0                               NetIQ Corporation           Date: 9/03/
                                PentaSafe Utilities           QPADEV000J   Time: 11:54:
Select one of the following:
1  Authorize users to products
2  Maintain Option Authorities
3  VigilEnt Agent Access Control
11 Display PSAudit authorized users
12 Display PSSecure authorized users
13 Display PSDetect authorized users
14 Display PSCOMMON authorized users
15 Display PSPrvMgr authorized users
20 Install Evaluation Data
Enter Option or Function/Type ==> _____
F1=Help      F3=Exit      F6=Messages  F9=Window    F10=Cmd Line
F12=Previous F13=Attention F14=Batch Jobs F18=Reports
```


Option 90 Signoff

Terminates the user's session.

Function Keys

F3=Exit - Ends the current task and returns to the display from which the task was started.

F4=Prompt - Provides assistance in entering or selecting a command.

F10=Command Entry - Provides access to the command line entry program. To run a command, type the command and press ENTER. For assistance in selecting a command, press F4 (Prompt) without typing anything. For assistance in entering a command, type the command and press F4 (Prompt).

F12=Cancel - Cancels present screen and returns to the previous screen.

F13=Information Assistant - Displays the Information Assistant menu with several types of assistance available. Press this key to access more information about the iSeries system, such as:

- What's new for this release of the iSeries systems
- What new enhancements and functions will be available for the next release
- How to comment on information
- Where to look for iSeries information in books online

F16=System Main Menu - Goes to the system main menu.

Enter - Submits information on the display for processing.

Help - Provides additional information about using the display.

Print - Prints information currently shown on the display.

Chapter 2

System Auditing and Reporting

The System Auditing and Reporting program is designed for IT managers, auditors, and security administrators. Because your system needs to be monitored and maintained on a regular basis, PSAudit will help you do this by providing reports designed with the busy manager in mind. Detailed information can be gathered easily from the computer without spending a great deal of time. System Auditing and Reporting will help you manage your objects, files, libraries and general security.

Included in the documentation are sample reports and an easy step-by-step section to get you started.

PSAudit Reports and Features

Types of Security Reports

General Security Reports:

- All Authority Failures
- Changes to Object Authority
- Crt, Chg, Restore of User Profile

- Changes to Object Ownership
- Programs Changed to Adopt Owner's Authority
- Changes to System Values
- Changes to Network Attributes
- Changes to Subsystem Routing
- All Delete Operations
- Obtaining Adopted Authority
- Use of Service Tools
- Created Objects
- Object Move or Rename
- Actions on IPC Objects

System Access Reports:

- Invalid Sign-on Attempts
- Crt, Chg, Restore of User Profile
- Profile Swaps
- Network Resource Access
- Network Password Errors
- FTP Logon and Server Requests

User And Objects Reports:

- Command Usage by User
- Command Usage by Command
- DST SecOfr Password Reset
- All Security Reports for a User
- Programs That Adopt Authority

- Objects Being Audited
- Objects Accessed (Changed)
- Objects Accessed (Read)
- SQL/QRY Audit Report

Work Management Reports:

- Crt, Chg, Restore of User Profile
- Changes to System values
- Changes to Network Attributes
- Changes to Subsystem Routing
- Changes to the USER of a JOBD
- Actions That Affect Jobs
- System Management Changes
- Changes to Network Profiles
- Changing Service Status
- Object/User Auditing Attr. Changes

Office, Directory & Documents Reports:

- Deleted Office Documents
- Link/Unlink/Lookup Dir Entries
- Office Services Mail Actions
- DLO Accessed (Change)
- DLO Accessed (Read)
- Object Primary Group Changes

Restore Reports:

- Restore Pgms Adopting Owner's Auth
- Restore JOBDs w/User Profile Names
- Restore Objects with Owner Changes
- Restore Objects with Auth Changes
- User Profiles with Restored Auth
- Restore of Objects
- Restore of *CRQD Objects
- Restored Objects with Primary Grp Chg

Spooling & Printing Reports:

- Printed Output
- Actions to Spooled Files

User Profile Reports:

- Group Profiles
- Profile Parameter Analysis
- Profile Password Expiration Intvl *NE 0
- Profile Authority Information
- Profile Environment Values
- Profiles w/Limit Capability = *NO
- Profiles w/*SECADM, *SECOFR, or *ALLOBJ
- Profiles That Are *DISABLED
- Profiles with Expired Passwords
- Profiles by Initial Program/Menu

- Profiles Not Signed On in “x” Days
- Q* Profiles Last Sign-on Date/Time
- Profiles Initial Pgm Authority
- Profiles Initial Menu Authority
- Profiles Attention Key Pgms
- Attention Key Pgms That Adopt Auth
- Profiles by Creation Date
- Group Profiles w/any Special Auth
- Group Profiles w/ALL, SEC, or SRV
- Profiles with Multiple Groups
- Profiles Last Sign-on Date
- Profiles w/Pwd = *NONE or *DISABLED
- Profile Password Last Change Date
- User Profile = Password
- Profiles w/LMTCPB = *NO or *PARTIAL
- Profiles w/o Limit Device Sessions
- Profile Object Auditing Values
- All Profiles Special Authorities
- Profile Special Auth/Exclude *NONE
- Profile Integrity Report
- Profiles with Weak Passwords

Object Reports:

- New Objects
- Restored Objects
- Damaged Objects

- Object Counts by Owner
- Object Counts by System Name
- Unsaved Objects
- Largest Objects
- Object Source
- Missing Object Source
- Object Usage
- Object Authority by Object
- Object Authority by User
- Display Libraries Loaded
- Changed Objects
- Object Creator Analysis
- Programs that Adopt QSECOFR Auth
- Objects Owned by QSECOFR
- Authority Lists and Specific Auth
- Authorization Lists (Excludes Q*)
- Job Descriptions and Authorities
- Commands Allowed for Limited Users
- Pgms That Adopt QSECOFR Like Auth
- Subsystem General Information
- Subsystem Routing Entries
- Subsystem Workstation Entries
- Subsystem Autostart Job Entries
- Subsystem Prestart Job Entries
- Subsystem Communication Entries

Library Analysis Reports:

- Library Analysis by Library
- Library Authority
- Display Dates of Libraries Loaded
- New Libraries
- Libraries Currently in Use
- Libraries with Authority Granted
- Libraries in Order of Last Save
- Work with Library Groups
- Library Group Analysis

System Information:

- System Values
- AS/400 Device Address Report
- System Configuration List
- Network Attributes
- System Status Report
- Work with Disk Status Report
- Work with Active Jobs Report
- Local Hardware Report
- Device Configuration Changes
- Configuration Status of Lines
- Configuration Status of Controller
- Output Queue Descriptions

- Network Job Entries
- System Dist Directory Entries

File/ Member Information:

- Files Needing Reorganization
- File Usage
- Largest Files
- Largest Files (Members)
- Source Member Changes
- List of Libraries Loaded
- Journaled Files
- File Authority
- DDM File Information
- New Data Files
- New Source Files
- Changed Files

Network and Server Reports:

- Changes to System Values
- Changes to Network Attributes
- Changes to *CRQD Objects
- APPN Directory Search Filter Violations
- APPN End Point Filter Violations
- System Distribtn Directory Changes
- Closing Server Files
- Starting or Ending a Connection

- Logging On and Off the Network
- Network Resource Access
- Starting/Ending a Server Session
- Changes to Network Profiles
- Access Control List (ACL) Changes
- Account Limits Exceeded
- Descriptors Given

Summary Information:

- Summary of System Changes
- Security Recommendations
- Security Administrator Audit
- Security Analysis
- Security Check-up
- Security Check-up Configurator
- 10 Point Security Check-up

Remote Access Information:

- FTP Logon and Server Requests
- TCP Sign-on Server Requests
- DDM Request Access
- Transfer Function Server Requests
- Rmt Cmd/Dstrbtd Pgm Call Svr Requests
- File Server Requests
- Database Server Requests
- Remote SQL Server Requests

- Data Queue Original Server Reqstr
- Data Queue Optimized Server Requests
- Original Virtual Print Server Requests
- Network Print Server Entry Requests
- Network Print Server Splf Requests
- Network Data Trans. (Read)
- Network Data Trans. (Update)
- Network Trans. Manipulating Object
- Audit Trans. Only

Generating and Displaying Reports

You can access SAR reporting options on PSAudit menus and system facilities such as the job queue. These options let you generate and display SAR reports. Instructions for using SAR reporting functions on the system console are available on PSAudit menus and online help windows.

Using The Object And User Auditing Features

To use the object auditing feature, perform the following steps.

To use object and user auditing:

1. On a command line, type **PSMENU** and press ENTER.
2. Select Option 1 PSAudit and press ENTER.
3. Select Option 1 System Auditing and Reporting and press ENTER.

4. Select Option 7 System Setup and Defaults Menu for setup menu and press ENTER.
5. Select Option 2 Set-up Security Journaling and press ENTER. This will change system values QAUDCTL and AASENCMD in library PSAUDIT.
6. If you want to audit a command, use Option 10 Work with Object Auditing. Following are some commands you might want to audit. Additional commands are listed in a file named AASENCMD.
 - CRTRPGPGM
 - CRTCLPGM
 - CRTCLBLPGM
 - CHGDTA
 - UPDDTA
 - DBA
7. If you want to audit all commands used by a user profile, use Option 11 Work with User Auditing. Listed below are some users you might want to audit.
 - QSECOFR
 - QPGMR
 - QSYSOPR
 - Any other profile which specifies LMTCPB(*NO)
8. From this time forward, System Auditing and Reporting captures the use of the audited objects or users.
9. To run a report of audited objects or users:
 - a. Select Option 5 Security Reports Menu from the System Auditing and Reporting main menu and press ENTER.
 - b. Select Option 3 User and Object Reports Menu and press ENTER.

- c. Select Option 1 Command Usage by User or Option 2 for Command Usage by Commands and press ENTER.
- d. A job submittal window will appear where you can specify the Library, User Profile, Command or System Name, depending on what is relevant to the report.

Data Filtering

For most of the reports, you can filter out unwanted data. Every report has a “DEFAULT” filter that does not have any selections. The “DEFAULT” filter is used for the summary reports. You can modify the “DEFAULT” filter for your company. For example, if your software creates a data area everyday for every user, you could filter out all data areas or the name of the data area that is being created.

Scheduling

The Start System Auditing and Reporting API (STRAAAPI) command can be used in your CL programs or to schedule your reports to run on a regular basis. Included in this document is a list of available reports. You can also schedule individual jobs from the Submittal Window. Use F7 on the Submittal Window to switch to another job scheduler, if available. From here you can schedule a report to run daily, weekly or monthly.

Hints/Notes On Loading The Database

The database load only applies to the Object, File and Library sections of System Auditing and Reporting. The Security data is maintained in real time by the operating system. For example, if you delete a file and then immediately run the Deleted Objects Report, the deleted file will appear on that report.

The Object, File and Library information is not maintained in real time. If you ran an Object Load for *ALL libraries last night, all the reports you run today will use the data that was loaded last night. The same timing applies to the File and Library loads.

If you want to run object reports, you should load the object database once, then you can run all the object reports without having to reload the database.

If you want to run a specific report today and use the most current data, you can specify to reload the database in the Submittal Window (“Reload Database Before Y/N”).

In the Submittal Window, you can specify a library, a generic set of libraries, the libraries in the user portion of your library list or all of the libraries on your system.

Storage Used by System Auditing and Reporting

After you load the Object, File and Library databases, PSAudit will NOT increase in size. The information loaded will remain static because as you reload the database, the information is replaced rather than added to.

The Security information is stored in a journal receiver. If you use System Auditing and Reporting to setup your journal receiver, System Auditing and Reporting will create a journal receiver in QGPL called ZAUDJRnnnnn, where ‘nnnn’ is a four digit sequence number between ‘0000’ and ‘9999’. Over time, this receiver can become quite large. From the System Auditing and Reporting Setup Menu, select Option 5 (Generate/ Save/ Clean-up journal receivers) in order to save and delete these journal receivers. How often you generate and clean-up your journal receivers depends on how long you would like to keep current security information on your system.

The System Auditing and Reporting Database requires approximately an additional 30-100 MB of DASD, depending on the size of your system.

The database load files (PSAUDIT/AAPF10, AAPF20, AAPF30) contain a record for each object. AAPF10 contains a 256 byte record for each object on the system. AAPF20 contains a 56 byte record for each library. AAPF30 contains a 301 byte record for each file member.

The total size of these files depends on the total number of objects on the system and not the size of the DASD. You can predict the size by counting the number of objects and using the above information.

Getting Started with Auditing and Reporting

Here is an easy way to understand what System Auditing and Reporting can do for you:

To become familiar with auditing and reporting:

1. Read through the documentation and sample reports.
2. Load PSAudit using the installation instructions.
3. Load File Object and Library Database:
 - a. Select Option 1 PSAudit and press ENTER.
 - b. Select Option 1 System Auditing and Reporting from the PSAudit Main Menu and press ENTER.
 - c. Select Option 1 Load Auditing Database Menu and press ENTER.
 - d. Select Option 1 Load File, Obj. & Library Database and press ENTER.
 - e. From the PSAudit Submittal Window, modify the job submittal parameters and press ENTER to submit the report.
 - f. When this job completes, the System Auditing and Reporting database will have the object information for your Object, File/Member, and Library reports. Since you pre-loaded the database, you do not have to load the database for reports you run.

Note

Initially, you may want to run this job overnight. After the first run, the start and end times will give you an idea of the job's duration.

4. Object Reports Menu:

- a. From the System Auditing and Reporting Menu, select Option 2 Object Reports Menu and press ENTER.
- b. Select one of the reports to run and press ENTER.
- c. From the PSAudit Submittal Window modify the job submittal parameters and press ENTER.

5. File/Member Reports Menu:

- a. From the System Auditing and Reporting Menu, select Option 3 File/Member Reports Menu and press ENTER.
- b. Select one of the reports to run and press ENTER.
- c. From the PSAudit Submittal Window modify the job submittal parameters and press ENTER.

6. Library Reports Menu:

- a. From the System Auditing and Reporting Menu select Option 4 Library Reports Menu and press ENTER.
- b. Select one of the reports to run and press ENTER.
- c. From the PSAudit Submittal Window modify the job submittal parameters and press ENTER.

7. Library Analysis is best done over all libraries. You can load object information or selected libraries, but to give you the most information about your system, loading information for all the libraries will tell you exactly how much storage each library is using. This job may run for over two hours. To load the object information and run the report:

- a. From the Library Reports Menu, select Option 1 Library Analysis By Library.
- b. Within the PSAudit Submittal Window, enter “**ALL**” or a selected library and “**Y**” for reload. As with all jobs submitted, you can modify the job submittal parameters.

8. Security Journaling setup and reporting:

- a. From the System Auditing and Reporting Menu, select Option 7 System Setup and Defaults Menu and press ENTER.
- b. Using the System Setup Menu, select Option 2 Setup Security Journaling and press ENTER.

This option will first setup the security journaling on your server and then the System Auditing and Reporting will immediately begin capturing all the information for the security reports. If a user deleted a file prior to setting up Security Journaling, System Auditing and Reporting will not have captured that information. But now, if a user deletes a file, that information will show up on the report that shows all delete operations.

- c. Select a report, such as Option 9 All Delete Operations from the General Security Reports Menu and test its accuracy.

System Auditing and Reporting Main Menu

The Main Menu enables the System Administrator to access all of the features of the product.

```
PA1          PentaSafe Security Technologies, Inc  ANYUSER    Date:  9/25/01
              System Auditing and Reporting      QPADEV000R  Time: 16:50:38

Select one of the following:

1  Load Auditing Database Menu
2  Object Reports Menu
3  File/Member Reports Menu
4  Library Reports Menu
5  Security Reports Menu
6  AS/400 System Reports Menu
7  System Setup and Defaults Menu
8  User Profile Reports Menu
9  Summary Reports Menu

Enter Option or Function/Type ==>

F1=Help      F3=Exit      F6=Messages  F9=Window    F10=Cmd Line
F12=Previous F13=Attention F14=Batch Jobs F18=Reports
```

Note

On-line help exists for each option. Enter the option number and then press the Help key. Each main menu option is explained below.

Option 1 Load Auditing Database Menu

This option will display the Load Database Menu. PSAudit has a database that is used by many different functions. You may use this menu to load your database first, then run the reports at a later time.

You will want to use this menu to reload your database for selected libraries whenever changes have been made to your system. When you reload the database for a selected library, you will not lose any of the current information already contained in the database. For more information see, “Option 1 Load Auditing Database Menu” on page 27.

Option 2 Object Reports Menu

The Object Reports Menu gives you information to manage the objects on your system. All of the reports on this menu can run after the object data has been loaded to the database.

For more information about reporting options, see “Option 2 Object Reports Menu” on page 33.

Option 3 File/Member Reports Menu

This option will display the File Reports Menu. These reports give you information to manage the files on your system. It is very important to monitor the number of deleted records on your system.

These reports also make it easy to monitor the growth of the files on your system. All of the reports on this menu can run after the file data has been loaded to the database. For more information, see “Option 3 File/Member Reports Menu” on page 59.

Option 4 Library Reports Menu

This option will display the Library Report Menu. These reports give you information to manage the libraries on your system and also make it easy to monitor their growth.

For more information about reporting options, see “Option 4 Library Reports Menu” on page 71.

Option 5 Security Reports Menu

This option will display the Security Reports Menu. These reports give you information to manage operating system security. Before running these reports, you must first setup Security Journaling.

This is easy to do. First, select Option 7 from the Main Menu for Setup. Next, select Option 2 to Setup Journaling. Now your system will start to capture the security information for the reports.

Note

Any authorization failures or any other security violation before Security Journaling was set up will not show up in the reports.

For more information about each reporting option, see “Option 5 Security Reports Menu” on page 85.

Option 6 AS/400 System Reports Menu

This option will display the AS/400 System Report Menu. These reports give you information about your operating system that will help to manage the system.

For more information about each reporting option, see “Option 6 AS/400 System Report Menu” on page 195.

Option 7 System Setup and Defaults Menu

This option will display the System Setup and Defaults Menu. The functions on this menu will enable you to tailor PSAudit to your environment. Use this menu to setup your job submittal defaults, security for System Auditing and Reporting, and Security Journaling.

For more information, see “Option 7 System Setup and Defaults Menu” on page 205.

Option 8 User Profile Reports Menu

This option displays the User Profiles Menu. The reports listed on this menu provide you with the ability to gather various information on your users. For more information, see “Option 8 User Profile Reports Menu” on page 241.

Option 9 Summary Reports Menu

This menu has several summary reports that combine all aspects of System Auditing and Reporting. These summary reports are very helpful for upper management because they are not very detailed, but still show information to keep them informed.

For more information, see “Option 9 Summary Reports” on page 271.

Chapter 3

Option 1 Load Auditing Database Menu

The Load Database Menu enables the System Administrator to populate the reporting database. You will want to use this menu to reload your auditing database for selected libraries to report on changes made to your system.

This menu is accessed by selecting Option 1(Load Auditing Database Menu) from the Main Menu.

| | | | |
|------|-----------------------------|------------|---------------|
| PA11 | NetIQ Corporation | USER1 | Date: 9/14/05 |
| | Load Auditing Database Menu | QPADEV000B | Time: 8:51:32 |

Select one of the following:

- 1 Load File, Obj. & Library Database
- 2 Set Libraries List for Object Load
- 3 Set ASP GroupList for Object Load
- 5 Reset Object Usage Counts

Enter Option or Function/Type ==>

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 Load File, Object & Library Database

Use this option to load or reload ALL of the out files in the PSAudit system auditing and reporting database. This job will:

- Load/Reload object information for ALL libraries in file AAPF10.
- Load/Reload ALL library information in file AAPF20.
- Load/Reload file and member information for ALL libraries in file AAPF30.
- Load/Reload object to be audited in file AAAPF022. This job loads the library data that was defined through Option 2 Set Library List for Object Load. To load all libraries, leave the library list blank.

Note

Initially, you may want to run this job overnight. After the first run, the start and end times will give you an idea of the job's duration.

Option 2 Set Library List for Object Load

Use this option to specify which libraries are included or excluded when loading the database (Option 1 - Load File, Obj. & Library Database).

You can specify the maximum number of active jobs to be run concurrently in batch, depending on the size of the system. In the **No. of Concurrent Load Jobs** field, you can manually set the number of jobs to be run. If you type ***AUTO** in the entry field, the system automatically calculates the number of jobs to run.

To load all libraries, leave the library list blank regardless of the value in the **Libraries to Exclude/Include** entry field (E - exclude or I - include).

PSAudit allows you to specify the libraries from which Secure Configuration Manager gathers data. If you do not specify libraries to include or exclude, all libraries within the specified ASP groups on your server provide data to Secure Configuration Manager.

For more information about including or excluding data from ASP groups, see “Option 3 Set ASP Group List for Object Load” on page 30.

To include or exclude libraries from task reports:

1. From the PSAudit Main Menu, type 1 (System Auditing and Reporting) and press Enter.
2. Type 1 (Load Auditing Database Menu) and press Enter.
3. Type 2 (Set Libraries List for Object Load) and press Enter.
4. *If you want to manually set the maximum number of active batch jobs run concurrently on your server*, specify a number between 1 and 1000 in the **No. of Concurrent Load Jobs** field. Setting this field to *NOMAX, runs all submitted active batch jobs regardless of size.
5. *If you want the server to automatically set the maximum number of active batch jobs run concurrently*, type *AUTO in the **No. of Concurrent Load Jobs** field.
6. *If you want the IASP report to query all libraries except those specified*, type E in the **Libraries to Exclude/Include** field and press Enter.
7. *If you want the IASP report to query only specified libraries*, type I in the **Libraries to Exclude/Include** field and press Enter.

Note

- If the ASP group containing the specified library has been excluded from Secure Configuration Manager task reports using the Set Auxiliary Storage Pool Defaults screen, data from this library is not returned.
 - If the ASP group containing the specified library is inactive when you run a Secure Configuration Manager task report, data from this library is not returned.
-

8. Specify the libraries you want excluded or included in the **Libraries** field.
9. Press F8.
10. Type Y and press Enter.
11. Press F3 until you return to the main menu.

Option 3 Set ASP Group List for Object Load

Use this option to specify which ASP groups provide data to Secure Configuration Manager. If you do not specify ASP groups to include or exclude, only the system ASP groups on your server provide data to Secure Configuration Manager.

To include or exclude ASP groups from task reports:

1. From the PSAudit Main Menu, type 1 (System Auditing and Reporting) and press Enter.
2. Type 1 (Load Auditing Database Menu) and press Enter.
3. Type 3 (Set ASP Group List for Object Load) and press Enter.
4. *If you want task reports to query all ASP groups except those specified*, type E in the **ASP Groups to Exclude/Include** field and press Enter.
5. *If you want task reports to query only specified ASP groups*, type I in the **ASP Groups to Exclude/Include** field and press Enter.
6. Specify the ASP group names you want excluded or included in the **ASP Groups** field.
7. Press F8.
8. Type Y and press Enter.
9. Press F3 until you return to the PSAudit Main Menu.

For information about running task reports, see the *User Guide for Secure Configuration Manager*.

Option 5 Reset Object Usage Counts

Use this option to reset usage counts for a single library or *ALL. The usage count keeps a count of the number of times an object is used. The count will only be increased once a day. For example, if you reset the count today and the object is used 2 days over the next week, the usage count will be 2 next week.

This feature is handy to determine exactly how much a program or file is being used over time.

Note

This option may run for over four hours. Resetting the “Days Used Count” will cause specified objects to change. Therefore, system functions such as “Save Changed Objects” will be affected.

| | | |
|-------------------------------|--|---------------|
| PA11 | PentaSafe Security Technologies, Inc CAS | Date: 1/25/01 |
| Load Auditing | PSAudit Submittal Window | |
| Select one of the following: | | |
| 1 Load File, Obj. & Library D | | |
| 2 Set Libraries List for Obje | | |
| 5 Reset Object Usage Counts | | |
| Enter Option or Function/Type | | |
| F1=Help | F3=Exit | |
| F12=Previous | F13=Attention | |

Reset Object Usage Counts

ALL/Gen/*USRLIBL/Lib SQLAUD

Output file, *NONE . . *NONE

Library

*Replace *Add records. *REPLACE

Run interactively. . . *YES (*YES-*NO)

OUTQ QPRINT

JOBQ QBATCH

Hold on job queue . . *NO (*YES-*NO)

Enter=Submit F3=Exit F7=Schedule

Library options for Reset Object Usage Counter:

| | |
|----------------------------------|--|
| *ALL - <i>for library</i> | This will load/reload ALL object information for your system. |
| Gen* | This option allows you to enter a generic library name (i.e., Q* will process all the libraries that begin with the letter Q). |
| *USRLIB | This option will select those libraries in the user portion of your library list. With this selection, you can manipulate your library list with the EDTLIBL command before submitting reports for specific libraries. |
| Library | This will process all objects from a selected library. |

Note

The resetting of counts should only be done about once a year to find out how frequently objects are being used, if at all.

Chapter 4

Option 2 Object Reports Menu

The Object Reports Menu provides you with information to manage the objects on your system. All the reports on this menu can be run after the object information has been loaded to the database (file AAPF10).

| | | | |
|------|---------------------------------|------------|----------------|
| PA12 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | Object Reports Menu | QPADEV000Q | Time: 16:19:42 |

Select one of the following:

| | |
|--------------------------------|----------------------------------|
| 1 New Objects | 14 Changed Objects |
| 2 Restored Objects | 15 Object Creator Analysis |
| 3 Damaged Objects | 20 More Object Authority Reports |
| 4 Object Counts By Owner | |
| 5 Object Counts By System Name | |
| 6 Unsaved Objects | |
| 7 Largest Objects | |
| 8 Object Source | |
| 9 Missing Object Source | |
| 10 Object Usage | |
| 11 Object Authority by Object | |
| 12 Object Authority by User | |
| 13 Display Libraries Loaded | |

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cnd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 New Objects

This report shows all of the new objects created on your system based on the selection criteria you provide. This information is helpful to identify new objects in production libraries. Problems frequently arise in production environments and no one knows why. When this happens, you can use this report to identify the new objects to help you locate the problem.

Another use for this report is to monitor change control. If a new object appears in a production environment, there should be the associated change control documents filed. This is a standard audit report.

Selection criteria:

- Library, *ALL, Gen*
or *USRLIBL

If you choose to reload the database, it will use the libraries specified here.
- From/To Date

Select the date range you would like to audit.

| | | | | | | | | | |
|--------------------------------|----------|----------|----------|---------|---------|---------|------------|----------|-------------------------|
| AACL330N | | | | | | | | | |
| New Objects | | | | | | | | | |
| 12:52:03 1/28/98 P | | | | | | | | | |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY : *ALL | | | | | | | | | |
| FROM DATE : 12/01/97 | | | | | | | | | |
| TO DATE : 12/31/97 | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CRT DATE | OWNER | SRC LIB | SRC FIL | SRC MEMBER | SYSTEM # | OBJECT TEXT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| AMTLIB | ENTRYDTE | *DTAARA | 12/02/97 | QSECOFR | | | | PENTA401 | |
| LIBRARY TOTAL: | | | | | | | | | |
| | | 1 | | | | | | | |
| ANICO | APTIGG | *FILE | 12/01/97 | QPGMR | ANICO | QDDSSRC | APTIGG | PENTA401 | Trigger File |
| ANICO | SLA001 | *PGM | 12/01/97 | QPGMR | ANICO | QRPGSRC | SLA001 | PENTA401 | Policy Master Trigger P |
| ANICO | SLA010 | *PGM | 12/09/97 | QPGMR | ANICO | QRPGSRC | SLA010 | PENTA401 | Rate Increase (call fro |
| ANICO | SLEXMPL1 | *FILE | 12/21/97 | QPGMR | ANICO | QDDSSRC | SLEXMPL1 | PENTA401 | Exemption File |
| ANICO | SLRATE | *FILE | 12/05/97 | QPGMR | ANICO | QDDSSRC | SLRATE | PENTA401 | Standard Life Rate Incr |
| ANICO | SLRATEL | *FILE | 12/05/97 | QPGMR | ANICO | QDDSSRC | SLRATEL | PENTA401 | Rates in Company, Plan, |
| ANICO | SLRATEL1 | *FILE | 12/05/97 | QPGMR | ANICO | QDDSSRC | SLRATEL1 | PENTA401 | Rates in Company, Plan, |
| ANICO | SLRATEL2 | *FILE | 12/08/97 | QPGMR | ANICO | QDDSSRC | SLRATEL2 | PENTA401 | Rates in Company, Plan, |
| ANICO | SLR001F | *FILE | 12/21/97 | QPGMR | ANICO | QDDSSRC | SLR001F | PENTA401 | Standard Life Increase |
| ANICO | SLR001R | *PGM | 12/21/97 | QPGMR | ANICO | QRPGSRC | SLR001R | PENTA401 | Rate Increase Update |

Option 2 Restored Objects

This report shows all of the restored objects on your system based on the selection criteria you provide. This information is helpful to identify restored objects in production libraries. Problems frequently arise in production environments and no one knows why. When this problem happens, you can use this report to find the restored objects to help you locate the problem.

Another use for this report is to monitor change control. If a restored object appears in a production environment, there should be the associated change control documents filed. This is a standard audit report.

Selection criteria:

- Library, *ALL, Gen*
or *USRLIBL

If you choose to reload the database it will use the libraries specified here.
- From/To Date

Select the date range you would like to audit.

| | | | | | | | | | |
|--------------------------------|----------|----------|----------|---------|---------|---------|------------|----------|-----------------------------|
| AACL33OR | | | | | | | | | |
| Restored Objects | | | | | | | | | |
| 13:27:08 1/28/98 PAG | | | | | | | | | |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY : *ALL | | | | | | | | | |
| FROM DATE : 12/01/97 | | | | | | | | | |
| TO DATE : 12/31/97 | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | RST DATE | OWNER | SRC LIB | SRC FIL | SRC MEMBER | SYSTEM # | OBJECT TEXT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| AMTLIB | OPNHSTM | *FILE | 12/01/97 | QSECOFR | APHIST | QDSSRC | OPNHSTM | | Invoice History Header |
| AMTLIB | OPNPAY | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRK | PNPAY | | OPEN PAYABLES |
| AMTLIB | OPNPAYM | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRK | OPNPAYM | | OPEN PAYABLES (AM RECORD) |
| AMTLIB | OPNPAYN | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRK | PNPAYN | | OPEN PAYABLES (AN RECORD) |
| AMTLIB | OPNPAYO | *FILE | 12/01/97 | QDFTOWN | AMZE0 | EDWRKJQ | OPNPAYO | | OPEN PAYABLES (AO RECORD) |
| AMTLIB | OPNPAY01 | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRK | OPNPAY01 | | SORTED OPNPAY - (AMASS5) |
| AMTLIB | OPNPAY02 | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRK | OPNPAY02 | | LOGICAL VIEW OPNPAYPHYSICAL |
| AMTLIB | OPNPAY03 | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRKJQ | OPNPAY03 | | OPEN PAYABLES LOGICAL |
| AMTLIB | OPNPAY06 | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRKJQ | OPNPAY06 | | OPNPAY LOGICAL |
| AMTLIB | PAYWRC | *FILE | 12/01/97 | QDFTOWN | DB3 | DDSSRC | PAYWRC | | PAYABLES WORK - RECORD TYPE |
| AMTLIB | PAYWRK | *FILE | 12/01/97 | QDFTOWN | AMMOD | QDSSRC | PAYWRK | | |
| AMTLIB | PAYWRKD | *FILE | 12/01/97 | QDFTOWN | M7XFTC | EDWRK | PAYWRKD | | PAYABLES WORK - RECORD TYPE |

Option 3 Damaged Objects

This report shows all of the damaged objects on your system based on the selection criteria you provide. Run this report before attempting to reload or upgrade your operating system.

On iSeries servers, objects are damaged from time to time. The problem with damaged objects is that you do not know they exist until it is too late. A damaged object will function in normal processing, but the system will not allow you to save it or restore it. This report will identify damaged objects so you can recreate them before they become a problem.

Caution

Do not attempt to upgrade your operating system if you have damaged system objects.

Selection Criteria:

Library, *ALL, Gen* or *USRLIBL If you choose to reload the reporting database, it will use the libraries specified here.

| | | | | | | | | | | | | |
|----------------------------|------------|---------|---------|------------|-----|---------|--------|--|--|-----------------|---------------------------|------|
| ACL330D | | | | | | | | | | 10:04:16 | 7/12/99 | PAGE |
| LIBRARY | | | | | | | | | | Damaged Objects | | |
| ===== | | | | | | | | | | SRC LIB | | |
| ===== | | | | | | | | | | SRC FIL | | |
| ===== | | | | | | | | | | SRC MEMBER | | |
| ===== | | | | | | | | | | SYSTEM # | | |
| ===== | | | | | | | | | | OBJECT TEXT | | |
| ===== | | | | | | | | | | ===== | | |
| QUSRSYS | A | *MSGQ | 7/07/99 | A | | | | | | ISIS | | |
| QUSRSYS | AA | *MSGQ | 6/22/99 | AA | | | | | | ISIS | | |
| QSYS | PAC | *USRPRF | 5/07/99 | AAA | | | | | | ISIS | Paul Culin | |
| QUSRSYS | AAA | *MSGQ | 5/06/99 | AAA | | | | | | ISIS | RUMBA test profile | |
| RUMBA | "Payroll" | *FILE | 5/07/99 | AAA | | | | | | ISIS | | |
| RUMBA | "Rumb0001" | *FILE | 5/07/99 | AAA | | | | | | ISIS | | |
| QUSRSYS | AAAAAAAAAA | *MSGQ | 5/25/99 | AAAAAAAAAA | | | | | | ISIS | | |
| QUSRSYS | ABC123XYZ | *MSGQ | 6/03/99 | ABC123XYZ | | | | | | ISIS | | |
| QUSRSYS | AKF | *MSGQ | 6/23/99 | AKF | | | | | | ISIS | 'Aaron P. | |
| QUSRSYS | ANONYMOUS | *MSGQ | 6/16/99 | ANONYMOUS | | | | | | ISIS | | |
| APLUS | ARP | *DTAARA | 6/30/99 | ARP | | | | | | ISIS | APLUS defaults for ARP | |
| ARP | SRCDD | *FILE | 7/01/99 | ARP | | | | | | ISIS | DAR testing | |
| ARP | TESTPF | *FILE | 7/08/99 | ARP | ARP | SRCDD | TESTPF | | | ISIS | Test DAR | |
| PSAUDIT | DDJRN | *JRN | 7/08/99 | ARP | | | | | | ISIS | PentaSafe Data Auditing & | |
| PSAUDIT | DDJRN00000 | *JRNRCV | 7/08/99 | ARP | | | | | | ISIS | PentaSafe Data Auditing & | |
| QSYS | ARP | *LIB | 7/01/99 | ARP | | | | | | ISIS | | |
| QUSRSYS | ARP | *MSGQ | 6/29/99 | ARP | | | | | | ISIS | Anthony Perera | |
| BTF | MSACCESFBA | *SQLPKG | 7/01/99 | BFTST | | | | | | ISIS | | |
| QUSRSYS | BFTST | *MSGQ | 7/01/99 | BFTST | | | | | | ISIS | | |
| APLUS | BTF | *DTAARA | 5/04/99 | BTF | | | | | | ISIS | APLUS defaults for BTF | |
| AS400LIB | AS400CALL | *FILE | 5/19/99 | BTF | | | | | | ISIS | | |
| BTF | DBASRV3FBA | *SQLPKG | 6/22/99 | BTF | | | | | | ISIS | | |
| BTF | DEVINIT1 | *PGM | 4/19/99 | BTF | | | | | | ISIS | | |
| BTF | FILE1 | *FILE | 3/29/99 | BTF | BTF | QDDSSRC | FILE1 | | | ISIS | | |
| BTF | FILE2 | *FILE | 3/29/99 | BTF | BTF | QDDSSRC | FILE2 | | | ISIS | | |
| TOTAL DAMAGED OBJECTS : 25 | | | | | | | | | | | | |

Option 4 Object Counts By Owner

This report identifies objects by owner. To keep your system clean, it helps to limit which user profiles own objects. This report shows in detail and/or summary, which user profiles own objects. You can report on a single user profile or *ALL.

Note

You must pre-load the database for this report by using the option to load object data from the Load Database Menu.

Choices for Print Detail:

- D** Detail will list every object, sorted by owner.
- S** Summary will only print the counts for each owner.
- B** Both will print the Detail and Summary

| | | | | | | | | | |
|------------------------|------------|----------|----------|----------|---------|---------|------------|----------|---------------------------|
| AACL3300 | | | | | | | | | |
| SELECTION CRITERIA: | | | | | | | | | |
| OWNER : *ALL | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CRT DATE | OWNER | SRC LIB | SRC FIL | SRC MEMBER | SYSTEM # | OBJECT TEXT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| QUSRSYS | QTMSDA | *SP | 1/30/98 | | | | | | |
| QUSRSYS | 0000 | *MSGQ | 12/11/97 | 0000 | | | | PENTA401 | |
| QUSRSYS | AATEST | *MSGQ | 12/18/96 | AATEST | | | | PENTA401 | |
| QUSRSYS | ADMIN | *MSGQ | 7/01/97 | ADMIN | | | | PENTA401 | |
| AAITCTL | AAITBATCH | *JOB | 12/20/96 | ALDONAIT | | | | PENTA401 | Aldon/AIT JOB for Batch |
| AAITCTL | AAITLIBLVL | *DTAARA | 12/20/96 | ALDONAIT | | | | PENTA401 | Control library version |
| AAITCTL | AAITLIBNUM | *DTAARA | 12/20/96 | ALDONAIT | | | | PENTA401 | Copyright (c) Aldon Compu |
| AAITCTL | AAITOWNER | *DTAARA | 12/20/96 | ALDONAIT | | | | PENTA401 | Copyright (c) Aldon Compu |
| AAITCTL | APPANDPRJ | *FILE | 12/20/96 | ALDONAIT | AAITDEV | QDDSSRC | APPANDPRJ | PENTA401 | Copyright (c) Aldon Compu |
| AAITCTL | APPINFO | *FILE | 12/20/96 | ALDONAIT | AAITDEV | QDDSSRC | APPINFO | PENTA401 | Copyright (c) Aldon Compu |
| AAITCTL | APPPRJ | *FILE | 12/20/96 | ALDONAIT | AAITDEV | QDDSSRC | APPPRJ | PENTA401 | Copyright (c) Aldon Compu |
| AAITCTL | CRTCMDDEF | *FILE | 12/20/96 | ALDONAIT | AAITDEV | QDDSSRC | CRTCMDDEF | PENTA401 | Copyright (c) Aldon Compu |
| AAITCTL | CRTCMDDEFC | *FILE | 12/20/96 | ALDONAIT | AAITDEV | QDDSSRC | CRTCMDDEFC | PENTA401 | Copyright (c) Aldon Compu |
| AAITCTL | CRTCMDDEFO | *FILE | 12/20/96 | ALDONAIT | AAITDEV | QDDSSRC | CRTCMDDEFO | PENTA401 | Copyright (c) Aldon Compu |

The report above was generated using ‘D’ for the Print Detail prompt.

Option 5 Object Counts By System Name

This report identifies objects by system name. If you want to monitor the objects on your system by the system where they were created, this can help you do that.

You can report on a single system name or *ALL.

Note

You must pre-load the reporting database for this report by using the option to load object data from the Load Database Menu.

Choices for Print Detail:

- D** Detail will list every object by system name.
- S** Summary will only print the counts for each system name.
- B** Both will print the Detail and Summary.

| | | | | | | |
|----------------------------|--|------------------------------|-------|----------|---------|------|
| AACL330S | | Object Counts By System Name | | 19:46:17 | 2/05/98 | PAGE |
| SELECTION CRITERIA: | | | | | | |
| SYSTEM NAME . . . : *ALL | | | | | | |
| SYSTEM TOTAL FOR | | : | 2,712 | | | |
| SYSTEM TOTAL FOR AIGWHQ | | : | 711 | | | |
| SYSTEM TOTAL FOR ALDONM01: | | : | 21 | | | |
| SYSTEM TOTAL FOR ALDONT01: | | : | 543 | | | |
| SYSTEM TOTAL FOR APACHE | | : | 2 | | | |
| SYSTEM TOTAL FOR ARTHUR | | : | 196 | | | |
| SYSTEM TOTAL FOR ASC400 | | : | 6 | | | |
| SYSTEM TOTAL FOR ASC404 | | : | 78 | | | |
| SYSTEM TOTAL FOR AS011 | | : | 3 | | | |
| SYSTEM TOTAL FOR AS4#2 | | : | 17 | | | |
| SYSTEM TOTAL FOR AS400N1 | | : | 15 | | | |
| SYSTEM TOTAL FOR ATLA1025: | | : | 2 | | | |
| SYSTEM TOTAL FOR ATLA5048: | | : | 3 | | | |
| SYSTEM TOTAL FOR ATLA5073: | | : | 106 | | | |
| SYSTEM TOTAL FOR BARSA | | : | 16 | | | |
| SYSTEM TOTAL FOR BARSA2 | | : | 1 | | | |

The report above was generated using ‘S’ for the Print Detail prompt.

Option 6 Unsaved Objects

This report shows all of the unsaved objects on your system based on the selection criteria you provide.

Good backups are essential. This report can identify unsaved objects so you can modify your back up procedures to ensure that all of your objects are saved on a regular basis.

Selection criteria:

Library, *ALL, Gen*, *USRLIBL If you choose to reload the reporting database, it will use the libraries specified here.

Date Range Any objects that have not been saved within the date range will appear on the report.

| | | | | | | | | | |
|-------------------------------|------------|----------|-----------|---------|-----------|----------|------------|----------|----------------------------|
| ACL330U | | | | | | | | | |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY : QGPL | | | | | | | | | |
| FROM DATE : 1/01/98 | | | | | | | | | |
| TO DATE : 1/31/98 | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | LAST SAVE | OWNER | SRC LIB | SRC FIL | SRC MEMBER | SYSTEM # | OBJECT TEXT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| QGPL | AASECM01 | *FILE | 12/13/97 | QSECOFR | | | | PENTA401 | Outfile for journal entry |
| QGPL | AAUSRAUD | *FILE | 12/13/97 | QSECOFR | LEXSRC400 | AASRC400 | AAPPCD | PENTA401 | V-AA4.0 (c) 1997 PentaSafe |
| QGPL | AAUSRMSG | *MSGF | 12/13/97 | QSECOFR | | | | PENTA401 | AA user messages |
| QGPL | ALOG | *CMD | 12/13/97 | QSECOFR | LEXSRC400 | ALSRC400 | ALOG | PENTA401 | V-AL6.5 (c) PENTA 1991 Aut |
| QGPL | ASCUST9 | *PGM | 12/13/97 | QSECOFR | EHD | EHD | ASCUST9 | PENTA401 | Sample Custom Program Pr |
| QGPL | ASO | *CMD | 12/13/97 | QSECOFR | LXASLIBS | QCMDSRC | ASO | PENTA401 | V-AS9.3 (c) PENTA 1991 |
| QGPL | BGNRFPJOB | *PGM | 12/13/97 | QSECOFR | EHD | EHD | BGNRFPJOB | PENTA401 | Group Job Initial Program |
| QGPL | BGNRFPJOBI | *PGM | 12/13/97 | QSECOFR | EHD | EHD | BGNRFPJOBI | PENTA401 | Group Job Initial Program |
| QGPL | CALLPENTA | *PGM | 12/13/97 | QSECOFR | PENTA | SOURCE | CALLPENTA | PENTA402 | Pgm to call penta |
| QGPL | COMMSRC | *FILE | 12/13/97 | QSECOFR | | | | PENTA402 | communication programs |
| QGPL | COSTDATA | *FILE | 12/13/97 | QSECOFR | QTEMP | DDSOURCE | DDPF52 | PENTA402 | |
| QGPL | CRW32FBA | *SQLPKG | 12/13/97 | QPGMR | | | | PENTA401 | |

Option 7 Largest Objects

This report lists the largest objects on your system. If much of your disk space is being used by source files or journal receivers, it may not be necessary to keep those objects on-line. This report identifies the largest objects so you can manage your disk space more efficiently.

Selection criteria:

Library, *ALL, Gen*, *USRLIBL Select the individual library, *ALL for all libraries, Gen* for generic library selection, or *USRLIBL to run the report for libraries in your library list. If you choose to reload the reporting database, the reload will use this library designation.

Number of Objects This is the maximum number of objects to be listed on the report. The default is 50.

| | | | | | | | | |
|--------------------------|------------|----------|-----------------|---------|---------------|----------|----------------------------|--|
| AACL330L | | | Largest Objects | | | | 20:17:52 2/05/98 PAGE | |
| SELECTION CRITERIA: | | | | | | | | |
| LIBRARY : QGPL | | | | | | | | |
| MAXIMUM NUMBER. . : 100 | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | LAST SAVE | OWNER | OBJ SIZE | SYSTEM # | OBJECT TEXT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| LUCAS | RMS200 | *FILE | 1/31/98 | QSECOFR | 1,229,985,792 | CIRCLE | | |
| PSAUDIT | PSAUDIT004 | *FILE | 0/00/00 | QSECOFR | 237,444,096 | PENTA401 | V-AA4.0 (c) 1997 PentaSafe | |
| IPGAGP3 | APGWATMP | *FILE | 1/31/98 | QPGMR | 231,129,600 | STUDB30A | Temporary File of Program | |
| QSPL | Q04079N001 | *FILE | 0/00/00 | QSPL | 204,740,608 | S10A0031 | Spool Data Base File | |
| QIWS | QAZDGCOL | *FILE | 12/13/97 | QSYS | 201,341,952 | PENTA401 | CATALOG - SYSCOLUMNS, COL | |
| PSDATA | ALPF01 | *FILE | 1/31/98 | QSECOFR | 189,929,472 | PENTA401 | V-AL6.5 (c) PENTA 1991 Au | |
| QSYS | QADBIFLD | *FILE | 2/28/96 | QSYS | 178,522,112 | 00000000 | Cross reference physical | |
| RMSVAN#SRC | QRPGSRC | *FILE | 1/16/98 | APC | 117,673,984 | SCRANTON | Source File To Contain 8. | |
| PENTAGOLD | ELTEXP1 | *FILE | 1/31/98 | QPGMR | 103,028,736 | PENTA401 | V-EX1.00 (c) TIE Program | |
| CWCPRD | F0911 | *FILE | 12/13/97 | QDFTOWN | 100,705,792 | S102C5CD | Account Ledger | |
| PSAUDIT | ALPF01 | *FILE | 1/31/98 | QSECOFR | 93,334,016 | ATLAS073 | V-AL6.5 (c) PENTA 1991 Au | |
| QGPL | ZAUDJR0038 | *JRNRCV | 1/31/98 | QSECOFR | 88,215,552 | PENTA401 | Security Journal Receiver | |
| PENTAGOLD | FENMKP1 | *FILE | 12/13/97 | QPGMR | 74,782,720 | PENTA401 | V-MK1.48 (c) PENTA 1995 P | |

Option 8 Object Source

This report lists the object and the source file and member used to compile the objects to help you manage your production objects. If a production object was compiled from a test library, this could raise a red flag about that object.

Selection criteria:

Library, *ALL, Gen*, *USRLIBL Select the individual library, *ALL for all libraries, Gen* for generic library selection, or *USRLIBL to run the report for libraries in your library list. If you choose to reload the reporting database, the reload will use this library designation.

| | | | | | | | | | | | | |
|--------------------------|-------------|----------|----------|---------------|-----------|----------|-------------|----------|---------------------------|---------|--|-----|
| AACL33OP | | | | Object Source | | | | 20:18:04 | | 2/05/98 | | PAG |
| SELECTION CRITERIA: | | | | | | | | | | | | |
| LIBRARY : QGPL | | | | | | | | | | | | |
| SOURCE | | | | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CHG DATE | OWNER | SRC LIB | SRC FIL | SRC MEMBER | SYSTEM # | OBJECT TEXT | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | |
| QGPL | AACL33CAO | *FILE | 3/31/96 | QSECOFR | LEXSRC400 | AASRC400 | AAPF10 | PENTA401 | V-AA4.0 (c) 1997 PentaSaf | | | |
| QGPL | AAUSRAUD | *FILE | 5/26/96 | QSECOFR | LEXSRC400 | AASRC400 | AAPFCD | PENTA401 | V-AA4.0 (c) 1997 PentaSaf | | | |
| QGPL | ALOG | *CMD | 4/22/91 | QSECOFR | LEXSRC400 | ALSRC400 | ALOG | PENTA401 | V-AL6.5 (c) PENTA 1991 Au | | | |
| QGPL | ASCUST9 | *PGM | 3/19/97 | QSECOFR | EHD | EHD | ASCUST9 | PENTA401 | Sample Custom Program P | | | |
| QGPL | ASO | *CMD | 4/07/89 | QSECOFR | LXASLIBS | QCMDSRC | ASO | PENTA401 | V-AS9.3 (c) PENTA 1991 | | | |
| QGPL | BGNGRFPJOB | *PGM | 8/01/97 | QSECOFR | EHD | EHD | BGNGRFPJOB | PENTA401 | Group Job Initial Program | | | |
| QGPL | BGNGRFPJOBI | *PGM | 12/10/97 | QSECOFR | EHD | EHD | BGNGRFPJOBI | PENTA401 | Group Job Initial Program | | | |
| QGPL | BLCRTCLT | *CMD | 7/07/97 | QSECOFR | PENBLLIB | SOURCE | BLCRTCLT | PENTA401 | V-BL1.3 (c) 1997 PentaSaf | | | |
| QGPL | CALLPENTA | *PGM | 10/27/95 | QSECOFR | PENTA | SOURCE | CALLPENTA | PENTA402 | Pgm to call penta | | | |
| QGPL | COSTDATA | *FILE | 7/25/95 | QSECOFR | QTEMP | DDSOURCE | DDPF52 | PENTA402 | | | | |
| QGPL | DATABORCOM | *PGM | 2/06/97 | QSECOFR | QGPL | QCLSRC | DATABORCOM | PENTA401 | DIAL UP to Databorough | | | |
| QGPL | DATNAM | *PGM | 7/02/97 | QSECOFR | TOOLS | SOURCE | DATNAM | PENTA401 | Get month and day names f | | | |
| QGPL | DBA | *CMD | 7/22/94 | QSECOFR | ENVIRO | DBASRC | DBA | PENTA402 | The Database Administrato | | | |

Option 9 Missing Object Source

This report lists the objects on your system that do not have the source they were compiled from. For each compiled object, it identifies the name of the source file and member used to compile it. If the source file and member did not exist on your system, it would be difficult to recreate that object.

Selection criteria:

Library, *ALL, Gen*, *USRLIBL

Select the individual library, *ALL for all libraries, Gen* for generic library selection, or *USRLIBL to run the report for libraries in your library list. If you choose to reload the reporting database, the reload will use this library designation.

| | | | | | | | | | |
|--------------------------|------------|----------|-----------------------|---------|----------|----------|------------|---------------------|--------------------------|
| AACL330M | | | Missing Object Source | | | | | 20:18:11 2/05/98 PA | |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY : QGPL | | | | | | | | | |
| SOURCE | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CHG DATE | OWNER | SRC LIB | SRC FIL | SRC MEMBER | SYSTEM # | OBJECT TEXT |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| QGPL | ASO | *CMD | 4/07/89 | QSECOFR | LXASLIBS | QCMDSRC | ASO | PENTA401 | V-AS9.3 (c) PENTA 1991 |
| QGPL | BLCRTCLT | *CMD | 7/07/97 | QSECOFR | PENBLLIB | SOURCE | BLCRTCLT | PENTA401 | V-BL1.3 (c) 1997 PentaSa |
| QGPL | COSTDATA | *FILE | 7/25/95 | QSECOFR | QTEMP | DDSOURCE | DDPF52 | PENTA402 | |
| QGPL | DBA | *CMD | 7/22/94 | QSECOFR | ENVIRO | DBASRC | DBA | PENTA402 | The Database Administrat |
| QGPL | DIALJBA | *CMD | 6/18/91 | RFL | JBAC#S2 | QCMSRRC | DIALAGENT | PENTA401 | dial up agent |
| QGPL | DROPECSLIN | *CMD | 5/14/91 | RFL | JBAC#S2 | QCMSRRC | DROPECSLIN | PENTA401 | drop ECS line |
| QGPL | DXLIBL | *PGM | 6/13/95 | QSECOFR | QGPL | QCLSRC | DXLIBL | PENTA402 | Library List for Elite: |
| QGPL | ELITESP | *PGM | 1/16/97 | QSECOFR | QTEMP | QCLSRC | ELITESP | PENTA401 | Controller Description f |
| QGPL | FPLIBL | *CMD | 2/07/96 | QSECOFR | DEVELOP | QCMSRRC | FPLIBL | PENTA401 | FormsPlus/400 Build Libr |
| QGPL | FPLIBL | *PGM | 2/07/96 | QSECOFR | DEVELOP | QCLSRC | FPLIBL | PENTA401 | FormPlus/400 Build Libra |
| QGPL | FPMAIN | *CMD | 7/01/93 | QSECOFR | FPLUS | QCMSRRC | FPMAIN | PENTA401 | Start FormsPlus and goto |
| QGPL | FPMAINCL | *PGM | 2/29/96 | QSECOFR | DEVELOP | QCLSRC | FPMAINCL | PENTA401 | Setup Library list and g |
| QGPL | FRED | *FILE | 8/21/96 | QSECOFR | QTEMP | DDSOURCE | DDPF52 | PENTA401 | |

Option 10 Object Usage

This report is used to find out which objects are being accessed on a regular basis or which objects are not being used at all. If you have an object that has not been used in the last year, you might consider moving it to an archive library or save it to tape and delete it. This utility is a great tool for keeping your system clean of unused objects. First, you should reset the usage counts on your system (Option 5 on the Load Database Menu). Then, over time, you can track the usage of each object by using this report.

Date Filter

Specify a date to exclude any objects that have a “last used date” greater than the specified date.

| | | | | | | | | | | |
|---------------------|-----------|-------|--------------|-----------|------------|-----------|---------|-------------------------|--|------|
| AACL33OC | | | Object Usage | | | | | 8:58:52 1/29/98 | | PAGE |
| SELECTION CRITERIA: | | | | | | | | | | |
| LIBRARY | | | : QGPL | | | | | | | |
| DATE FILTER | | | : 12/01/97 | | | | | | | |
| LIBRARY | OBJECT | TYPE | CHANGE DATE | LAST USED | RESET DATE | USAGE CNT | OWNER | OBJECT TEXT | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | |
| QGPL | AASECM01 | *FILE | 10/21/97 | 10/21/97 | 0/00/00 | 1 | QSECOFR | Outfile for journal ent | | |
| QGPL | AAUSRMSG | *MSGF | 8/08/97 | 8/08/97 | 0/00/00 | 1 | QSECOFR | AA user messages | | |
| QGPL | AA2 | *OUTQ | 1/10/98 | 4/01/96 | 0/00/00 | 4 | QSECOFR | | | |
| QGPL | ACCOUNT | *JOBQ | 1/10/98 | 0/00/00 | 0/00/00 | 0 | QSECOFR | | | |
| QGPL | ASCUST9 | *PGM | 3/19/97 | 3/19/97 | 0/00/00 | 1 | QSECOFR | Sample Custom Program | | |
| QGPL | ASO | *CMD | 6/24/97 | 0/00/00 | 0/00/00 | 0 | QSECOFR | V-AS9.3 (c) PENTA 1991 | | |
| QGPL | AXISLAND | *OUTQ | 1/10/98 | 9/08/97 | 0/00/00 | 1 | QSECOFR | | | |
| QGPL | AXIS2 | *OUTQ | 1/10/98 | 9/08/97 | 0/00/00 | 1 | QPGMR | | | |
| QGPL | BLCRTCLT | *CMD | 1/15/98 | 0/00/00 | 0/00/00 | 0 | QSECOFR | V-BL1.3 (c) 1997 PentaS | | |
| QGPL | CALLPENTA | *PGM | 3/20/96 | 0/00/00 | 0/00/00 | 0 | QSECOFR | Pgm to call penta | | |
| QGPL | CGIDEV | *FILE | 7/11/96 | 8/06/97 | 0/00/00 | 2 | QPGMR | | | |
| QGPL | COLOR | *OUTQ | 1/10/98 | 4/17/97 | 0/00/00 | 1 | QSECOFR | | | |
| QGPL | COMMSRC | *FILE | 3/20/96 | 9/10/96 | 0/00/00 | 10 | QSECOFR | communication programs | | |

Option 11 Object Authority By Object

This report lists the authority for each object within the specified libraries.

Because certain objects provide access to system functions, an auditor might want to see the authorities for these objects.

| | | | | | | | | | | | | | | | | | |
|----------------------------------|-----------|------------------------------------|--------------|------------------|---------|----------|----------|----------|-------|-------|-------|-------|-------|-------|-------|-----------|-----------|
| AAQYOA | | Object Authority by Library | | | | | | | | | | | | | | | |
| | | QUERY NAME AAQYOA | | | | | | | | | | | | | | | |
| | | LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | | |
| | | FILE | | LIBRARY | | MEMBER | | FORMAT | | | | | | | | | |
| | | AAOUT | | QTEMP | | AAOBJAUT | | QSYDSAUT | | | | | | | | | |
| | | DATE | | 01/29/98 | | | | | | | | | | | | | |
| | | TIME | | 10:18:04 | | | | | | | | | | | | | |
| Report Selection Libraries: QGPL | | | | | | | | | | | | | | | | | |
| 01/29/98 10:18:04 | | AAQYOA Object Authority By Library | | | | | | | | | | | | | | | |
| | | PAGE 1 | | | | | | | | | | | | | | | |
| Library | Object | Obj Type | User Profile | Object Authority | Obj Opr | Obj Mgt | Obj Exst | Obj Alt | Ref | Read | Add | Upd | Dlt | Exc | Mgt | Auth List | Obj Owner |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| QGPL | AACL33CAO | *FILE | *GROUP | *ALL | X | X | X | X | X | X | X | X | X | X | | *NONE | QSECOFR |
| | | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE | QSECOFR |
| | | | ALE | *ALL | X | X | X | X | X | X | X | X | X | X | | *NONE | QSECOFR |
| | | | DAS | *ALL | X | X | X | X | X | X | X | X | X | X | | *NONE | QSECOFR |
| | | | GCG | *ALL | X | X | X | X | X | X | X | X | X | X | | *NONE | QSECOFR |
| | | | GDG | *ALL | X | X | X | X | X | X | X | X | X | X | | *NONE | QSECOFR |
| | | | GTB | *ALL | X | X | X | X | X | X | X | X | X | X | | *NONE | QSECOFR |

Option 12 Object Authority by User

This report lists the authorities for each object within the specified libraries and is sorted by library and user profile. Because certain objects provide access to system functions, an auditor might ask which users have access to what programs.

| | | | | | | | | | | | | | |
|--|----------|-----------|-------|--------------------------------|------|---------|-------|----------|-----|----------|--------|-------|---------|
| Report of Object Authority by User Profile | | | | | | | | | | | | | |
| | | | | QUERY NAME AAQY02 | | | | | | | | | |
| | | | | LIBRARY NAME PSAUDIT | | | | | | | | | |
| | | | | FILE | | LIBRARY | | MEMBER | | FORMAT | | | |
| | | | | AAOUT | | QTEMP | | AAOBJAUT | | QSYDSAUT | | | |
| | | | | DATE 02/06/98 | | | | | | | | | |
| | | | | TIME 09:47:31 | | | | | | | | | |
| Report Selection Libraries: QGPL | | | | | | | | | | | | | |
| Object Authority Report | | | | | | | | | | | | | |
| 02/06/98 | 09:47:31 | | | | | | | | | | | | PAGE |
| LIBRARY | USER | OBJECT | TYPE | OBJECT | OBJ | OBJ | OBJ | READ | ADD | UPDATE | DELETE | AUTL | OBJECT |
| | | | | AUTHORITY | OPER | MAN | EXIST | | | | | MAN | OWNER |
| QGPL | *ADOPT | AASECM01 | *FILE | USER DEF | | X | X | | | | | *NONE | QSECOFR |
| | | AAUSRMSG | *MSGF | USER DEF | | X | X | | | | | *NONE | QSECOFR |
| | | AA2 | *OUTQ | USER DEF | | X | X | | X | X | X | *NONE | QSECOFR |
| | | ALOG | *CMD | USER DEF | | X | X | | | | | *NONE | QSECOFR |
| | | ASCUST9 | *PGM | USER DEF | | X | X | | | | | *NONE | QSECOFR |
| | | ASO | *CMD | *ALL | X | X | X | X | X | X | X | *NONE | QSECOFR |
| | | AXISLAND | *OUTQ | USER DEF | | X | X | | X | X | X | *NONE | QSECOFR |
| | | BGNRFPJOB | *PGM | USER DEF | | X | X | | | | | *NONE | QSECOFR |

Option 13 Display Libraries Loaded

This option will display the list of libraries loaded in the Object and Library information reporting database files. There is no prompt for this interactive option.

| | | | | | | | | | | | | | |
|----------------------------|-----------|--|--|---------------------------|--|--|--|--|--|--|--|--|--|
| Display Report | | | | | | | | | | | | | |
| Query | | | | PSAUDIT/AAQYOLL | | | | | | | | | |
| Position to line | | | | | | | | | | | | | |
| Line | | | | Report width | | | | | | | | | |
| | | | | Shift to column | | | | | | | | | |
| Library Name | | | | | | | | | | | | | |
| 000001 | #CGULIB | | | | | | | | | | | | |
| 000002 | #COBLIB | | | | | | | | | | | | |
| 000003 | #DFULIB | | | | | | | | | | | | |
| 000004 | #DSULIB | | | | | | | | | | | | |
| 000005 | #LIBRARY | | | | | | | | | | | | |
| 000006 | #RPGLIB | | | | | | | | | | | | |
| 000007 | #SDALIB | | | | | | | | | | | | |
| 000008 | #SEULIB | | | | | | | | | | | | |
| 000009 | @CSCOGIN | | | | | | | | | | | | |
| 000010 | AAITCTL | | | | | | | | | | | | |
| 000011 | AAITLIB | | | | | | | | | | | | |
| 000012 | AAIT00001 | | | | | | | | | | | | |
| 000013 | AAIT00002 | | | | | | | | | | | | |
| 000014 | ACTF001 | | | | | | | | | | | | |
| 000015 | ACTFGMS | | | | | | | | | | | | |
| 000016 | AMMMOD | | | | | | | | | | | | |
| 000017 | AMMMODNEW | | | | | | | | | | | | |
| 000018 | AM2000 | | | | | | | | | | | | |
| 000019 | ANICO | | | | | | | | | | | | |

Option 14 Changed Objects

This report will list the changed objects on your system, excluding data files. Data files typically change daily. Most other objects do not change as often, especially in a production environment.

| | | | | | | | | | | | | | |
|----------------------------------|----------|----------|----------|-----------------|---------|---------|------------|----------|-------------|---------|--|------|--|
| AACL33CO | | | | Changed Objects | | | | 9:53:48 | | 7/13/99 | | PAGE | |
| SELECTION CRITERIA: DEFAULT | | | | | | | | | | | | | |
| LIBRARY : PSAUDIT | | | | | | | | | | | | | |
| FROM DATE : 06/01/1999 | | | | | | | | | | | | | |
| TO DATE : 06/30/1999 | | | | | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CHG DATE | OWNER | SRC LIB | SRC FIL | SRC MEMBER | SYSTEM # | OBJECT TEXT | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | | |
| EHD | AASECM01 | *FILE | 06/05/99 | APC | EHD | QDDSSRC | AADRCM01 | PENTA401 | | | | | |
| EHD | AASECM01 | *FILE | 06/05/99 | APC | EHD | QDDSSRC | AADRCM01 | PENTA401 | | | | | |
| LIBRARY TOTAL: | | 2 | | | | | | | | | | | |
| TOTAL OBJECTS CHANGED: | | 2 | | | | | | | | | | | |
| CLS | AASECM01 | *FILE | 06/05/99 | APC | CLS | QDDSSRC | AADRCM01 | PENTA401 | | | | | |
| CLS | AASECM01 | *FILE | 06/05/99 | APC | CLS | QDDSSRC | AADRCM01 | PENTA401 | | | | | |
| LIBRARY TOTAL: | | 2 | | | | | | | | | | | |
| TOTAL OBJECTS CHANGED: | | 2 | | | | | | | | | | | |

Option 15 Object Creator Analysis

This report lists, by object, creator, and name, all objects on the system. It provides general information about each object including the object type, attribute, size, creation date and time, system created on, owner, if the object is damaged, and the last time the object was used.

Note

Not all objects have an object creator (i.e. some IBM supplied system domain objects) and these are listed first on the report.

| ANALYSIS OF OBJECT CREATOR | | | | | | | | | | |
|-------------------------------------|------------|------------|---------|-----------|----------|------------|----------|----------|---------|----------|
| AARP67 CREATOR | OBJECT | LIBRARY | TYPE | ATTRIBUTE | SIZE (B) | CRT DATE | CRT TIME | CRT SYS | OWNER | Page |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== |
| | ACTPEDAT | RMSMODSSRC | *DTAARA | | 4,096 | 10/03/1991 | 8:34:38 | | APC | NO 06/10 |
| | ACTPEDAT | RMSMOD2SRC | *DTAARA | | 4,096 | 10/03/1991 | 8:34:38 | | APC | NO 03/28 |
| | ADBFRT | DBADMIN | *FILE | PTF | 4,096 | 04/06/1994 | 22:28:28 | | QPGMR | NO n/a |
| | ADDMER | RMSUT# | *CMD | | 4,096 | 11/16/1988 | 10:12:10 | | APC | NO 07/06 |
| | ADDMER | RMSUT#TCE | *CMD | | 4,096 | 11/16/1988 | 10:12:10 | | APC | NO 07/15 |
| | ADDMBRC | RMSUT# | *PGM | | 40,960 | 05/01/1991 | 5:53:21 | | APC | NO n/a |
| | ADDPDLICI | QSYSV3R1M0 | *CMD | CLP | 4,096 | 12/12/1996 | 22:18:02 | 00000000 | QSYS | NO n/a |
| *IBM | ADDPDLICI | QSYSV3R2M0 | *CMD | | 4,096 | 01/14/1997 | 4:50:19 | 00000000 | QSYS | NO n/a |
| *IBM | ADDPDLICI | QSYSV3R6M0 | *CMD | | 4,096 | 01/12/1997 | 16:58:40 | 00000000 | QSYS | NO n/a |
| *IBM | ADDPDLICI | QSYSV3R7M0 | *CMD | | 4,096 | 01/24/1997 | 2:09:21 | 00000000 | QSYS | NO n/a |
| CLS | AACL11 | PSATRAV | *PGM | CLP | 53,248 | 10/03/1998 | 21:37:44 | PENTA401 | QSECOFR | NO n/a |
| CLS | AACL110 | PSAUDIT | *PGM | CLP | 77,824 | 06/10/1998 | 10:25:45 | PENTA401 | QPGMR | NO 08/10 |
| CLS | AACL200 | PSAUDIT | *PGM | CLLE | 86,016 | 06/18/1998 | 18:14:45 | PENTA401 | QSECOFR | NO n/a |
| CLS | AACL2000 | PSAUDIT | *PGM | CLLE | 65,536 | 06/08/1998 | 13:28:58 | PENTA401 | QPGMR | NO n/a |
| CLS | AACL2002 | PSAUDIT | *PGM | CLLE | 77,824 | 06/11/1998 | 12:50:54 | PENTA401 | QSECOFR | NO n/a |
| Y2K227 | TABPOPRINT | Y2K227 | *FILE | PF | 16,384 | 01/05/2000 | 14:10:06 | PENTA420 | Y2K227 | NO 01/05 |
| Y2K227 | TABY2K227P | QSYS | *LIB | PROD | 73,728 | 03/26/1998 | 9:21:57 | PENTA420 | Y2K227 | NO n/a |
| Y2K227 | TABY2K227P | TABY2K227P | *OUTQ | | 24,576 | 03/26/1998 | 9:22:17 | PENTA420 | Y2K227 | NO 12/30 |
| Statistics: 18 objects using 540 KB | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | |

Option 20 More Object Authority Reports

| | | | |
|-------|---------------------------------|------------|----------------|
| PA121 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | More Object Authority Reports | QPADEV000Q | Time: 16:25:35 |

Select one of the following:

- 1 Programs that Adopt QSECOFR Auth
- 2 Objects Owned by QSECOFR
- 3 Object Auth for Sensitive Commands
- 4 Authority Lists and Specific Auth
- 5 Authorization Lists (Excludes Q*)
- 6 Job Descriptions and Authorities
- 7 Commands Allowed For Limited Users
- 8 Pgms That Adopt QSECOFR Like Auth
- 9 Subsystem General Information
- 10 Subsystem Routing Entries
- 11 Subsystem Workstation Entries
- 12 Subsystem Autostart Job Entries
- 13 Subsystem Prestart Job Entries
- 14 Subsystem Communication Entries

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cnd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

This menu shows additional reports which are available.

Option 1 Programs That Adopt QSECOFR Authority

This option produces two reports which can be used to identify programs that adopt the authority of QSECOFR user profile, but do not have *EXCLUDE authority for user *PUBLIC.

Use the first report (Programs That Adopt QSECOFR Authority), which excludes system domain objects (usually programs in the Q* libraries, except QGPL), jointly with the second report (Authorities to Programs that Adopt QSECOFR) to identify programs that give a user the authority of the program owner. This also includes the special authorities of *ALLOBJ and SECADM, if applicable, while the program is running.

Note

Authorities to Programs that Adopt QSECOFR report is automatically generated when you run Programs That Adopt QSECOFR Authority.

This report may run approximately 15 to 45 minutes.

| | | | | | | | | | | | | | | | | |
|-------------|----------|------------|-------------|---|-------------------------------------|-----------|--|---------------|--|--|--|--|--|---------|---|--|
| 06/18/98 | 11:48:17 | AAQY02 | | Programs That Adopt the QSECOFR Authority | | | | | | | | | | PAGE | 1 | |
| | | | | Omitting Programs in the *SYSTEM Domain | | | | | | | | | | | | |
| System Name | Object | Library | Object Type | Program ATTR | Text Description | | | | | | | | | | | |
| PENTA401 | AACLPC | | *PGM | | | | | | | | | | | | | |
| PENTA401 | QCGEXIT1 | #CGULIB | *PGM | CLP | | | | | | | | | | | | |
| PENTA401 | QDZEXIT1 | #DFULIB | *PGM | CLP | | | | | | | | | | | | |
| PENTA401 | QSUEXTED | #DSULIB | *PGM | CLP | | | | | | | | | | | | |
| PENTA401 | QSDEXIT1 | #SDALIB | *PGM | CLP | | | | | | | | | | | | |
| PENTA401 | QSUEXTSE | #SEULIB | *PGM | CLP | | | | | | | | | | | | |
| PENTA401 | XDC0000 | BIGNXDUSR | *PGM | CBL | Move Document Text | | | | | | | | | | | |
| PENTA401 | XDC0001 | BIGNXDUSR | *PGM | CBL | Retrieve New Form | | | | | | | | | | | |
| PENTA401 | XDC2000 | BIGNXDUSR | *PGM | CBL | Resequence Move Records | | | | | | | | | | | |
| PENTA401 | XDM0000 | BIGNXDUSR | *PGM | CLP | Document Reformat Driver | | | | | | | | | | | |
| PENTA401 | XDM0001 | BIGNXDUSR | *PGM | CLP | Document Reformat | | | | | | | | | | | |
| PENTA401 | XDM0100 | BIGNXDUSR | *PGM | CLP | Document Reformat Driver - Print | | | | | | | | | | | |
| PENTA401 | XDM0110 | BIGNXDUSR | *PGM | CLP | Document Reformat - Print | | | | | | | | | | | |
| PENTA401 | XDM0200 | BIGNXDUSR | *PGM | CLP | Document Reformat Driver - No Print | | | | | | | | | | | |
| PENTA401 | XDM0210 | BIGNXDUSR | *PGM | CLP | Document Reformat - No Print | | | | | | | | | | | |
| | | | | | | | | | | | | | | More... | | |
| F3=Exit | | F12=Cancel | | F19=Left | | F20=Right | | F24=More keys | | | | | | | | |

| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------|----------|------------|---------|------------------|---------|-----------|---------|---------------|---------|----------|------|-----|-----|-----|-----|--|---------------|--|--|--|--|--|--|--|--|------|---|
| 06/18/98 | 11:48:25 | AAQY052 | | | | | | | | | | | | | | Authorities to Programs that Adopt QSECOFR | | | | | | | | | | PAGE | 1 |
| System Name | Program | Library | User | Object Authority | Obj Opr | Obj Mgt | Obj Ext | Obj Alt | Obj Ref | Autl Mgt | Read | Add | Upd | Dlt | Exe | Authority List | Primary Group | | | | | | | | | | |
| PENTA401 | QCGEXIT1 | #CGULIB | *GROUP | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE | | | | | | | | | | |
| PENTA401 | QCGEXIT1 | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE | *NONE | | | | | | | | | | |
| Count for Library | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COUNT 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PENTA401 | QDZEXIT1 | #DFULIB | *GROUP | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE | | | | | | | | | | |
| PENTA401 | QDZEXIT1 | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE | *NONE | | | | | | | | | | |
| Count for Library | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COUNT 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PENTA401 | QSUEXTED | #DSULIB | *GROUP | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE | | | | | | | | | | |
| PENTA401 | QSUEXTED | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE | *NONE | | | | | | | | | | |
| Count for Library | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COUNT 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PENTA401 | QSDEXIT1 | #SDALIB | *GROUP | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE | | | | | | | | | | |
| PENTA401 | QSDEXIT1 | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE | *NONE | | | | | | | | | | |
| Count for Library | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| COUNT 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| More... | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F3=Exit | | F12=Cancel | | F19=Left | | F20=Right | | F24=More keys | | | | | | | | | | | | | | | | | | | |

Option 2 Objects Owned by QSECOFR

The number of user objects owned by QSECOFR should be kept to a minimum. A member of the QSECOFR group profile should own the objects instead of QSECOFR. Is the object ownership by QSECOFR justified?

The report will also include objects owned by QSRV user profile, if any, and there should be none.

All objects in the Q* libraries are omitted with the exception of QGPL.

This option may run approximately 60 minutes.

| 01/29/98 18:11:00 AAQY11 | | | Object Owned by QSECOFR | | PAGE 1 |
|--------------------------|---------|------------|---|------------------|----------|
| | | | Omitting 'Q*' Libraries, but including QGPL | | |
| System | Library | Object | Obj Type | Authority Holder | Owned By |
| PENTA401 | #COBLIB | #CB00 | *PGM | | QSECOFR |
| | | QPZA000001 | *PGM | | QSECOFR |
| | | QPZA000002 | *PGM | | QSECOFR |
| | | QPZA000007 | *PGM | | QSECOFR |
| | | QPZA000008 | *PGM | | QSECOFR |
| | | QSBALL0C | *PGM | | QSECOFR |
| | | QSBLLDDT | *PGM | | QSECOFR |
| | | QSBCL | *PGM | | QSECOFR |

Option 3 Object Auth for Sensitive Commands

This report shows the authorities for each command deemed as sensitive by NetIQ and security experts. The report includes commands that are duplicates of system commands and application programming interface (API) programs. Look for commands that have *PUBLIC authorized.

The list of sensitive commands is contained in the AASENCMD file and can change from release to release. To access this list, type the following command on the command line, and press ENTER.

RUNQRY *N PSAUDIT/AASECMD

This report may run from 45 minutes to 3 hours.

| | | | | | | | | | | | | | | | | | | | |
|-----------|------------|--|----------|----------|-----------|------|-----|-----|-----|-----|------|------|-----|-----|-----|-------|-----------|---------|-------|
| 01/29/98 | 18:31:16 | AAQY10 Authorities to Sensitive Commands | | | | | | | | | | | | | | | PAGE | | |
| Program | Command | Library | System | User | Object | Obj | Obj | Obj | Obj | Obj | Autl | Read | Add | Upd | Dlt | Exc | Authority | Primary | |
| Processed | | | | Profile | Authority | Obj | Obj | Ext | Alt | Ref | Mgt | | | | | | List | Group | |
| LMD006 | QCMD | QSYS | PENTA401 | QSYS | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE | |
| | | QSYS | PENTA401 | QSRV | *CHANGE | X | | | | | | X | X | X | X | X | *NONE | *NONE | |
| | | QSYS | PENTA401 | *PUBLIC | *USE | X | | | | | | X | | | | X | *NONE | *NONE | |
| | QSYS | PENTA401 | *ADOPT | USER DEF | | X | X | X | X | X | | | X | X | X | | *NONE | *NONE | |
| | SAVLIB | PAELIB12 | PENTA401 | QSECOFR | *ALL | X | X | X | X | X | | X | X | X | X | X | X | *NONE | *NONE |
| | | PAELIB12 | PENTA401 | *PUBLIC | *ALL | X | X | X | X | X | | X | X | X | X | X | X | *NONE | *NONE |
| | | SAVLIB_C | PAELIB12 | PENTA401 | QSECOFR | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE |
| | SAVLIB_C | PAELIB12 | PENTA401 | *PUBLIC | *CHANGE | X | | | | | | X | X | X | X | X | X | *NONE | *NONE |
| | | PAELIB12 | PENTA401 | *ADOPT | USER DEF | | X | X | X | X | X | | | X | X | X | | *NONE | *NONE |
| | | PAELIB12 | PENTA401 | QSECOFR | *ALL | X | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE |
| LMD007 | SAVMRGSVAF | PAELIB12 | PENTA401 | QSECOFR | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE | |
| | | PAELIB12 | PENTA401 | *PUBLIC | *ALL | X | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE |
| | | PAELIB12 | PENTA401 | QSECOFR | *ALL | X | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE |
| | SAVOBJ | PAELIB12 | PENTA401 | QSECOFR | *ALL | X | X | X | X | X | | X | X | X | X | X | X | *NONE | *NONE |
| | | PAELIB12 | PENTA401 | *PUBLIC | *ALL | X | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE |
| | | SAVOBJ_C | PAELIB12 | PENTA401 | QSECOFR | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE | *NONE |
| PAELIB12 | PENTA401 | *PUBLIC | *CHANGE | X | | | | | | | X | X | X | X | X | *NONE | *NONE | | |

Option 4 Authority Lists and Specific Auth

This report includes the users who are authorized to each Authorization List and shows what authorities the users have to the list. Use this information to help you analyze the sources of object authority on your system.

Look primarily for *PUBLIC access to the sources of object authorization list, since only selected users should have access to them.

| 01/29/98 | 18:32:09 | AAQY06 All Authority Lists and Their Specific Authorities | | | | | | | | | | | | | PAGE | |
|----------|------------|---|-----------|-----------|-----|-----|-----|-----|-----|------|------|-----|--------|--------|------|---------|
| System | Aut | Owner | User | Object | Obj | Obj | Obj | Obj | Obj | Autl | Read | Add | Update | Delete | Exe | Primary |
| Name | List | | | Authority | Opr | Mgt | Ext | Alt | Ref | Mgt | | | | | | Group |
| PENTA401 | LNS400ADM | QSECOFR | QSECOFR | *ALL | X | X | X | X | X | X | X | X | X | X | X | *NONE |
| | | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE |
| | LNS400DTA | QSECOFR | QSECOFR | *ALL | X | X | X | X | X | X | X | X | X | X | X | *NONE |
| | | | LNS400ADM | *CHANGE | X | | | | | | X | X | X | | X | *NONE |
| | LNS400PGM | QSECOFR | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE |
| | | | QSECOFR | *ALL | X | X | X | X | X | X | X | X | X | X | X | *NONE |
| | QAUTO | QPGMR | LNS400ADM | *USE | X | | | | | | X | | | | X | *NONE |
| | | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE |
| | QCQRPSAUTL | QSYS | QPGMR | *ALL | X | X | X | X | X | X | X | X | X | X | X | *NONE |
| | | | REH | *ALL | X | X | X | X | X | | X | X | X | | X | *NONE |
| QD1SRM4 | QD1SRM4 | QD1SRM4 | *PUBLIC | *ALL | X | X | X | X | X | X | X | X | X | X | X | *NONE |
| | | | QSECOFR | *ALL | X | X | X | X | X | X | X | X | X | X | X | *NONE |
| | | | *PUBLIC | *EXCLUDE | | | | | | | | | | | | *NONE |

Option 5 Authorization Lists (Excludes Q*)

This report, which excludes Authorization Lists beginning with the letter 'Q' and lists all the objects secured by each authorization list, should be used jointly with the report of Authorization Lists and Their Specific Authorities.

| 01/29/98 18:32:42 | | AAQY07 | | All Authorization Lists, and the Objects Secured by the List Omitting Authorization Lists Beginning with Q | | | PAGE 1 |
|-------------------|------------|---------|------------|---|---------|--|--------|
| SYSTEM NAME | AUTH. LIST | LIBRARY | OBJECT | TYPE | OWNER | TEXT DESCRIPTION | |
| ===== | | | | | | | |
| PENTA401 | TAACHGBIGP | TAAT00L | CHGBIGPARM | *CMD | QSECOFR | Change big parameter - CHGBIGPARM | |
| | | TAAT00L | RTVBIGPARM | *CMD | QSECOFR | Retrieve big parameter - RTVBIGPARM | |
| | | TAAT00L | TAATMPAC | *PGM | QSECOFR | Change big parameter - CPP for CHGBIGPARM | |
| | | TAAT00L | TAATMPAC2 | *PGM | QSECOFR | Retrieve big parameter - CPP for RTVBIGPARM | |
| | | TAAT00L | TAATMPAR | *PGM | QSECOFR | Change and retrieve big parm - Called by mult pgms | |
| | TAACVTQHST | TAAT00L | CVTQHST | *CMD | QSECOFR | Convert QHST file - CVTQHST | |
| | | TAAT00L | CVTQHST2 | *CMD | QSECOFR | Convert QHST2 - CVTQHST2 | |
| | | TAAT00L | DSPQHST2 | *CMD | QSECOFR | Display QHST2 - DSPQHST2 | |
| | | TAAT00L | MTNQHST2 | *CMD | QSECOFR | Maintain QHST2 - MTNQHST2 | |
| | | TAAT00L | TAAHSTEC | *PGM | QSECOFR | Convert QHST to outfile - CPP for CVTQHST | |
| | | TAAT00L | TAAHSTEC2 | *PGM | QSECOFR | Convert QHST2 - CPP for CVTQHST2 | |
| | | TAAT00L | TAAHSTEC3 | *PGM | QSECOFR | Maintain QHST2 - CPP for MTNQHST2 | |
| | | TAAT00L | TAAHSTEC6 | *PGM | QSECOFR | Display QHST2 - CPP for DSPQHST2 | |
| | | TAAT00L | TAAHSTEC7 | *PGM | QSECOFR | Sub pgm for CVTQHST2 called by TAAHSTEC | |
| | | TAAT00L | TAAHSTEC7 | *PGM | QSECOFR | Convert QHST2 - Sub pgm called by TAAHSTEC | |

Option 6 Job Descriptions and Authorities

This report lists all job descriptions (jobd's) that specify a user profile in the USER parameter of the jobd.

These jobd's must be authorized only to appropriate users, not to user *PUBLIC, so look for jobd's which do not have *EXCLUDE authority for user *PUBLIC. Also, check the report of All User Profiles with Special Authorities for special authorities assigned to the user profile specified on the jobd.

In general, a user cannot submit a job using a jobd which specifies a user profile other than his own unless:

- He is authorized to the jobd, and
- He has object operational authority to the user profile

| 01/29/98 18:34:04 | | AAQY08 | | Listing of Job Descriptions and Their Specific Authorities Only JOBDS with a User Profile specified in USER parameter will be listed on this report. | | | | | | | | | | PAGE 1 | | | |
|-------------------|-----------------|--------------|--------------------|--|---------|------------------|---------|---------|---------|---------|---------|----------|------|--------|--------|--------|-----|
| System Name | Job Description | Library Name | User name on JOBDS | Authority List | User | Object Authority | Obj Opr | Obj Mgt | Obj Ext | Obj Alt | Obj Ref | Autl Mgt | Read | Add | Update | Delete | Exe |
| PENTA401 | AAJOBDS | JMSLIB | JMS | X | JMS | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | QSECOFR | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | EHD | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | *PUBLIC | *EXCLUDE | | | | | | | | | | | |
| | | | | | *ADOPT | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | AAMON | PSAUDIT | PENTAAA | *NONE | MJC | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | SLD | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | ALE | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | GTB | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | GDG | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | JWL | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | GCG | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | KMP | *ALL | X | X | X | X | X | X | X | X | X | X | X |
| | | | | | RSJ | *ALL | X | X | X | X | X | X | X | X | X | X | X |

Option 7 Commands Allowed for Limited Users

This report shows the commands allowed to be entered directly by a user whose profile is set for limited capabilities.

This option may run approximately from 5 to 45 minutes, depending on the Library selection criteria.

| | | | | | | | | | | |
|--------------------------|------------|------------------------------------|---------|-----------|----------|-------|----------|--|------------------|------|
| AACL33AL | PENTA401 | Commands Allowed For Limited Users | | | | | | | 1/30/98 10:51:20 | Page |
| Selection criteria: | | | | | | | | | | |
| Library : *ALL | | | | | | | | | | |
| Library | Command | VCP | VCP Lib | Last Used | Chg Date | Owner | System | Command Text | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | |
| BIGNSEQUEL | BCHEXECUTE | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Execute an SQL query and output to a file in batch | | |
| BIGNSEQUEL | BCHPRINT | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Print query data in batch | | |
| BIGNSEQUEL | BCHREPORT | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Execute a SEQUEL report in batch | | |
| BIGNSEQUEL | BCHGRPTD | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Change report definition | | |
| BIGNSEQUEL | BCHGTBLD | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Change table definition | | |
| BIGNSEQUEL | BCHGVIEW | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Change SEQUEL View Definition | | |
| BIGNSEQUEL | DISPLAY | TBLCHKRR | *LIBL | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Display query data | | |
| BIGNSEQUEL | DSNRREPORT | DSNRCHKRR | *LIBL | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Design report | | |
| BIGNSEQUEL | DSNTABLE | DSNRCHKRR | *LIBL | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Design table CPP | | |
| BIGNSEQUEL | DSNVIEW | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | SEQUEL User Interface | | |
| BIGNSEQUEL | DSPCHARTD | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Display/Print chart description | | |
| BIGNSEQUEL | DSRPTD | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Display report definition | | |
| BIGNSEQUEL | DSFTBLD | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Display report definition | | |
| BIGNSEQUEL | DSFVIEWD | *NONE | | 0/00/00 | 8/02/97 | QSYS | PENTA401 | Display view definition | | |

Option 8 Pgms That Adopt QSECOFR Like Auth

This report lists by program, library, and name, all programs that adopt QSECOFR like authorities. These are program that adopt the authority of the owner when the owner has *ALLOBJ, *AUDIT, *IOSYSCFG, *JOBCTL, *SAVSYS, *SECADM, *SERVICE, and *SPLCTL.

This report uses the two related reports to look for programs which do not have *EXCLUDE authority for user *PUBLIC. Use the first report (Programs That Adopt the QSECOFR Like Authority), which excludes system domain objects, jointly with the second report (Authorities to Programs that Adopt QSECOFR) to identify programs that give a user the authority of the program owner. This also includes the special authorities of *ALLOBJ and *SECADM, if applicable, while the program is running.

| 06/12/00 16:13:07 | | Programs that Adopt QSECOFR type authority Exclude *IBM objects | | | | | | | PAGE |
|-----------------------------------|------------|--|---------------------|-----------------|------------------|------------------|--|--|------|
| Library | Object | Object Type | Object Attribute | Object Owner | Creation Date | Creation Time | Text description | | |
| BSCCDROM10 | BSCBASEA | *SRVPGM | CLE | QSECOFR | 012698 | 193024 | | | |
| BSCCDROM10 | BSCSIGNON | *PGM | CLLE | QSECOFR | 012698 | 193051 | | | |
| CLSTEMP | QINSTAPPTR | *PGM | CLP | CLS | 052600 | 174711 | | | |
| PSATRAV | AACLPC | *PGM | CLP | QSECOFR | 090898 | 131018 | PentaSafe PSATRAV Sft Install Program (LODRUN) | | |
| PSATRAV | AACLPC2 | *PGM | CLP | QSECOFR | 040998 | 160254 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL05 | *PGM | CLP | QSECOFR | 040998 | 160418 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL06 | *PGM | CLP | QSECOFR | 040998 | 160421 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL07 | *PGM | CLP | QSECOFR | 040998 | 230340 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL08 | *PGM | CLP | QSECOFR | 052998 | 100553 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL10 | *PGM | CLLE | QSECOFR | 083198 | 235139 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL11 | *PGM | CLP | QSECOFR | 100398 | 213744 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL14 | *PGM | CLP | QSECOFR | 040998 | 232028 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL15 | *PGM | CLP | QSECOFR | 040998 | 160501 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL16 | *PGM | CLP | QSECOFR | 040998 | 232201 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| PSATRAV | AACL17 | *PGM | CLP | QSECOFR | 040998 | 233346 | PSATravel V5.0 (c) 1998 PentaSafe PSAudit | | |
| RRM2 | TSTSQL3N | *PGM | CLP | JXO | 050500 | 140058 | Test INSERT SQL requests to TS1150R | | |
| RRM2 | TSTSQL3Y | *PGM | CLP | JXO | 050700 | 162457 | Test Select/Insert SQL requests to TS1175R | | |
| RRM2 | TS1161C | *PGM | CLP | JXO | 050500 | 140104 | WRKRMTRQS :Maintain User Profiles | | |
| RRM2 | TS1163C | *PGM | CLP | JXO | 050500 | 140107 | WRKRMTRQS :Maintain Library/Object | | |
| FINAL TOTALS | | | | | | | | | |
| COUNT 889 | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | |

Option 9 Subsystem General Information

This report lists, by subsystem name, general subsystem information.

| AARF85 | | | SUBSYSTEM GENERAL INFORMATION | | | | | | | | | | | 12:58:44 10/16/98 | | Pag |
|-----------------------------------|------------|-----------|-------------------------------|------|-------|---|-----|--------|----|-----|----|--------|---------|-------------------|-----------|---------|
| SBS NAME | SBS LIB | STATUS | SIGN-ON DEVICE FILE | | LNG | 2 | LIB | MAX | JB | CUR | JB | #POOLS | POOL ID | POOL NAME | POOL SIZE | POOL AC |
| DDSBS | PENDDLIB@# | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 1 | 1 | | *BASE | 0 | |
| DDSBS | PSAUDIT | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 1 | 1 | | *BASE | 0 | |
| DDSBS | PSAUDITFWX | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 1 | 1 | | *BASE | 0 | |
| PAE | PAELIB12 | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 1 | 1 | | *BASE | 0 | |
| PSESMD | KVGLIB | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 1 | 1 | | *SHRPOOL1 | 0 | |
| QBASE | QSYS | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 2 | 1 | 1 | | *BASE | 0 | |
| ZASBS | LEXASLIB21 | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 1 | 1 | | *BASE | 0 | |
| ZASBS | PSSECURE | *ACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 1 | 1 | 1 | 1 | | *BASE | 0 | |
| ZDDSBS | PENDDLIB@# | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 2 | 2 | | *BASE | 0 | |
| ZDDSBS | PSATRAV_NU | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 2 | 2 | | *BASE | 0 | |
| ZDDSBS | PSAUDIT | *INACTIVE | QDSIGNON | QSYS | *NONE | | | *NOMAX | 0 | 1 | 2 | 2 | | *BASE | 0 | |
| ===== | | | | | | | | | | | | | | | | |
| Number of entries: | | | 11 | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | | | |

Option 10 Subsystem Routing Entries

This three part report lists by subsystem name, information on all subsystem routing entries. Each routing entry specifies the parameters used to start a routing step for a job. The first part of the report lists the name and library of the program called, as the first program run in the routing step if the program adopts authority. The second part of the report lists all *RTGDTA entries. With *RTGDTA entries, the program name is taken from the routing data that is supplied and matched against the entry.

The third part of the report lists any programs specified in a routing entry that do not exist on the system.

| AARP83 | | | | | | | | | | | | 12:58:34 10/16/98 | Page 1 |
|---------------------------|------------|-----------|----------|---------|---------|-------|------------|----------|----------|----------|--------|-------------------|--------|
| SUBSYSTEM | SBS LIB | PROGRAM | PGM LIB | OWNER | PROFILE | ADOPT | CRT DATE | CRT TIME | SRC FILE | SRC LIB | SRC M | | |
| DDSB | PENDDLIB# | QCL | QSYS | QSYS | User | Yes | 2/15/1996 | 3:51:13 | n/a | n/a | n/a | | |
| DDSB | PENDDLIB# | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| DDSB | PSAUDIT | QCL | QSYS | QSYS | User | Yes | 2/15/1996 | 3:51:13 | n/a | n/a | n/a | | |
| DDSB | PSAUDIT | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| DDSB | PSAUDITFWX | QCL | QSYS | QSYS | User | Yes | 2/15/1996 | 3:51:13 | n/a | n/a | n/a | | |
| DDSB | PSAUDITFWX | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| PAE | PAELIB12 | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| QBASE | QSYS | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| QBATCH | QSYS | QCL | QSYS | QSYS | User | Yes | 2/15/1996 | 3:51:13 | n/a | n/a | n/a | | |
| QBATCH | QSYS | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| QCTL | QSYS | QARDRIVE | QSYS | QSYS | User | Yes | 2/15/1996 | 3:35:56 | n/a | n/a | n/a | | |
| QCTL | QSYS | QCL | QSYS | QSYS | User | Yes | 2/15/1996 | 3:51:13 | n/a | n/a | n/a | | |
| ZALOG | PSAUDITFWX | ALCL80 | PSAUDIT | QSECOFR | Owner | Yes | 9/01/1998 | 0:02:21 | SRCAL | PSSOURCE | ALCL80 | | |
| ZASBS | LEXASLIB# | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| ZASBS | LEXASLIB21 | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| ZASBS | PSSECURE | ASCL08 | PSSECURE | QSECOFR | Owner | Yes | 6/04/1998 | 17:53:07 | SRCAS | PSSOURCE | ASCL08 | | |
| ZASBS | PSSECURE | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| ZDDSB | PENDDLIB# | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| ZDDSB | PSATRAV_NU | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| ZDDSB | PSAUDIT | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| ZDDSB | PSAUDITFWX | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| ZMKSBS | PENMKP1 | MKU992CL | PENMKP1 | QPGMR | User | Yes | 10/19/1996 | 10:51:25 | QCLSRC | PENMKS1 | MKU992 | | |
| ZMKSBS | PENMKP1 | MKU992CLU | PENMKP1 | QPGMR | User | Yes | 9/06/1996 | 13:10:59 | QCLSRC | PENMKS1 | MKU992 | | |
| ZPSD | PSDETECT | QCMD | QSYS | QSYS | User | Yes | 2/15/1996 | 3:56:06 | n/a | n/a | n/a | | |
| Number of entries: | | | | | | | | | | | | 24 | |
| EDS ID#: 11.0 | | | | | | | | | | | | | |
| AARP83 | | | | | | | | | | | | 11:49:54 11/19/98 | Page |
| SUBSYSTEM | SBS LIB | PROGRAM | PGM LIB | OWNER | PROFILE | ADOPT | CRT DATE | CRT TIME | SRC FILE | SRC LIB | SRC M | | |
| QCMN | QSYS | *RTGDTA | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| QIPGSCH | QMPGLIB | *RTGDTA | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| TEST | CLS | *RTGDTA | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| Number of entries: | | | | | | | | | | | | 3 | |
| AARP83 | | | | | | | | | | | | 11:49:54 11/19/98 | Page |
| SUBSYSTEM | SBS LIB | PROGRAM | PGM LIB | OWNER | PROFILE | ADOPT | CRT DATE | CRT TIME | SRC FILE | SRC LIB | SRC M | | |
| ZALOG | LEXALLIB# | ALCL80 | LEXALLIB | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| ZALOG | LEXALLIB21 | ALCL80 | LEXALLIB | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| ZALOG | LEXALSEDG2 | ALCL80 | LEXALLIB | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| Number of entries: | | | | | | | | | | | | 3 | |
| * * * END OF REPORT * * * | | | | | | | | | | | | | |

Option 11 Subsystem Workstation Entries

This report lists, by subsystem name, subsystem workstation job entries and key information about the job description used by each entry. Each entry describes one or more work stations that are controlled by the subsystem. The work stations identified in the workstation entries are allowed to sign on or enter the subsystem and run jobs using the listed job description.

| | | | | | | | | | | | | |
|-----------------------------------|-----------|------------------------------------|--------|---------|----------|---------|-----------|-----------|----------|-------------------|--|------|
| AARP95 | | SUBSYSTEM WORK STATION INFORMATION | | | | | | | | 12:59:57 10/16/98 | | Page |
| NAME ENTRIES | | | | | | | | | | | | |
| JOB DESCRIPTION | | | | | | | | | | | | |
| SBS NAME | SBS LIB | WS NAME | MX ACT | CONTROL | NAME | LIBRARY | USER NAME | OUTQ NAME | OUTQ LIB | ROUTING DATA | | |
| QINTER2 | JMSLIB | DSF01 | *NOMAX | *SIGNON | TEST | JMSLIB | QPGMR | *USRPRF | n/a | QCMDI | | |
| QINTER2 | JMSLIB | QPADEV* | *NOMAX | *SIGNON | TEST | JMSLIB | QPGMR | *USRPRF | n/a | QCMDI | | |
| TEST | CLS | CLS* | 1000 | *SIGNON | CLS | CLS | *RQD | *USRPRF | n/a | QCMDI | | |
| TEST | CLS | HOWABOUT | *NOMAX | *SIGNON | *USRPRF | n/a | n/a | n/a | n/a | n/a | | |
| TEST | CLS | ISITFOUND | *NOMAX | *SIGNON | TEST | CLS | n/a | n/a | n/a | n/a | | |
| QINTER2 | JMSLIB | *ALL | *NOMAX | *SIGNON | *USRPRF | n/a | n/a | n/a | n/a | n/a | | |
| QINTER2 | JMSLIB | *CONS | *NOMAX | *ENTER | *USRPRF | n/a | n/a | n/a | n/a | n/a | | |
| QINTER2 | VERSION23 | *ALL | *NOMAX | *SIGNON | *USRPRF | n/a | n/a | n/a | n/a | n/a | | |
| QINTER2 | VERSION23 | *CONS | *NOMAX | *ENTER | *USRPRF | n/a | n/a | n/a | n/a | n/a | | |
| QPGMR | QSYS | *ALL | *NOMAX | *ENTER | *USRPRF | n/a | n/a | n/a | n/a | n/a | | |
| QSYSBSDD | QSYS | *CONS | *NOMAX | *SIGNON | QSYSJOB0 | QSYS | *RQD | *USRPRF | n/a | QCMDI | | |
| TEST | CLS | *NONASCII | *NOMAX | *ENTER | QBATCH | QGFL | QPGMR | *USRPRF | n/a | QCMDB | | |
| TEST | CLS | 3179 | *NOMAX | *ENTER | QSYSWRK | QSYS | QPGMR | *USRPRF | n/a | QCMDI | | |
| ===== | | | | | | | | | | | | |
| Number of entries: | | 13 | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |

Option 12 Subsystem Autostart Job Entries

This report lists, by subsystem name, subsystem autostart job entries and key information about the job description used by each entry. These jobs are automatically started when the subsystem is started and use the listed job description.

| | | | | | | | | | | | |
|-----------------------------------|------------|------------|---------------------------------|------------|-----------|-----------|----------|-------------------|--|--------|--|
| AARF96 | | | SUBSYSTEM AUTOSTART JOB ENTRIES | | | | | 13:00:56 10/16/98 | | Page 1 | |
| JOB DESCRIPTION | | | | | | | | | | | |
| SBS NAME | SBS LIB | ASJ NAME | NAME | LIBRARY | USER NAME | OUTQ NAME | OUTQ LIB | ROUTING DATA | | | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | | | |
| PAE | PAELIB12 | AUTOSTART | PAE2 | PAELIBRARN | n/a | n/a | n/a | n/a | | | |
| PAE | PAELIB12 | LIBRARIAN | PAE | PAELIBRARN | n/a | n/a | n/a | n/a | | | |
| PAE | PAELIB12 | LIBRARIANA | PAEA | PAELIBRARN | n/a | n/a | n/a | n/a | | | |
| QBASE | QSYS | QPFRCOL | QPFRCOL | QGCL | QPGMR | *USRPRF | n/a | QCMDI | | | |
| QBASE | QSYS | QSTRUPJD | QSTRUPJD | QSYS | QPGMR | *USRPRF | n/a | QCMDI | | | |
| QCTL | QSYS | QPFRCOL | QPFRCOL | QGCL | QPGMR | *USRPRF | n/a | QCMDI | | | |
| ZASBS | LEXASLIB# | ASO | ASJD02 | LEXASLIB | n/a | n/a | n/a | n/a | | | |
| ZASBS | LEXASLIB21 | ASO | ASJD02 | LEXASLIB | n/a | n/a | n/a | n/a | | | |
| ZASBS | PSSECURE | ASO | ASJD02 | PSSECURE | PENTA | ASOQ01 | PSSECURE | ASOINIT | | | |
| ZMKBS | PENMKP1 | DOWNLOAD | MKJOB01 | PENMKP1 | PENTA | *USRPRF | n/a | DK | | | |
| ZMKBS | PENMKP1 | UPLOAD | MKJOB02 | PENMKP1 | PENTA | *USRPRF | n/a | MK | | | |
| ZPSD | PSDETECT | STRACMON | PSDSTRACT | PSDETECT | QSYSOPR | *USRPRF | n/a | QCMDB | | | |
| ZPSD | PSDETECT | STRALTMON | PSDSTRALT | PSDETECT | QSYSOPR | *USRPRF | n/a | QCMDB | | | |
| ZPSD | PSDETECT | STRNETMON | PSDSTRNET | PSDETECT | QSYSOPR | *USRPRF | n/a | QCMDB | | | |
| ZPSD | PSDETECT | STRPGMON | PSDSTRPGR | PSDETECT | QSYSOPR | *USRPRF | n/a | QCMDB | | | |
| ===== | | | | | | | | | | | |
| Number of entries: | | 15 | | | | | | | | | |
| ===== | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | |

Option 13 Subsystem Prestart Job Entries

This report lists by subsystem name, subsystem prestart job entries and the user profile, under which the prestart job runs when it is not handling a program start request. Prestart jobs may be started when the subsystem is started or with the Start Prestart Jobs (STRPJ) command. If a user profile is sent on a program start request, the profile's password and its authority to the communications device, library and program will be used. However, none of the other attributes of the user profile, such as CURLIB or INLPGM, will be given to the prestart job. If a user profile is not sent on procedure start request, the user profile from the communications entry will be used with the same rules applied.

| | | | | | | | | |
|-----------------------------------|---------|--------------------------------|---------|-------|-------------------|--|--------|--|
| AARF97 | | SUBSYSTEM PRESTART JOB ENTRIES | | | 12:56:54 10/16/98 | | Page 1 | |
| | | -----PRESTART JOB----- | | | | | | |
| SBS NAME | SBS LIB | NAME | LIBRARY | USER | | | | |
| ----- | ----- | ----- | ----- | ----- | | | | |
| QBASE | QSYS | QNPSEVR | QSYS | QUSER | | | | |
| QBASE | QSYS | QOQSESRV | QSYS | QUSER | | | | |
| QBASE | QSYS | QZRCSEVR | QIWS | QUSER | | | | |
| QBASE | QSYS | QZSCSEVR | QIWS | QUSER | | | | |
| QCMN | QSYS | QNPSEVR | QSYS | QUSER | | | | |
| QCMN | QSYS | QOQSESRV | QSYS | QUSER | | | | |
| QCMN | QSYS | QZRCSEVR | QIWS | QUSER | | | | |
| QCMN | QSYS | QZSCSEVR | QIWS | QUSER | | | | |
| QSERVER | QSYS | QPWFSEVR | QSYS | QUSER | | | | |
| QSERVER | QSYS | QZDAINIT | QIWS | QUSER | | | | |
| QSERVER | QSYS | QZDASOINIT | QIWS | QUSER | | | | |
| QSYSWRK | QSYS | QNPSEVR | QSYS | QUSER | | | | |
| QSYSWRK | QSYS | QZHQSESRV | QIWS | QUSER | | | | |
| QSYSWRK | QSYS | QZRCSEVR | QIWS | QUSER | | | | |
| QSYSWRK | QSYS | QZSCSEVR | QIWS | QUSER | | | | |
| QSYSWRK | QSYS | QZSOSIGN | QIWS | QUSER | | | | |
| TEST | CLS | CLSTART | CLS | CLS | | | | |
| TEST | CLS | TEST1 | CLS | END | | | | |
| ===== | | | | | | | | |
| Number of entries: | | 18 | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | |

Option 14 Subsystem Communication Entries

This report lists, by subsystem name, subsystem communication entries. Each communications entry describes one or more communications devices, device types, or remote locations for which the subsystem will start jobs when program start requests are received. This report also show important information about the job description used by each entry.

| AARP65 | | SUBSYSTEM COMMUNICATION ENTRIES | | | | | | | 12:54:45 | 10/16/98 | Page | 1 |
|-----------------------|---------|---------------------------------|----------|-------|----------|-----------------|--------|---------|-----------|-----------|----------|-------------|
| SBS NAME | | SBS LIB | DEV NAME | MODE | DFT USER | JOB DESCRIPTION | | LIBRARY | USER NAME | OUTQ NAME | OUTQ LIB | ROUTING DAT |
| QBASE | QSYS | *ALL | *ANY | *SYS | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| QBASE | QSYS | *ALL | QCASERVR | *NONE | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| QBASE | QSYS | *ALL | QPCSUPP | *SYS | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| QCMN | QSYS | *ALL | *ANY | *SYS | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| QCMN | QSYS | *ALL | QCASERVR | *NONE | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| QCMN | QSYS | *ALL | QPCSUPP | *SYS | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| QSERVER | QSYS | *ALL | QSERVER | *SYS | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| Q1PGSCH | QMPGLIB | Q1PDEV | Q1PMOD | QUSER | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| TEST | CLS | *ALL | *ANY | *NONE | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| TEST | CLS | *APPC | *ANY | *SYS | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| TEST | CLS | OTH* | *ANY | CLS | *NOMAX | CLS | CLS | *RQD | *USRPRF | n/a | QCMDI | |
| TEST | CLS | TEST1 | *ANY | CLS | *NOMAX | TEST | JMSLIB | QPGMR | *USRPRF | n/a | QCMDI | |
| TEST | CLS | TEST1 | TEST | *NONE | *NOMAX | *USRPRF | n/a | n/a | n/a | n/a | n/a | n/a |
| Number of entries: 13 | | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | | |

Chapter 5

Option 3 File/Member Reports Menu

The File/Member Reports menu provides you with reports to help manage the files on your system, as well as show the number of deleted records that use up valuable disk space.

The reports listed on this menu may be run after the file/member information has been loaded to the reporting database (file AAPF30).

You may also load the file/member information at the time a report is run.

Files Menu

This menu is accessed by selecting Option 3 (File/Member Reports Menu) from the Main Menu.

Consult with the vendor before reorganizing files in a software package. Some packages base their processing on the relative record numbers (RRNs) of the records in their files, instead of on file keys.

PA13

PentaSafe Security Technologies
File/Member Reports Menu

CAS
QPADEV0000Q

Date: 6/06/00
Time: 16:28:54

Select one of the following:

1 Files Needing Reorganization

2 File Usage

3 Largest Files (Members)

4 Source Member Changes

5 List of Libraries Loaded

6 New Source Files

7 New Data Files

8 Changed Files

9 File Authority

10 Journalled Files

11 DDM File Information

Enter Option or Function/Type ==> _____

F1=Help

F3=Exit

F6=Messages

F9=Window

F10=Cmd Line

F12=Previous

F13=Attention

F14=Batch Jobs

F18=Reports

Option 1 Files Needing Reorganization

This report is very useful. It identifies and/or reorganize files on your system that need to be reorganized. When a file is reorganized, all of the deleted records are purged. Thus the storage being used by the deleted records is released back to the system.

If you have pre-loaded the database, you only need to select the threshold of percent disorganized or the number of deleted records. If you have not pre-loaded the database or you want to reload the database, select an individual library or *ALL for all libraries in your library list. Then select **Y** for the reload option.

If you select **Y** for Submit Reorg, for each file that is printed on the report, a batch job (with the same submit parameters) will be submitted to reorganize the file.

Note

The reorganized jobs must run in off hours because users cannot access the file when it is being reorganized.

Consult with the vendor before reorganizing files in a software package. Some packages base their processing on the relative record numbers (RRNs) of the files instead of on file keys.

| | | | | | | | | | |
|---------------------------|----------|----------|------------------------------|-----------------|-------------|----------------|---------------------------|---------|-------|
| AACL32FR | | | Files Needing Reorganization | | | | 12:41:33 | 1/30/98 | PAG |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY: *ALL | | | | | | | | | |
| MIN DELETED REC . . : 101 | | | | | | | | | |
| LIBRARY | FILE | MEMBER | CRT DATE | NBR DELETED REC | NBR RECORDS | MBR SIZE BYTES | FILE TEXT | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | ===== |
| IPGAGP3 | APGWATMP | APGWATMP | 12/09/91 | 2,421,305 | 80,317 | 227,974,144 | Temporary File of Program | | |
| IPGAGP3 | APGALTMP | APGALTMP | 7/26/89 | 174,629 | 456 | 20,974,080 | Action List Work | | |
| QSYS | QADBIFLD | QADBIFLD | 4/25/94 | 145,326 | 441,313 | 178,506,240 | Cross Reference physical | | |
| IPGAGP3 | APGSLTMP | APGSLTMP | 9/24/90 | 76,132 | 1,202 | 8,462,848 | Literals Record for Print | | |
| IPGAGP3 | APGSWTMP | APGSWTMP | 2/12/92 | 60,811 | 722 | 5,253,120 | Additional Keywords | | |
| ELTEXI1 | APGALPHY | APGALPHY | 11/07/95 | 56,472 | 16,336 | 8,460,288 | Action List File | | |
| ELTEXPROD | EX08 | EX08 | 1/27/96 | 54,789 | 162,482 | 22,024,192 | Text | | |
| IPGAGP3 | APGSFTMP | APGSFTMP | 6/02/91 | 54,069 | 941 | 6,302,720 | Field Header Record for S | | |
| ELTEXI1 | APGSLPHY | APGSLPHY | 11/07/95 | 42,450 | 9,212 | 5,249,024 | Literals Record for Print | | |
| IPGAGP3 | APG580WK | APG580WK | 7/12/91 | 40,050 | 4 | 5,001,728 | WorkFile for APG580 | | |
| CWCPROD | F0911 | F0911 | 5/24/96 | 38,250 | 135,075 | 100,671,488 | Account Ledger | | |
| ELTEXI1 | APGSWPHY | APGSWPHY | 11/07/95 | 30,260 | 6,968 | 3,151,872 | Additional Keywords | | |
| ELTEXI1 | APGSFPHY | APGSFPHY | 11/07/95 | 26,286 | 4,613 | 3,151,872 | Field Header Record for S | | |

Option 2 File Usage

This report is useful to find out if files are being accessed on a regular basis and which files are not being used at all. If you have a file that uses a great deal of storage and has not been used in the last six months, you might save it to tape and release the storage for other uses. You should first reset the usage counts on your system (Option 5 from the Load Database Menu). Then, over time, you can track the usage of each file by using this report.

When running the report, you can choose to reload the reporting database before the report runs.

| | | | | | | | | | |
|------------------------------|----------------------|-----------|-----------------|-----------|------------|-----------|----------|----------------------------|--|
| AACL32FC | | | File Usage | | | | | 8:59:53 4/02/98 PAG | |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY : QGPL | | | | | | | | | |
| QUERY DATE : 1/01/98 | | | | | | | | | |
| LIBRARY | OBJECT | MEMBER | CHANGE DATE | LAST USED | RESET DATE | USAGE CNT | SYSTEM | OBJECT TEXT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| QGPL | AASECM01QASYAFJE | | 10/21/97 | 10/21/97 | 0/00/00 | 1 | PENTA401 | | |
| QGPL | COMMSRC | SCFGODF | 3/20/96 | 9/10/96 | 0/00/00 | 2 | PENTA401 | config of ODF at customer | |
| QGPL | COMMSRC | SDLTRMT | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | Delete Comm Objects at Cus | |
| QGPL | COMMSRC | SETUPHQ | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | Setup the Penta HQ for sup | |
| QGPL | COMMSRC | SETUPRMT | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | Setup the remote site for | |
| QGPL | COMMSRC | STRPENTA | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | start dial-up to Penta (C | |
| QGPL | COMMSRC | STRPENTAC | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | start line to Penta-CPP (c | |
| QGPL | COMMSRC | VRYPENTA | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | Command to Vary customer s | |
| QGPL | COMMSRC | VRYPENTAC | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | Program to Vary customer s | |
| QGPL | COMMSRC | VRYSUPPTC | 3/20/96 | 3/20/96 | 0/00/00 | 1 | PENTA401 | Program to Vary customer s | |
| QGPL | ENNIS#ANTIENNIS#ANTI | | 10/01/97 | 10/01/97 | 0/00/00 | 1 | PENTA401 | | |
| QGPL | EXTTIEEXTTIE | | | 11/11/97 | 12/17/97 | 0/00/00 | 4 | PENTA401 Diskette Upload | |
| QGPL | FREDDDDPF52 | 8/21/96 | 9/09/960/00/002 | PENTA401 | | | | | |

Date Filter

This date filters (not print) any files that have a “last used date” greater than the filter date.

Option 3 Largest Files (Members)

This report lists those files which are using the most storage on your system. It is different than the largest object report because it will break down the files by member, since some applications use multiple member files. The object report cannot break down a file to the member level.

Selection criteria:

If you have pre-loaded your database, just select the number of file/members you want to report on. If you have not pre-loaded your database, you can select an individual library, *ALL for all libraries, Gen* for generic library selection, or *USRLIBL to run the report for libraries in your library list. Then select Y for the reload option.

| | | | | | | | | | |
|---------------------|------------|------------|-------------------------|-------------|----------------|----------|-----------------------------|---------|------|
| AACL32FL | | | Largest Files (Members) | | | | 14:11:09 | 1/30/98 | PAGE |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY | | | *ALL | | | | | | |
| MAXIMUM NUMBER. . . | | | 100 | | | | | | |
| LIBRARY | FILE | MEMBER | CRT DATE | NBR RECORDS | MBR SIZE BYTES | SYSTEM | FILE TEXT | | |
| ===== | | | | | | | | | |
| IPGAGP3 | APGWATMP | APGWATMP | 12/09/91 | 80,317 | 225,448,448 | PENTA401 | Temporary File of Program F | | |
| LEXALLIB | ALPF01 | ALPF01 | 2/12/92 | 1,070,060 | 170,921,984 | PENTA401 | Contains Log of Users | | |
| | QADBIFLD | QADBIFLD | 4/25/94 | 441,313 | 166,475,776 | PENTA401 | Cross reference physical fi | | |
| PSDATA | ALPF01 | ALPF01 | 11/14/97 | 981,978 | 156,141,568 | PENTA401 | Contains Log of Users | | |
| CWCPROD | F0911 | F0911 | 5/24/96 | 135,075 | 100,671,488 | PENTA401 | Account Ledger | | |
| QUSRSYS | QTMHFLTQ | QJOB154427 | 7/01/97 | 218,853 | 53,479,424 | PENTA401 | | | |
| ELTEXPROD | EX30 | EX30 | 3/21/96 | 113,778 | 43,979,264 | PENTA401 | Shipment Address | | |
| QCPL | CGIDEV | SAV | 7/11/96 | 2,937 | 38,811,648 | PENTA401 | | | |
| EHD | UTOBJP01 | *ALL | 6/11/97 | 73,014 | 38,803,456 | PENTA401 | Outfile member for DSPOBJD | | |
| EHD | UTMBRP01 | *ALLUSR | 11/02/96 | 51,425 | 32,512,000 | PENTA401 | Outfile member for DSPFD TY | | |
| QSPL | Q04079N003 | Q997996970 | 1/15/98 | 7,546 | 31,462,912 | PENTA401 | Spool Data Base Member | | |
| EHD | QHST2 | QHST2 | 8/16/96 | 61,589 | 29,331,456 | PENTA401 | QHST2 file for DSPQHST2 | | |
| QPFERDATA | QAFMDMPT | QAJOBTRC | 5/14/97 | 146,498 | 27,265,024 | PENTA401 | *BLANK | | |

Note

This report does not identify who made the change.

Option 4 Source Member Changes

This report shows which source members have been changed during a specified date range. This is an easy way to monitor your source files for changes.

If you want to print the detail of the changes, specify “Y” for Detail. This option will list the changed lines of code.

Note

This report does not show deleted lines of code.

Specify:

- Date Range
- Libraries to check (*ALL, Gen*, *USRLIBL, Library)

- Detail (Yes, No)
- Reload Database Before Report (Yes, No)

| | | | | | | | | | |
|--------------------------------|---------|------------|-----------------------|-------------|--------------|--------|---|--|----|
| AACL32SC | | | Source Member Changes | | | | 14:25:32 1/30/98 | | PA |
| SELECTION CRITERIA: | | | | | | | | | |
| LIBRARY : *ALL | | | | | | | | | |
| FROM DATE : 12/01/97 | | | | | | | | | |
| TO DATE : 12/31/97 | | | | | | | | | |
| LIBRARY | OBJECT | MEMBER | SOURCE TYPE | CHANGE DATE | # OF RECORDS | MEMBER | TEXT | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | |
| ANICO | QDDSSRC | APTIGG | PF | 12/01/97 | 17 | | Trigger File | | |
| ANICO | QDDSSRC | SLXEMPL1 | LF | 12/21/97 | 20 | | Exemption File | | |
| ANICO | QDDSSRC | SLRATE | PF | 12/05/97 | 18 | | Standard Life Rate Increase File | | |
| ANICO | QDDSSRC | SLRATEL1 | PF | 12/05/97 | 22 | | Rates in Company, Plan, Path, Effective Date | | |
| ANICO | QDDSSRC | SLRATEL2 | LF | 12/08/97 | 23 | | Rates in Company, Plan, Path, From Rate, To R | | |
| ANICO | QDDSSRC | SLR001F | DSPF | 12/21/97 | 132 | | Standard Life Increase Screen | | |
| ANICO | QDDSSRC | SLR010F | DSPF | 12/06/97 | 160 | | AGENT add on file | | |
| ANICO | QRPGSRC | SLA010 | RPG | 12/09/97 | 277 | | Rate Increase (call from AHP110R) | | |
| ANICO | QRPGSRC | SLR001R | RPG | 12/21/97 | 208 | | Rate Increase Update | | |
| ANICO | QRPGSRC | SLR001RSE | RPG | 12/15/97 | 204 | | Rate Increase Update | | |
| ANICO | QRPGSRC | SLR015R | RPG | 12/10/97 | 243 | | Pending Rate Increase | | |
| ANICO | QRPGSRC | SLXTRACTSE | RPG | 12/01/97 | 1,453 | | commission/Production Extract Pgm | | |

Note
This report does not show who made the change.

Option 5 List of Libraries Loaded

This option displays the libraries loaded for the file reports.

| | | | | |
|--|-----------|-----------|---------------------------|--|
| Display Report | | | Report width : | |
| filter : PSAUDIT/AAQYFLL | | | Shift to column | |
| Position to line | | | | |
| Line + 1 + 2 . | | | | |
| | Library | Retrieval | | |
| | | Date | | |
| 000001 | #CGULIB | 980201 | | |
| 000002 | #COBLIB | 980201 | | |
| 000003 | #DFULIB | 980201 | | |
| 000004 | #DSULIB | 980201 | | |
| 000005 | #LIBRARY | 980201 | | |
| 000006 | #RPGLIB | 980201 | | |
| 000007 | #SDALIB | 980201 | | |
| 000008 | #SEULIB | 980201 | | |
| 000009 | #CSCOGIN | 980201 | | |
| 000010 | AAITCTL | 980201 | | |
| 000011 | AAITLIB | 980201 | | |
| 000012 | AAIT00001 | 980201 | | |
| 000013 | AAIT00002 | 980201 | | |
| 000014 | ACTF001 | 980201 | | |
| 000015 | ACTPGMS | 980201 | | |
| 000016 | AMMMOD | 980201 | | |
| 000017 | AMMMODNEW | 980201 | | |
| 000018 | AM2000 | 980201 | | |

Option 6 New Source Files

This report lists the new source files created on your system. In a production environment, new source files should not be created. Program source code files are not created in the normal course of business. The report prompt will ask you what libraries you want to search and date range.

The report lists the:

- Source file and library where created
- User profile that created it
- Date/time
- System name

| | | | | | | | |
|-------------------------------|-------------|------------------|-------------|--------------------|---------|---------|----|
| AACL32NS | | New Source Files | | | 9:49:14 | 2/02/98 | PA |
| SELECTION CRITERIA: | | | | | | | |
| LIBRARY : *ALL | | | | | | | |
| FROM DATE : 1/01/98 | | | | | | | |
| TO DATE : 1/31/98 | | | | | | | |
| LIBRARY | SOURCE FILE | CREATE DATE | CHANGE DATE | FILE TEXT | SYSTEM | | |
| ===== | ===== | ===== | ===== | ===== | ===== | | |
| @CSCOGIN | CLSSRC | 1/02/98 | 1/02/98 | | PENTA40 | | |
| @CSCOGIN | IFSSRC | 1/11/98 | 1/11/98 | | PENTA40 | | |
| @CSCOGIN | SAVSRC | 1/10/98 | 1/10/98 | | PENTA40 | | |
| @CSCOGIN | TPFSRC | 1/24/98 | 1/24/98 | | PENTA40 | | |
| LIBRARY TOTAL: | | 4 | | | | | |
| ANICO | QCLSRC | 1/19/98 | 1/19/98 | | PENTA40 | | |
| LIBRARY TOTAL: | | 1 | | | | | |
| EHD | QPNLSRC | 1/25/98 | 1/25/98 | PANEL GROUP SOURCE | PENTA40 | | |
| EHD | QREXSRC | 1/25/98 | 1/25/98 | REXX SOURCE | PENTA40 | | |
| LIBRARY TOTAL: | | 2 | | | | | |
| BLTEXHK | SOURCE | 1/20/98 | 1/31/98 | TIE Source file | PENTA40 | | |
| LIBRARY TOTAL: | | 1 | | | | | |

Option 7 New Data Files

This report lists the new files created on your system. Generally, new data files are not created in the normal course of business. However, many systems do create work files temporarily. On the report prompt, specify the libraries and date range you want to search.

| | | | | | | |
|----------------------------------|----------|----------------|-------------|-------------------------------------|---------|------|
| AACL32NF | | New Data Files | | 10:27:40 | 7/12/99 | PAGE |
| SELECTION CRITERIA: DEFAULT | | | | | | |
| LIBRARY : PSAUDIT | | | | | | |
| FROM DATE : 06/01/1999 | | | | | | |
| TO DATE : 06/30/1999 | | | | | | |
| LIBRARY | NEW FILE | CREATE DATE | CHANGE DATE | FILE TEXT | | |
| ===== | ===== | ===== | ===== | ===== | | |
| PSAUDIT | AA0500P | 6/01/99 | 7/07/99 | PSA V5.1 (c) 1998 PentaSafe PSAudit | | |
| LIBRARY TOTAL: | | 1 | | | | |
| TOTAL FILES DISPLAYED: | | 1 | | | | |
| PSATRAV | AA0600P | 6/10/ 99 | 7/17/99 | PSA V5.1 (c) 1998 PentaSafe PSAudit | | |
| LIBRARY TOTAL: | | 1 | | | | |
| TOTAL FILES DISPLAYED: | | 1 | | | | |
| PSCOMMON | AA0700P | 6/07/99 | 7/01/99 | PSA V5.1 (c) 1998 PentaSafe PSAudit | | |
| PSCOMMON | AA0800P | 6/09/99 | 7/02/99 | PSA V5.1 (c) 1998 PentaSafe PSAudit | | |
| PSCOMMON | AA0900P | 6/10/99 | 7/02/99 | PSA V5.1 (c) 1998 PentaSafe PSAudit | | |
| LIBRARY TOTAL: | | 1 | | | | |
| TOTAL FILES DISPLAYED: | | 3 | | | | |

The report lists the:

- Data file and library where created
- User profile that created it
- Date/time
- System name

Option 8 Changed Files

This report lists the changed files on your system. In the normal course of business, files are changed daily. The report prompt will ask you what libraries you want to search and a date range.

| | | | | | | | | |
|----------------------------------|----------|-----------|---------------|-------------|--------------|--|---------|------|
| AACL32CF | | | Changed Files | | | 10:36:15 | 7/12/99 | PAGE |
| SELECTION CRITERIA: DEFAULT | | | | | | | | |
| LIBRARY : *ALL | | | | | | | | |
| FROM DATE : 06/01/1999 | | | | | | | | |
| TO DATE : 06/30/1999 | | | | | | | | |
| LIBRARY | OBJECT | MEMBER | SOURCE TYPE | CHANGE DATE | # OF RECORDS | MEMBER TEXT | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | | |
| APIUS | CMDTRK | CMDTRK | | 6/10/99 | 143 | User-defined list of commands to be tracked | | |
| APIUS | SRCSUBC2 | SRCSUBC2 | | 6/15/99 | 4 | Field subset | | |
| LIBRARY TOTAL: | | 2 | | | | | | |
| BTF | FILE1 | FILE1 | | 6/17/99 | 15 | | | |
| BTF | ILEC | TDTAARA | C | 6/08/99 | 80 | read from a data area | | |
| BTF | QMISRC | ADD2TRIG | MI | 6/16/99 | 132 | Add records to TRIGTEST | | |
| BTF | QMISRC | CIPHER | MI | 6/16/99 | 119 | Cipher the password (optimized for short passw | | |
| BTF | QMISRC | CIPHER1 | MI | 6/16/99 | 117 | Cipher the password (general code) | | |
| BTF | QMISRC | COPYFILE | MI | 6/16/99 | 395 | Copy (mbr,file,lib) to (mbr,file,lib) in progr | | |
| BTF | QMISRC | CRACKPWD | MI | 6/16/99 | 571 | Crack Passwords | | |
| BTF | QMISRC | CREATE | MI | 6/16/99 | 71 | Create SHROUDED Object | | |
| BTF | QMISRC | CRTPG | MI | 6/16/99 | 129 | Create program | | |
| BTF | QMISRC | DESTROY | MI | 6/16/99 | 16 | Destroy SHROUDED Object | | |
| BTF | QMISRC | DSPOQTEMP | MI | 6/16/99 | 204 | Display objects in QTEMP | | |
| BTF | QMISRC | DSFSEPT | MI | 6/16/99 | 104 | Display SEPT | | |
| BTF | QMISRC | DSFSYSP | MI | 6/16/99 | 92 | Display SYSP | | |
| BTF | QMISRC | ENCRPWD | MI | 6/16/99 | 121 | Encrypt Password Test | | |
| BTF | QMISRC | EXPLORER | MI | 6/16/99 | 632 | AS/400 Explorer | | |

The report lists the:

- File and library where it exists
- Date/time when last changed
- System name

Option 9 File Authority

This report lists the authority of each file in the selected libraries.

| | | | | | | | | | | | | | | |
|----------------------------------|-----------|-------|---------|----------|--------------------------------|---------|-----|-------|----------|--------|--------|----------|-------|---------|
| File Authority by Library | | | | | | | | | | | | | | |
| | | | | | FILTER NAME AAQYFA | | | | | | | | | |
| | | | | | LIBRARY NAME PSAUDIT | | | | | | | | | |
| | | | | | FILE | LIBRARY | | | MEMBER | FORMAT | | | | |
| | | | | | AAOUT | QTEMP | | | AAOBJAUT | | | QSYDSAUT | | |
| | | | | | DATE 02/02/98 | | | | | | | | | |
| | | | | | TIME 13:39:21 | | | | | | | | | |
| Report Selection Libraries: QGPL | | | | | | | | | | | | | | |
| File Authority Report | | | | | | | | | | | | | | |
| 02/02/98 | 13:39:21 | | | | | | | | | | | | | PAGE |
| LIBRARY | FILE | TYPE | USER | FILE | AUTHORITY | OPER | MAN | EXIST | READ | ADD | UPDATE | DELETE | AUTL | OBJECT |
| | | | | | | | | | | | | | MAN | OWNER |
| QGPL | AACL33CAO | *FILE | *GROUP | *ALL | | X | X | X | X | X | X | X | *NONE | QSECOFR |
| | | | *PUBLIC | *EXCLUDE | | | | | | | | | *NONE | QSECOFR |
| | | | ALE | *ALL | X | X | X | X | X | X | X | X | *NONE | QSECOFR |
| | | | DAS | *ALL | X | X | X | X | X | X | X | X | *NONE | QSECOFR |
| | | | GCG | *ALL | X | X | X | X | X | X | X | X | *NONE | QSECOFR |
| | | | GDG | *ALL | X | X | X | X | X | X | X | X | *NONE | QSECOFR |
| | | | GTB | *ALL | X | X | X | X | X | X | X | X | *NONE | QSECOFR |
| | | | JWL | *ALL | X | X | X | X | X | X | X | X | *NONE | QSECOFR |

Option 10 Journalled Files

This report analyzes the libraries specified for files that are being journaled. A journal can capture the before and after image of a record update in a file. If the journal capturing the data is not managed, the amount of storage used by the journal can be significant.

| | | | | | | | | | | | | | | | | | |
|--------------------------|----------|----------|----------|-----------|--------|------------|----------|----------------------------|-------|------------------|--|--|--|--|----------|---------|-----|
| AACL32FJ | | | | | | | | | | Journalled Files | | | | | 12:18:53 | 2/10/98 | PAG |
| SELECTION CRITERIA: | | | | | | | | | | | | | | | | | |
| LIBRARY : *ALL | | | | | | | | | | | | | | | | | |
| LIBRARY | OBJECT | MEMBER | JOURNAL | LIBRARY | IMAGES | START DATE | SYSTEM | OBJECT | TEXT | | | | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | | | | | | |
| EHD | ALFF08HD | ALFF08 | DDJRN | PSAUDIT | B | 98/02/06 | PENTA401 | Contains Users that have A | | | | | | | | | |
| LIBRARY TOTAL: 1 | | | | | | | | | | | | | | | | | |
| GSSQL | TBL01 | TBL01 | QSQJRN | GSSQL | B | 97/08/06 | PENTA401 | | | | | | | | | | |
| LIBRARY TOTAL: 1 | | | | | | | | | | | | | | | | | |
| JMSLIB | GOLF | GOLF | QAUDJRN | QSYS | B | 97/06/03 | PENTA401 | Golf Database | | | | | | | | | |
| LIBRARY TOTAL: 1 | | | | | | | | | | | | | | | | | |
| QSMU | QANSCRAC | QANSCRAC | QNSCRJRN | QSMU | B | 96/02/15 | PENTA401 | Data Base File for Activit | | | | | | | | | |
| QSMU | QANSCRAN | QANSCRAN | QNSCRJRN | QSMU | B | 96/02/15 | PENTA401 | Data Base File for Activit | | | | | | | | | |
| QSMU | QANSCRCN | QANSCRCN | QNSCRJRN | QSMU | B | 96/02/15 | PENTA401 | Data Base File for Condi | | | | | | | | | |
| QSMU | QANSCRCR | QANSCRCR | QNSCRJRN | QSMU | B | 96/02/15 | PENTA401 | Data Base File for Change | | | | | | | | | |
| QSMU | QANSCRMS | QANSCRMS | QNSCRJRN | QSMU | B | 96/02/15 | PENTA401 | Data Base File for Message | | | | | | | | | |
| LIBRARY TOTAL: 5 | | | | | | | | | | | | | | | | | |
| QSYS | QADBCCST | QADBCCST | QDBJRN | QRECOVERY | A | 96/03/22 | PENTA401 | Constraint Field Usage Inf | | | | | | | | | |
| QSYS | QADBFCST | QADBFCST | QDBJRN | QRECOVERY | A | 96/03/22 | PENTA401 | File Level Constraint Cros | | | | | | | | | |

Option 11 DDM File Information

This two part report lists by file name, information about all DDM files. The first part of the report lists general information about the DDM files, including if the file shares the open data path (SHR), if record format level checking is done (CHK), the name of the remote file as it is known on the target system (which may not actually exist), the remote location name of the target system (RMT LOC), if conversion is protected (PRO), the creation date and time (CRT DATE, TIME), and the description of the file.

Note

A “+” as the last character of the description, indicates that the description was truncated to fit on the report. The second part of the DDM File Information report lists the object authorities for the DDM files.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|------------|-----------|---------|----------------------|-----------|-------|--|---------|-----|-----|-----|-----|-----|-------------------|----------|-----|------------|----------|---|---------------------------|--|--|--|------|--|--|--|--|--|--|
| AARP94 | | | | DDM FILE INFORMATION | | | | | | | | | | 11:59:03 11/19/98 | | | | | | | | | | Page | | | | | | |
| GENERAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FILE | LIBRARY | SHR | CHK | REMOTE FILE | | | | | | | | | | | RMT LOC | PRO | CRT DATE | CRT TIME | | DESCRIPTION | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APO304H1 | ELTEXEDI | No | Yes | ELTEXEDI/API304H1 | | | | | | | | | | | PENTA401 | No | 1/17/1998 | 9:50:42 | | | | | | | | | | | | |
| DDMSND | JOSWAL | No | Yes | JOSWAL/DDMRCV | | | | | | | | | | | PENTA421 | No | 10/27/1998 | 11:00:17 | | DDM to Penta421 | | | | | | | | | | |
| EX20ML | MAL | No | Yes | ELTEXF1/EX20 | | | | | | | | | | | ELITE | No | 1/06/1998 | 18:06:39 | | | | | | | | | | | | |
| LOFSM030L0 | PSDETECT00 | No | Yes | PSDETECT/PSM030L0 | | | | | | | | | | | LONDON | No | 5/26/1998 | 13:48:48 | | PSD V2.0 (c) 1998 PentaSa | | | | | | | | | | |
| PAPSP100L0 | PSDETECT00 | No | Yes | PSDETECT/PSP100L0 | | | | | | | | | | | PARIS | No | 5/26/1998 | 13:49:35 | | PSD V2.0 (c) 1998 PentaSa | | | | | | | | | | |
| SNDTOHK | QGPL | No | Yes | QGPL/QAPZCOVER | | | | | | | | | | | ELITE | No | 1/17/1998 | 11:34:50 | | mal - temporary | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Number of entries: | | | | 6 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| AARP94 | | | | DDM FILE INFORMATION | | | | | | | | | | 11:59:03 11/19/98 | | | | | | | | | | Page | | | | | | |
| AUTHORITIES | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| FILE | LIBRARY | OWNER | P GROUP | AUTH LIST | USER | GROUP | | AUTH | Opr | Mgt | Exs | Alt | Ref | Rd | Add | Upd | Del | Exe | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| APO304H1 | ELTEXEDI | COMMTTEST | *NONE | *NONE | COMMTTEST | | | *ALL | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | |
| | | | | | QPGMR | | | *ALL | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | |
| | | | | | *PUBLIC | | | *ALL | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | |
| DDMSND | JOSWAL | QSECOFR | *NONE | *NONE | QSECOFR | | | *ALL | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | |
| | | | | | *PUBLIC | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| EX20ML | MAL | MAL | *NONE | *NONE | MAL | | | *ALL | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | |
| | | | | | *PUBLIC | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| PAPSP100L0 | PSDETECT00 | QPGMR | *NONE | PSDETECT | QPGMR | | | *ALL | X | X | X | X | X | X | X | X | X | X | X | | | | | | | | | | | |
| | | | | | JMS | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | PSTEST1 | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | EHD | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | PAC | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | GTB | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | SPM | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | TAB | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | SEL | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | JCL | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| | | | | | JXO | | | *CHANGE | X | | | | | | X | X | X | X | X | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Chapter 6

Option 4 Library Reports Menu

The Library Reports Menu provides access to information required to manage all the libraries and directories on your system. The library reports also make it easy to monitor the growth of the libraries and directories on your system.

Prior to using these options, the library information should be loaded using Options 1 or 2 from the Load Database Menu, or at the time the report is run by specifying Reload = Y in the PSAudit Submittal Window. Also, to use library groups (Options 8 and 9), library groups should be created (Option 8) and the data loaded (Reload = Y in PSAudit Submittal Window) when the report is run (Option 9).

This menu is accessed by selecting Option 4 (Library Reports Menu) from the System Auditing and Reporting Menu.

PA14

PentaSafe Security Technologies
Library Reports Menu

CAS
QPADEV0000Q

Date: 6/06/00
Time: 16:32:22

Select one of the following:

1 Library Analysis By Library

2 Library Authority

3 Display Dates of Libraries Loaded

4 New Libraries

5 Libraries Currently in Use

6 Libraries with Authority Granted

7 Libraries in Order of Last Save

8 Work with Library Groups

9 Library Group Analysis

Enter Option or Function/Type ==> _____

F1=Help

F3=Exit

F6=Messages

F9=Window

F10=Cmd Line

F12=Previous

F13=Attention

F14=Batch Jobs

F18=Reports

Option 1 Library Analysis by Library

This report analyzes the size of your libraries. The report gives you the percentage of the size in comparison to the total storage available on your system.

Selection options:

Reload = Y The library selected is used only when reloading the library reporting database. If you do not reload the reporting databases, the report will use the data currently in the database.

Library, *ALL, Gen*, *USRLIBL Select the desired libraries to be analyzed by naming the individual library, *ALL for all libraries, Gen* for generic library selection, or *USRLIBL to run the analysis over the libraries in your library list.

Note
Selecting multiple libraries may cause the process to run for several hours.

| | | | | | | | | | | |
|----------------------------|----------|----------------|----------------|---------------------------|-------------|----------|--|----------|---------|-----|
| AARP11 | | | | STORAGE REPORT BY LIBRARY | | | | 18:21:55 | 2/02/98 | PAG |
| SELECTION CRITERIA: | | | | | | | | | | |
| LIBRARY : QGPL | | | | | | | | | | |
| -----CURRENT----- | | | | -----PREVIOUS----- | | | | | | |
| LIBRARY | # OF OBJ | SIZE | % STORAGE | # OF OBJ | SIZE | AUDIT DT | LIBRARY TEXT | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | |
| QGPL | 361 | 230,102,528 | 1.79% | 412 | 618,406,912 | 2/01/98 | General Purpose Library | | | |
| **SYSTEM | 0 | 11,834,797,472 | 92.20% | 0 | 0 | 2/01/98 | OTHER LIBRARIES AND/OR USED BY OPERATING S | | | |
| TOTAL # OF LIBRARIES . . . | | | 1 | | | | | | | |
| TOTAL STORAGE USED . . . | | | 12,064,900,000 | 94% | | | | | | |
| TOTAL UNUSED STORAGE . . . | | | 770,100,000 | 6% | | | | | | |
| TOTAL STORAGE | | | 12,835,000,000 | | | | | | | |

Option 2 Library Authority

This report analyzes the authority of the libraries on your system. The report lists the library and the User Profiles that have access to that Library.

| | | | | | | | | | | | | | | | |
|----------------------------------|----------|-----------|------|--------|-----|-------|-----|------|-----|--------|--------|--------|------------|---------|--------|
| Report of Library Authority | | | | | | | | | | | | | | | |
| QUERY NAME. AAQYLA | | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER | | | | | | | | | | | | | | | |
| AALIBAUT QTEMP AALIBAUT | | | | | | | | | | | | | | | |
| DATE 02/02/98 | | | | | | | | | | | | | | | |
| TIME 18:22:11 | | | | | | | | | | | | | | | |
| Report Selection Libraries: QGPL | | | | | | | | | | | | | | | |
| Library Authority | | | | | | | | | | | | PAGE 1 | | | |
| 02/02/98 | 18:22:11 | LIBRARY | USER | OBJECT | OBJ | OBJ | OBJ | READ | ADD | UPDATE | DELETE | AUTL | AUTH. LIST | LIBRARY | SYSTEM |
| | | AUTHORITY | | OPER | MAN | EXIST | | | | | MAN | | OWNER | NAME | |
| | | | | | | | | | | | | | | | |
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Option 3 Display Dates of Libraries Loaded

This option displays the libraries that have been loaded for the library reports. The list is sorted by library and shows the load date next to the library. This date information is also listed on the library analysis in the far right hand column under the audit date column.

| | | | |
|------------------------------|-------------------------|-------------------|---------------------------|
| Display Report | | | |
| Query . . . : PSAUDIT/AAQYLL | | | Report width : |
| Position to line | | | Shift to column |
| Line |1.....2.....3..... | | |
| | Library Name | Library Load Date | |
| 000001 | #CGULIB | 2/08/98 | |
| 000002 | #COBLIB | 2/08/98 | |
| 000003 | #DFULIB | 2/08/98 | |
| 000004 | #DSULIB | 2/08/98 | |
| 000005 | #LIBRARY | 2/08/98 | |
| 000006 | #REGLIB | 2/08/98 | |
| 000007 | #SDALIB | 2/08/98 | |
| 000008 | #SEULIB | 2/08/98 | |
| 000009 | @CSCOGIN | 2/08/98 | |
| 000010 | AAITCTL | 2/08/98 | |
| 000011 | AAITLIB | 2/08/98 | |
| 000012 | AAIT00001 | 2/08/98 | |
| 000013 | AAIT00002 | 2/08/98 | |
| 000014 | ACTF001 | 2/08/98 | |
| 000015 | ACTPGMS | 2/08/98 | |
| 000016 | AGGRECON | 2/08/98 | |
| 000017 | AMFLIB | 2/08/98 | |
| 000018 | AMMOD | 2/08/98 | |
| 000019 | AMMODNEW | 2/08/98 | |

Option 4 New Libraries

This report lists the new libraries created within a date range. Normally, new libraries are not created in a production environment. If a new library exists on your system, it may be because a new software package was restored to your system. Any new software package needs to be audited to ensure the security administrator understands its purpose.

| | | | | | | | | | |
|--------------------------------|------------|----------|----------|---------------|----------|--------------------------------|----------|---------|------|
| AACL33NL | | | | New Libraries | | | 11:51:26 | 7/12/99 | PAGE |
| SELECTION CRITERIA: DEFAULT | | | | | | | | | |
| FROM DATE : 06/01/1999 | | | | | | | | | |
| TO DATE : 06/01/1999 | | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CRT DATE | OWNER | SYSTEM # | OBJECT TEXT | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | |
| QSYS | JDBEVENTS | *LIB | 6/01/99 | JDB | ISIS | Events Processing Application | | | |
| QSYS | JDBEVTDTA | *LIB | 6/01/99 | JDB | ISIS | Events Processing Files | | | |
| QSYS | JDBMENU | *LIB | 6/01/99 | JDB | ISIS | Menu Application Objects (Exec | | | |
| QSYS | JDBMENUDTA | *LIB | 6/01/99 | JDB | ISIS | Menu Driver Files | | | |
| QSYS | JDBOTHDTA | *LIB | 6/01/99 | JDB | ISIS | Other Miscellaneous Test Data | | | |
| QSYS | JDBOTHSRC | *LIB | 6/01/99 | JDB | ISIS | Other miscellaneous source fil | | | |
| QSYS | JDBUTILS | *LIB | 6/01/99 | JDB | ISIS | Utilities | | | |
| QSYS | JDBXA | *LIB | 6/01/99 | JDB | ISIS | Cross Applications objects | | | |
| LIBRARY TOTAL: | | | 8 | | | | | | |

Option 5 Libraries Currently In Use

This report analyzes all the libraries on the system for usage. If a library is in a job's library list, that library is being used by that job's user.

The report lists each library and the number of jobs that have the library allocated.

| | | | |
|--|----------|--------------------------------|---------|
| Libraries Currently Being Used | | | |
| QUERY NAME AAQYLU | | | |
| LIBRARY NAME PSAUDIT | | | |
| FILE | LIBRARY | MEMBER | FORMAT |
| AAPF71 | PSAUDIT | AAPF71 | AAPF71R |
| DATE 02/02/98 | | | |
| TIME 18:26:08 | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | |
| 02/02/98 | 18:26:08 | Libraries Currently Being Used | |
| Library | | User | PAGE 1 |
| ARDBFA | | KAK | |
| | | RWM | |
| Total Users Currently using this Library | | | |
| COUNT 2 | | | |
| AUTOMENU | | EHD | |
| | | GTB | |
| | | JAL | |
| | | KAK | |
| | | NJC | |

Option 6 Libraries With Authority Granted

Use this report to identify who is authorized to access libraries. Especially those libraries with security-sensitive data. Look primarily for system libraries for which user *PUBLIC does not have *USE authority. *ALL authority is generally not desired. With *EXCLUDE authority, objects cannot be accessed. With *USE, objects cannot be added. If the authorized user is a group profile, then group members are also authorized. If the library is secured by an authorization list, review the list.

| | | | | | | | | | | | | | | | | | |
|-------------|--------------|--|----------------|---------|------------------|---------|---------|---------|---------|---------|----------|------|-----|--------|--------|------|---------------|
| 02/02/98 | 18:28:44 | AAQY04 Listing of All Libraries and Their Specific Authorities | | | | | | | | | | | | | | PAGE | 1 |
| System Name | Library Name | Owner | Authority List | User | Object Authority | Obj Opr | Obj Mgt | Obj Ext | Obj Alt | Obj Ref | Autl Mgt | Read | Add | Update | Delete | Exe | PRIMARY GROUP |
| PENTA401 | #CGULIB | QSYS | *NONE | QSYS | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE |
| PENTA401 | #CGULIB | QSYS | *NONE | *PUBLIC | *CHANGE | X | | | | | | X | X | X | X | X | *NONE |
| PENTA401 | #CGULIB | QSYS | *NONE | *ADOPT | USER DEF | | X | X | X | X | X | | | | | | *NONE |
| PENTA401 | #COBLIB | QSYS | *NONE | QSYS | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE |
| PENTA401 | #COBLIB | QSYS | *NONE | *PUBLIC | *CHANGE | X | | | | | | X | X | X | X | X | *NONE |
| PENTA401 | #COBLIB | QSYS | *NONE | *ADOPT | USER DEF | | X | X | X | X | X | | | | | | *NONE |
| PENTA401 | #DFULIB | QSYS | *NONE | QSYS | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE |
| PENTA401 | #DFULIB | QSYS | *NONE | *PUBLIC | *CHANGE | X | | | | | | X | X | X | X | X | *NONE |
| PENTA401 | #DFULIB | QSYS | *NONE | *ADOPT | USER DEF | | X | X | X | X | X | | | | | | *NONE |
| PENTA401 | #DSULIB | QSYS | *NONE | QSYS | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE |
| PENTA401 | #DSULIB | QSYS | *NONE | *PUBLIC | *CHANGE | X | | | | | | X | X | X | X | X | *NONE |
| PENTA401 | #DSULIB | QSYS | *NONE | *ADOPT | USER DEF | | X | X | X | X | X | | | | | | *NONE |
| PENTA401 | #LIBRARY | QSYS | *NONE | QSYS | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE |
| PENTA401 | #LIBRARY | QSYS | *NONE | *PUBLIC | *CHANGE | X | | | | | | X | X | X | X | X | *NONE |
| PENTA401 | #LIBRARY | QSYS | *NONE | *ADOPT | USER DEF | | X | X | X | X | X | | | | | | *NONE |
| PENTA401 | #RPGLIB | QSYS | *NONE | QSYS | *ALL | X | X | X | X | X | | X | X | X | X | X | *NONE |

Option 7 Libraries in Order of Last Save

This report is an audit of your save procedures. Look for libraries missing from the report or libraries not saved when they should have been. Are the libraries containing production source code being saved regularly?

| | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|
| | | | | | List of Libraries, in Order of Last Save Date Report | | | | |
| | | | | | AAQY051 | | | | |
| | | | | | QUERY NAME AAQY051 | | | | |
| | | | | | LIBRARY NAME PSAUDIT | | | | |
| | | | | | FILE LIBRARY MEMBER FORMAT | | | | |
| | | | | | GRPD9.1 QTEMP GRPD9.1 GRPD9.1 | | | | |
| | | | | | DATE 01/18/01 | | | | |
| | | | | | TIME 09:30:43 | | | | |
| | | | | | PSA V5.2 (c) 2000 PentaSafe PSAudit | | | | |
| 01/18/01 09:30:43 | | | | | List of Libraries, in Order of Last Save Date | | | | |
| | | | | | AAQY051 | | | | |
| | | | | | PAGE | | | | |
| | | | | | Create Last Last Last | | | | |
| Last Saved Library Lib Size Library Description | | | | | Date Restor Change Used Creat | | | | |
| ----- | | | | | ----- | | | | |
| NeverSaved QRECOVERY 69,632 Recovery Library | | | | | 031799 011801 *IBM | | | | |
| NeverSaved QRPLOBJ 5,423,104 Library for REPLACE(*YES) processing. | | | | | 031799 011801 QSYS | | | | |
| NeverSaved QSC0160833 73,728 APAR - problem 0100160833 APPN ISIS | | | | | 010101 010101 QSYS | | | | |
| NeverSaved QSC0162880 73,728 APAR - problem 0100162880 APPN ISIS | | | | | 010101 010101 QSYS | | | | |
| NeverSaved QSC0226688 73,728 APAR - problem 0100226688 APPN ISIS | | | | | 010201 010201 QSYS | | | | |
| | | | | | Mor | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |

Option 8 Work with Library Groups

This option allows maintenance of library groups. Library groups are logical collections of libraries (or directories for Integrated File System (IFS) directories). Library groups can simplify and enhance storage analysis since they provide a method of combining common libraries. The total amount of storage used by, the percent of storage used by, the number of libraries contained in, and the total number of objects contained in each group is tracked and reported.

This can also be run using the **WRKLIBGRP** command. The parameters for **WRKLIBGRP** are:

EDTGRP

Specifies whether or not to edit the library groups.

***YES:** Edit the library groups. Note, editing library groups must be performed interactively. Do not specify *YES if submitting the job to batch.

***NO:** Do not edit the library groups.

INFLOAD

Specifies if the group library report database should be updated and if so which information to reload.

***NONE:** Do not reload the database.

***ALL:** Reload the entire database.

***LIB:** Reload only the QSYS.LIB portion of the database.

***IFS:** Reload the IFS portion of the database (except WSYS.LIB)

***QDLS:** Reload the QDLS (folders) portion of the database.

STRDTE

Specifies the starting (minimum) date, if any, to use for the Library Group Analysis report.

***NONE:** Do not produce the report.

***MIN:** Use all available data to produce the report.

Date: User entered start date for the report. This date must be entered in the job date format with or without job date separators.

OUTFILE

Specifies the output file, if any, to create. This file contains all the historical Library Group Analysis data.

***NONE:** Do not create an outfile.

Name: The library/file for the output file.

Note

**UNASSIGN and *IFS are special library groups and cannot be updated or deleted directly. Any library not assigned to a user defined library group is placed in the **UNASSIGN library group. The *IFS group contains information from all IFS directories, in all IFS file systems (“root”, QOpenSys.LIB, QDLS, and QLANSrv) except the QSYS.LIB file system which is handled by all other library groups. All IFS directories in the “root” directory, except QSYS.LIB, are assigned to the special *IFS group. Refer to the IBM book “Integrated File System Introduction” SC41-3711-01 (Version 3) for information about IFS.

Suggestions: A library group may contain any number of libraries but are most useful when used to combine common libraries. To create meaningful and useful library groups, first determine what factors are important and would aid your storage analysis. Libraries can be grouped by software products, user groups, departments, or any meaningful manner. Make as many library groups, containing as many libraries as necessary, to facilitate and enhance your usage of the Storage Analysis Report By Group report. You may want to begin by creating several basic library groups (i.e. SYSTEM, USERS, DEVELOPMENT, etc.) and refine the groups over time. For example, to create a library group to hold all libraries associated with the i5/OS system software and installed licensed products, first create a new group (F6 from main Work with Library Groups screen) named SYSTEM with the description “i5/OS System Libraries”. In this group place all the system libraries (i.e. Q* and #*) using Option 1 (Select Libraries) and 1=Select to select the appropriate libraries. All library groups are created in this manner.

Since the **UNASSIGN library group contains all unassigned libraries and new libraries are automatically added to this group, this group should be regularly reviewed and the unassigned libraries moved to an appropriate library group.

The Storage Analysis Report by Group report is most useful if the **UNASSIGN group is regularly reviewed and kept as empty as possible.

```
_AARP200                                Work with Library Groups                                5/24/99

Type options, press Enter.
  1=Select Libraries  2=Update Group  4=Delete Group  5=Display Libs

Opt Group      Description

F3=Exit  F5=Refresh  F6=New  F12=Cancel
Adding new and removing deleted libraries and IFS directories...
```

Options

- 1 = **Select Libraries** - Select libraries to add to or remove from the library group.
- 2= **Update Group** - Update (change) a library group's name and/or description.
- 4 = **Delete Group** - Delete a library group. All libraries assigned to the group are reassigned to the **UNASSIGN group.
- 5 = **Display Libraries** - Display all libraries assigned to the library group.

Function

F6 = **New** - Create a new library group.

Note

Only Option 5 is allowed with the special **UNASSIGN and *IFS.

Option 1 Select/Remove Libraries in Group

```

AARP200                      Select/Remove Libraries in Group                      5/24/99

Select Libraries to ADD to Group and press Enter.                               1 = Select
=====
                                Libraries in Group: EXAMPLE
                                Library      Library      Library      Library
                                CLS          DEBUGGER    EHD421
                                CLS_PSA      DMH            ETK
                                CLSBASE      DVC01AS
                                CLSOVR       EHDSRC
                                DBADMIN      EHD2

                                                                Bottom
=====
                                All Libraries
Opt Library  Group      Opt Library  Group      Opt Library  Group
= /btf       *IFS      - /QPWXGGY   *IFS      - #DFULIB     **UNASSIGN
- /home      *IFS      - /QPWXGOS2  *IFS      - #DSULIB     **UNASSIGN
- /qserver   *IFS      - /QPWXGPC   *IFS      - #LIBRARY    **UNASSIGN
- /tmp       *IFS      - /QPWXGRB   *IFS      - #SDALIB     **UNASSIGN
- /QDLS      *IFS      - /QTCPTMM   *IFS      - #SEULIB     **UNASSIGN
- /QOpenSys  *IFS      - #CGULIB    **UNASSIGN - APLUS      **UNASSIGN
                                                                More...

F3=Exit  F11=Remove Libraries  F12=Cancel

```

Options

1 = Select - Select which libraries to add or to remove from the selected library group.

Function Keys

F11 = Add/Remove Libraries - Toggles between add libraries (bottom half of screen) and remove libraries (top half of screen).

Note

Any library removed from a library group is assigned to the **UNASSIGN group.

Option 5 Display Libraries

Lists the libraries that you have selected.

| | | | | |
|--------------------|------------|----------------------------|------------|---------|
| AARP200 | | Display Libraries in Group | | 5/24/99 |
| Group: **UNASSIGN | | | | |
| #CGULIB | JDFDATA1 | PENIPG | PSCOMMONM | |
| #DFULIB | JDFDATA2 | PENMKD1 | PSCORE | |
| #DSULIB | JDFDATA4 | PENMKF1 | PSDATA | |
| #LIBRARY | JDFOBJ | PENMKP1 | PSDET_DMO | |
| #SDALIB | JDFSEC | PENMKU1 | PSDETECT | |
| #SEULIB | JDFSRC | PENTAFILES | PSDETECTM | |
| APLUS | JMDSEC1 | PENTAGOLD | PSDSOURCE | |
| AUTOMENU | JMSLIB | PGMDTA | PSGOLD | |
| BTF | KVG | PNTARSSSYS | PSINSTAL | |
| CLSTEST | LCSUTIL | PNTAT00LS | PSINSTALM | |
| CLS2 | LEXASLIB | PRO | PSOBJECT | |
| DWL | LSV | PROFILES | PSOBJECTH2 | |
| EHD | MISUTIL | PSATRAV | PSORIG | |
| IPGCFD3US | PDA | PSATRAV_BK | PSOVR | |
| IPGCCFF3 | PDAARCHIVE | PSAUDIT | PSPROD | |
| IPGCCFP3 | PDAFILES | PSAUDITM | PSPTF | |
| JDFDATA | PDATEST | PSCOMMON | PSSECURE | |
| | | | | More... |
| F3=Exit F12=Cancel | | | | |

Option 9 Library Group Analysis

The Library Group Analysis Group Report provides a report showing historical disk storage usage information by library group. For every library group the total size, percentage of total disk storage used, and the number of objects is tracked and reported. When using this option enter the following information in the PSAudit Submittal Window:

- Date Filter:

Start (minimum) date to show on the report.
- Reload database before:

“Y” to reload the database, “N” to produce the report for existing data only. Note, the database reload can be a long running job and should be submitted to batch (Run interactively = N).
- Output file/lib:

The file name for the output file or *NONE for no output file. The output file contains all the historical data used to produce the report.
- Run interactively:

*NO to submit the job to batch or *YES to run interactively.
- OUTQ:

OUTQ name.
- JOBQ:

JOBQ for submitted job.
- Hold on job queue:

*NO to submit immediately or *YES to submit the job on hold.

| | | | | | | | | | | |
|------------|---------------------------------|-------------------------------|----------------|---------------|----------------------|-----------|------------------------------|-------------------------------|---------|------|
| AAPR200 | | LIBRARY GROUP ANALYSIS REPORT | | | | | | 10:20:49 6/19/98 | | Page |
| | | | | | | | | Current Total DASD Size (MB): | | |
| GROUP | DATE | TIME | SIZE (B) | % TOTAL | # LIB/Dir | # OBJECTS | Size(%Ch) | #Lib(%Ch) | #Obj(%C | |
| ----- | | | | | | | | | | |
| **UNASSIGN | 6/18/1998 | 16:41:01 | 4,199,483,904 | 31.1910 | 282 | 28,533 | *** UNASSIGNED LIBRARIES *** | | | |
| | 6/18/1998 | 10:32:00 | 8,363,347,456 | 62.1246 | 392 | 67,825 | 99.15 | 39.00 | 137 | |
| *IFS | 6/18/1998 | 16:41:01 | 2,513,191,161 | 18.6729 | 22 | 53,200 | *** IFS DIRECTORIES *** | | | |
| | 6/18/1998 | 10:32:00 | 2,521,168,054 | 18.7321 | 22 | 53,009 | .31 | .00 | - | |
| EXAMPLE | 6/18/1998 | 16:41:01 | 331,065,856 | 2.4595 | 27 | 3,076 | Example Library Group | | | |
| SYSTEM | 6/18/1998 | 16:41:01 | 3,856,214,016 | 28.6480 | 123 | 36,243 | i5/OS System Libraries | | | |
| (Misc Sys) | 6/18/1998 | 16:41:01 | 897,056,077 | 6.6653 | | | Miscellaneous System Objects | | | |
| ===== | | | | | | | | | | |
| | 6/18/1998 | 16:41:01 | 11,797,011,014 | 87.6548 | Total Storage Used | | | | | |
| | 6/18/1998 | 16:41:01 | 1,661,461,945 | 12.3450 | Total Storage Unused | | | | | |
| | 6/18/1998 | 16:41:01 | 13,458,472,960 | 100.0000 | Total Storage | | | | | |
| ----- | | | | | | | | | | |
| GROUP | Group name. | | | | | | | | | |
| DATE | Date statistics were collected. | | | | | | | | | |
| TIME | Time statistics were collected. | | | | | | | | | |
| ----- | | | | | | | | | | |
| F3=Exit | F12=Cancel | F19=Left | F20=Right | F24=More keys | | | | | | |

Chapter 7

Option 5 Security Reports Menu

The Security Menu enables you to print reports which provide information to manage the security on your operating system. Before running these reports, you must first Setup Security Journaling.

This menu is accessed by selecting Option 5 of the System Auditing and Reporting Main Menu.

| | | | |
|------|---------------------------------|------------|----------------|
| PA15 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | Security Reports Menu | QPADEV000Q | Time: 16:35:14 |

Select one of the following:

- 1 General Security Reports Menu
- 2 System Access Reports Menu
- 3 User and Object Reports Menu
- 4 Network & Server Reports Menu
- 5 Work Management Report Menu
- 6 Office, Directory & Documents Rpts
- 7 Restore Reports Menu
- 8 Spooling & Printing Reports Menu

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cnd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Note

Security information will be captured only after Security Journaling has been setup, using Option 2 from the System Setup and Defaults Menu.

Some security reports are not valid for earlier versions of the operating system.

Option 1 General Security Reports Menu

| | | | |
|---|---------------------------------|----------------|----------------|
| PA151 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | General Security Reports Menu | QPADEV000Q | Time: 16:37:05 |
| Select one of the following: | | | |
| 1 All Authority Failures | 14 Actions on IPC Objects | | |
| 2 Changes To Object Authority | | | |
| 3 Crt, Chg, Restore of User Profiles | | | |
| 4 Changes To Object Ownership | | | |
| 5 Pgms Changed to Adopt Owner's Auth | | | |
| 6 Changes To System Values | | | |
| 7 Changes to Network Attributes | | | |
| 8 Changes to Subsystem Routing | | | |
| 9 All Delete Operations | | | |
| 10 Obtaining Adopted Authority | | | |
| 11 Use of Service Tools | | | |
| 12 Created Objects | | | |
| 13 Object Move or Rename | | | |
| Enter Option or Function/Type ==> _____ | | | |
| F1=Help | F3=Exit | F6=Messages | F9=Window |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |

Option 1 All Authority Failures

This report displays all authorization failures and integrity errors caused by programs, identifying the job, user and program which performed an unsuccessful attempt to sign on the system or to access unauthorized objects.

Purpose

Use this report to monitor users trying to perform unauthorized functions on the system.

This report can also be used to assist with the migration to a higher security level and to test resource security for a new application.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *AUTFAIL and optionally, *PGMFAIL.

| 02/02/98 18:21:41 | | Authorization Failures | | | | | | | | PAGE | 1 |
|-------------------|----------|------------------------|-----------|---------|-----------|---------|-----------|------------|----------|---------|---|
| | | ACL28AF | | | | | | | | | |
| DATE | Time | Job | Offending | Job | Program | User | Violation | Validation | Object | Library | |
| | | name | User | number | name | profile | type | type | name | name | |
| 02/01/98 | 6:17:36 | QPADEV0005 | KAK | 235,914 | PENTAINIT | KAK | D | | QPAPASS | QSYS | |
| 02/01/98 | 6:19:01 | QPADEV0004 | KAK | 235,915 | PENTAINIT | KAK | D | | QPAPASS | QSYS | |
| 02/01/98 | 6:49:47 | QPADEV0012 | KAK | 235,919 | PENTAINIT | KAK | D | | QPAPASS | QSYS | |
| 02/01/98 | 7:41:37 | QPADEV0032 | KAK | 235,912 | ICF002CL | KAK | D | | QZDDSPST | QSYS | |
| 02/01/98 | 10:02:42 | QPADEV0005 | KAK | 235,931 | PENTAINIT | KAK | D | | QPAPASS | QSYS | |
| 02/01/98 | 10:04:59 | QPADEV0004 | KAK | 235,932 | PENTAINIT | KAK | D | | QPAPASS | QSYS | |
| 02/01/98 | 14:27:05 | QPADEV0034 | KAK | 235,930 | APG000 | KAK | D | | QZDDSPST | QSYS | |
| 02/01/98 | 14:45:44 | QPADEV0005 | KAK | 235,931 | PENTAINIT | KAK | D | | QPAPASS | QSYS | |
| 02/01/98 | 15:08:19 | QPADEV0041 | SWE | 235,973 | PENTAINIT | SWE | A | | PCSWE | QSYS | |
| 02/01/98 | 15:08:44 | QPADEV0041 | SWE | 235,973 | PENTAINIT | SWE | A | | PCSWE00 | QSYS | |
| 02/01/98 | 15:08:45 | QPADEV0041 | SWE | 235,973 | PENTAINIT | SWE | A | | PCTASA | QSYS | |
| 02/01/98 | 15:08:45 | QPADEV0041 | SWE | 235,973 | PENTAINIT | SWE | A | | PCTASS1 | QSYS | |
| 02/01/98 | 15:08:45 | QPADEV0041 | SWE | 235,973 | PENTAINIT | SWE | A | | PCTVZS1 | QSYS | |
| 02/01/98 | 15:10:18 | QPADEV0034 | KAK | 235,930 | APG000 | KAK | D | | QZDDSPST | QSYS | |
| 02/01/98 | 15:22:01 | QPADEV0012 | KAK | 235,981 | PENTAINIT | KAK | D | | QPAPASS | QSYS | |

The following Violation Types may be included on the report when Auditing Level *AUTFAIL is used:

| | |
|----------|--|
| A | Not authorized to the object |
| F | ICAPI authorization error |
| G | ICAPI authentication error |
| H | Scan exit program action |
| I | System Java inheritance not allowed The Java class object you are creating may not extend its base class because the base class has system Java attributes. |
| J | Attempt made to submit or schedule a job under a job description which has a user profile specified and the submitter did not have *USE authority to the job description's user profile. |
| K | User created as *USER with no special authority produces AF/K security audit journal |
| N | Profile token not a regenerable profile token |
| O | Optical Object Authority Failure |
| P | Profile swap error Attempt made to use a user profile handle that is not valid on the QWTSETP API. |

| | |
|----------|--|
| S | Default sign-on Attempt made to sign on without entering a user ID or password. |
| T | Not authorized to TCP/IP port. |
| U | User permission request not valid |
| V | Profile token not valid for generating new profile token |
| W | Profile token not valid for swap |
| X | System violation See J5 offset 723 for violation codes. |
| Y | Not authorized to the current JUID field during a clear JUID operation. |
| Z | Not authorized to the current JUID field during a set JUID operation. |

The following Violation Types may be included on the report when Auditing Level *PGMFAIL is used:

| | |
|----------|--|
| B | A program ran a restricted machine interface instruction. A restricted instruction indicates someone is trying to access a machine instruction (MI) from a command line. This also indicates that system value QSECURITY (the security level on the server) is set to 40 or higher and does not allow any restricted instructions. |
| C | A program which failed the restore-time program validation checks was restored. Information about the failure is in the Validation Value Violation Type field of the record. |
| D | A program accessed an object through an unsupported interface or callable program not listed as a callable API. |
| E | Hardware storage protection violation. |
| R | Attempt made to update an object that is defined as read-only. (Enhanced hardware storage protection is logged only at security level 40 and higher.) |

Option 2 Changes To Object Authority

This report includes all changes to object authorities and to authorization lists.

Purpose

Use this report to review all authorization changes on your system.

An adequate approach to satisfy auditor’s requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | | | | | | | |
|--|----------|---------|----------|----------|----------|-----------|----------|---------|---------|----------|------|------|-----|-----|-----|------|-----------------|
| Report of changes to authorizations | | | | | | | | | | | | | | | | | |
| ACL28CA | | | | | | | | | | | | | | | | | |
| QUERY NAME AAQYCA | | | | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | | | | | |
| AAOUT QTEMP QASYCAJE QASYCAJE | | | | | | | | | | | | | | | | | |
| DATE 02/02/98 | | | | | | | | | | | | | | | | | |
| TIME 18:30:43 | | | | | | | | | | | | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | | | | | | | | | | | | |
| Changes to Authorizations | | | | | | | | | | | | | | | | | |
| ACL28CA | | | | | | | | | | | | | | | | | |
| 02/02/98 | 18:30:43 | | | | | | | | | | | | | | | PAGE | |
| User | Profile | Object | Library | Obj Type | Cmd Type | Auth List | Obj Exst | Obj Mgt | Obj Opr | Autl Mgt | Autl | Read | Add | Upd | Dlt | Excl | Date Time |
| ALE | | Z236314 | PSSECURE | *MSGQ | GRT | | | | Y | | | Y | Y | Y | Y | | 02/02/98 9:09: |
| | | Z236314 | PSSECURE | *MSGQ | RVK | | Y | Y | Y | | | Y | Y | Y | Y | | 02/02/98 9:09: |
| | | Z236420 | PSSECURE | *MSGQ | GRT | | | | Y | | | Y | Y | Y | Y | | 02/02/98 12:57: |
| | | Z236420 | PSSECURE | *MSGQ | RVK | | Y | Y | Y | | | Y | Y | Y | Y | | 02/02/98 12:57: |
| Total for User | | | | | | | | | | | | | | | | | |

Below are the Command Types shown under column labeled “Cmd Typ”:

- GRT** Grant authority
- RVK** Revoke authority
- USR** Grant User Authority (GRTUSRAUT)
- RPL** Grant with replace

The “Auth List” column shows the authorization list assigned to the object.

Option 3 Crt, Chg, Restore of User Profiles

This report includes a record for each user profile that is created, changed, or restored.

Purpose

Use this report to review all new and restored user profiles, as well as any changes to the user profiles. Deleted profiles will appear on the Deleted Objects report (option text is “All delete operations”).

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | |
|--|----------|---------|----------|----------|----------|---------|----------|-----------|---------|---------|---------|
| User Profile Changes Report | | | | | | | | | | | |
| AACL28CP | | | | | | | | | | | |
| QUERY NAME AAQYCP | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | |
| AAOUT QTEMP QASYCPE QASYCPE | | | | | | | | | | | |
| DATE 01/02/12 | | | | | | | | | | | |
| TIME 13:45:06 | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | |
| Changes to User Profiles | | | | | | | | | | | |
| AACL28CP | | | | | | | | | | | |
| 01/02/12 | 13:45:06 | | | | | | | | | | PAGE |
| CHANGED | USRPRF | USRPRF | *ALLOBJ | *JOBCTL | *SECDM | *SPLCTL | GROUP | INITIAL | LIMIT | DATE | TIME |
| BY USER | CHANGED | COMMAND | SPCAUT | SPCAUT | SPCAUT | SPCAUT | PROFILE | PROGRAM | CAPAB | | |
| USER | STATUS | SYSTEM | PASSWORD | PASSWORD | PASSWORD | *SAVSYS | *SERVICE | GROUP | INITIAL | MENU | CURRENT |
| CLASS | | NAME | CHANGED | *NONE | EXPIRED | SPCAUT | SPCAUT | AUTHORITY | MENU | LIBRARY | LIBRARY |
| No records in query report. | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | |
| (c) PentaSafe Security Technologies, Inc. 2000 | | | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | | |
| Cursor in protected area of display. | | | | | | | | | | | |

Option 4 Changes to Object Ownership

This report lists all changes to object ownership. This report is important because if the ownership of a program object which adopts its owner’s authority is given to a “powerful” user profile, then system security could easily be compromised. Similarly, if the object is a data file, the new owner can access, change, and delete the data and the object.

Purpose

Use this report to monitor changes to object ownership. The objects owned by powerful profiles should be kept to a minimum. The security administrator should question whether the change of ownership is justified.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | |
|---|----------|----------|----------|---------|--------|-------|-------|------|---|
| Report of changes to object ownership. | | | | | | | | | |
| AACL28OW | | | | | | | | | |
| QUERY NAME AAQYOW | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYOWJE QASYOWJE | | | | | | | | | |
| DATE 02/02/98 | | | | | | | | | |
| TIME 18:32:40 | | | | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | | | | |
| Object Ownership Changes | | | | | | | | | |
| 02/02/98 | 18:32:40 | | | | | | | PAGE | 1 |
| AACL28OW | | | | | | | | | |
| USER CHANGING | DATE | TIME | LIBRARY | OBJECT | OBJECT | OLD | NEW | | |
| OWNERSHIP | | | NAME | NAME | TYPE | OWNER | OWNER | | |
| ALE | 02/02/98 | 9:09:36 | PSSECURE | Z236314 | *MSGQ | ALE | QPGMR | | |
| | 02/02/98 | 12:57:33 | PSSECURE | Z236420 | *MSGQ | ALE | QPGMR | | |
| Total by user | | | | | | | | | |
| COUNT 2 | | | | | | | | | |
| DEY | 02/02/98 | 9:54:14 | PSSECURE | Z236353 | *MSGQ | DEY | QPGMR | | |
| Total by user | | | | | | | | | |

Option 5 Programs Changed To Adopt Owner's Authority

This report lists programs that have been changed via the Change Program (CHGPGM) command to adopt the authority of the program's owner.

Purpose

Use this report to monitor changes to programs that may pose a security risk. The security administrator should clearly understand the purpose of each program and why it is necessary for it to adopt its owner's authority.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | |
|---------------------------------------|----------|----------|--------|---------|----------|----------|----------|------|---------|
| Report of changes to programs. | | | | | | | | | |
| AACL28PA | | | | | | | | | |
| QUERY NAME AAQYPA | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYPAJE QASYPAJE | | | | | | | | | |
| DATE 02/02/98 | | | | | | | | | |
| TIME 18:33:29 | | | | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | | | | |
| Program Changes | | | | | | | | | |
| AACL28PA | | | | | | | | | |
| 02/02/98 | 18:33:29 | | | | | | | | PAGE 1 |
| USER CHANGING | LIBRARY | OBJECT | OBJECT | OWNER | SYSTEM | DATE | JOB | JOB | JOB |
| PROGRAM | NAME | CHANGED | TYPE | | NAME | | NAME | USER | NUMBER |
| EHD | PSSECURE | ZPCL01 | *PGM | QPGMR | PENTA401 | 02/02/98 | PRPPRD01 | EHD | 236,482 |
| | PSSECURE | ZPCL04 | *PGM | QSECOFR | PENTA401 | 02/02/98 | PRPPRD01 | EHD | 236,482 |
| | PSSECURE | ZPCL04ZP | *PGM | QSECOFR | PENTA401 | 02/02/98 | PRPPRD01 | EHD | 236,482 |
| | PSSECURE | ZPRP88 | *PGM | QSECOFR | PENTA401 | 02/02/98 | PRPPRD01 | EHD | 236,482 |
| Number of Programs Changed | | | | | | | | | |
| COUNT 4 | | | | | | | | | |

Option 6 Changes To System Values

This report shows the before and after change values for System Values.

Purpose

Use this report to review changes to system values, some of which are performance related and can drastically impact your system if changed improperly. Other system values affect the security of your system (i.e., whether QSECOFR can sign-on to all or only selected workstations).

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | |
|---|------------|----------|---------|-------|------------|----------|---------|-----------|--------|------|
| Changes to System Values Report | | | | | | | | | | |
| AACL28SV | | | | | | | | | | |
| QUERY NAME AAQYSV | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP QASYSVJE QASYSVJE | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | |
| TIME 11:47:59 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| Changes to System Values | | | | | | | | | | PAGE |
| AACL28SV | | | | | | | | | | |
| 07/12/99 | 11:47:59 | | | | | | | | | |
| System | | | User | Entry | | | | | System | |
| Value | Date | Time | Profile | Type | Job Name | Job User | Job Nbr | Program | Name | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| Old Value | | | | | | | | | | |
| New Value | | | | | | | | | | |
| ----- | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:42:31 | CLS | A | QPADEV000B | CLS | 51865 | \$CLSTART | ISIS | |
| MDY | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:42:35 | CLS | A | QPADEV000B | CLS | 51865 | \$CLSTART | ISIS | |
| MDY | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:47:40 | SGS | A | QPADEV000F | SGS | 51947 | MSCL120 | ISIS | |
| MDY | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:47:45 | SGS | A | QPADEV000F | SGS | 51947 | MSCL120 | ISIS | |
| MDY | | | | | | | | | | |
| MDY | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

Note

If the System Value is changed, but still has the same value, the operating system thinks the value has been changed. Every time a system value is changed, whether or not the data has changed, the system records that information in the security journal.

If this report yields no data because the Security Auditing Journal Receivers has been deleted, call program AACL28SVH and it will submit a job to search the QHST logs on your system for message id CPF1806, which identifies changes to System Values.

The following Entry Types may be included:

- A** A system value was changed
- B** Service attributes were changed
- C** Changes to System Clock

Option 7 Changes To Network Attributes

This report shows the before and after change values for Network Attributes.

Purpose

Use this report to review changes to Network Attributes, some of which are associated with remote users, personal computers, and distributed services.

The Network Attributes control the way in which your system communicates with other systems. Some network attributes control the manner in which remote requests to process jobs and access information are handled. The values for these network attributes directly affect your system's security. Network Attributes can be changed using the Change Network Attributes (CHGNETA) command.

An adequate approach to satisfy auditor's requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | |
|--|------------|----------|------------|--------------|--------------|-------------|------------|-------------------|------|
| Report of changes to network attributes. | | | | | | | | | |
| AACL28NA | | | | | | | | | |
| QUERY NAME AAQYNA | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYNAGE QASYNAGE | | | | | | | | | |
| DATE 02/02/98 | | | | | | | | | |
| TIME 18:34:54 | | | | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | | | | |
| Changes to Network Attributes | | | | | | | | | |
| 02/02/98 | 18:34:54 | AACL28NA | | | | | | | PAGE |
| AACL28NA | | | | | | | | | |
| DATE | JOB NAME | JOB USER | JOB NUMBER | PROGRAM NAME | USER PROFILE | SYSTEM NAME | ENTRY TYPE | NETWORK ATTRIBUTE | |
| NEW NETWORK VALUE | | | | | | | | | |
| OLD NETWORK VALUE | | | | | | | | | |
| 02/02/98 | QPADEV0010 | EHD | 236,333 | AACLINSTEX | EHD | PENTA401 | A | DDMACC | |
| AACLDDM | | | | | | | | | |
| AACLDDM | | | | | | | | | |
| 02/02/98 | QPADEV0010 | EHD | 236,333 | AACLINSTEX | EHD | PENTA401 | A | PCSACC | |

Option 8 Changes To Subsystem Routing

This report shows routing entries that have been added, changed, or removed from your subsystem descriptions.

Purpose

Use this report to review routing entry changes made to your subsystem descriptions.

A routing entry defines what a job does once it enters the subsystem. The subsystem uses routing entries for all job types: batch, interactive, and communications jobs.

A routing entry specifies the following:

- **The class for the job.** Like job queue entries, the class that is associated with a job can affect its performance but does not represent a security exposure.
- **The program that runs when the job starts.** Look at the routing entries and ensure that no one has added or updated any entries to run programs that you are not aware of.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

System value QUADLVL must specify *SECURITY.

```

Changes to Subsystem Description Routing Entries Report
ACL28SE
QUERY NAME . . . . . AAQYSE
LIBRARY NAME . . . . . PSAUDIT
FILE LIBRARY MEMBER FORMAT
AAOUT QTEMP QASYSEJE QASYSEJE
DATE . . . . . 07/12/99
TIME . . . . . 11:56:00
Filter used for Report: DEFAULT
07/12/99 11:56:00 Changes to Subsystem Routing Entries PAGE 1
ACL28SE
USER LIBRARY SBSD OBJECT PROGRAM PROGRAM SEQUENCE COMMAND DATE SYSTEM
PROFILE NAME TYPE NAME LIBRARY NAME NAME
EHD PSAUDIT ZALOG *SBSD ALCL80 PSAUDITT 0010 CHG 1999-06-15 ISIS
PSAUDIT ZALOG *SBSD ALCL80 PSAUDIT 0010 CHG 1999-06-17 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 0300 ADD 1999-06-09 ISIS
PSCOMMON PSWORK *SBSD QCL QSYS 0700 ADD 1999-06-09 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 9999 ADD 1999-06-09 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 0300 ADD 1999-06-09 ISIS
PSCOMMON PSWORK *SBSD QCL QSYS 0700 ADD 1999-06-09 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 9999 ADD 1999-06-09 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 0300 ADD 1999-06-16 ISIS
PSCOMMON PSWORK *SBSD QCL QSYS 0700 ADD 1999-06-16 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 9999 ADD 1999-06-16 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 0300 ADD 1999-06-16 ISIS
PSCOMMON PSWORK *SBSD QCL QSYS 0700 ADD 1999-06-16 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 9999 ADD 1999-06-18 ISIS
PSCOMMON PSWORK *SBSD PSEAGENTD PSCOMMON 0100 ADD 1999-06-18 ISIS
PSCOMMON PSWORK *SBSD PSEAGENT PSCOMMON 0200 ADD 1999-06-18 ISIS
PSCOMMON PSWORK *SBSD QCMD QSYS 9999 ADD 1999-06-18 ISIS
PSSecure ZASBS *SBSD ASCL08 PSSecure 0010 CHG 1999-06-15 ISIS
PSSecure ZASBS *SBSD ASCL08 PSSecure 0010 CHG 1999-06-17 ISIS
Number of Changes by User
COUNT 19
JDB QSYS QSYSWRK *SBSD QUMBDMN QUMEDIA 2545 ADD 1999-06-28 ISIS
Number of Changes by User
COUNT 1
Total Number of Changes
COUNT 20
*** END OF REPORT ***
(c) 1998 PentaSafe, Inc.
```

Option 9 All Delete Operations

This report shows all delete operations, except deleting objects from QTEMP library.

Purpose

Use this report to review the deleted objects, paying special attention to objects deleted from production libraries.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *DELETE. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | | | | |
|--|-------------|--------|----------|----------|------------|------|--------|-----------|---|
| Report of deleted objects for specified dates. | | | | | | | | | |
| AACL28DO | | | | | | | | | |
| QUERY NAME AAQYDO | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QASYDOJE QASYDOJE | | | | | | | | | |
| DATE 02/02/98 | | | | | | | | | |
| TIME 18:36:26 | | | | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | | | | |
| Deleted Objects | | | | | | | | | |
| 02/02/98 | 18:36:26 | | | | | | | PAGE | 1 |
| AACL28DO | | | | | | | | | |
| LIBRARY | DELETED | OBJECT | DATE | TIME | JOB | JOB | JOB | PROGRAM | |
| NAME | OBJECT | TYPE | | | NAME | USER | NUMBER | NAME | |
| EHD | \$064952180 | *PGM | 02/02/98 | 11:17:46 | QPADEV0068 | EHD | 236329 | RCTPGMC | |
| EHD | \$065098812 | *PGM | 02/02/98 | 11:21:31 | QPADEV0068 | EHD | 236329 | RCTPGMC | |
| ELTEXMAIL | ADDDAT | *PGM | 02/02/98 | 9:45:24 | QPADEV0045 | KAK | 236343 | PENTAINIT | |
| ELTEXMAIL | DATEDIFF | *PGM | 02/02/98 | 9:45:24 | QPADEV0045 | KAK | 236343 | PENTAINIT | |
| ELTEXMAIL | DAYCALCC | *PGM | 02/02/98 | 9:45:25 | QPADEV0045 | KAK | 236343 | PENTAINIT | |
| ELTEXMAIL | ERBL01 | *PGM | 02/02/98 | 18:09:13 | QPADEV0039 | RWM | 236378 | MSCL120 | |

Option 10 Obtaining Adopted Authority

This report lists all the programs started that adopt their owner’s authority.

Purpose

Use this report to review the programs that were started and ended and adopted their owner’s authority to gain access to an object. If a program that adopts the authority of QSECOFR is started, that program may allow its user to perform the functions of QSECOFR.

This report may also be used to show where and how a new application uses adopted authority.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites
System value QAUDLVL must specify *PGMADP.

| | | | | | | | | | | | | |
|-------------------|----------|--|----------|-----------|---------|----------|----------|--------|-----------|--------------|----------|---------|
| 02/02/98 18:37:13 | | Adopted Authorities Obtained AACL28AP | | | | | | | | PAGE | | 1 |
| | | | | Adpt Auth | | | | | | | | |
| Date | Time | Object | Library | Obj Type | Owner | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ |
| 02/01/98 | 0:35:53 | AACLQTC | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AACLQTC | QUSER | PENTA401 | S |
| 02/01/98 | 0:35:53 | AARPEXR | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AARPEXR | QUSER | PENTA401 | S |
| 02/01/98 | 0:35:53 | AARPEXR | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AARPEXR | QUSER | PENTA401 | E |
| 02/01/98 | 0:35:53 | AACLQTC | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AACLQTC | QUSER | PENTA401 | E |
| 02/01/98 | 9:53:21 | TAATMPCC | TAATOOL | *PGM | QSECOFR | CVTQHST2 | EHD | 235916 | TAATMPCC | EHD | PENTA401 | S |
| 02/01/98 | 9:53:21 | TAATMPCC | TAATOOL | *PGM | QSECOFR | CVTQHST2 | EHD | 235916 | TAATMPCC | EHD | PENTA401 | E |
| 02/01/98 | 9:53:24 | TAAHSTEC | TAATOOL | *PGM | QSECOFR | CVTQHST2 | EHD | 235916 | TAAHSTEC | EHD | PENTA401 | S |
| 02/01/98 | 9:53:42 | TAATMPCC2 | TAATOOL | *PGM | QSECOFR | CVTQHST2 | EHD | 235916 | TAATMPCC2 | EHD | PENTA401 | S |
| 02/01/98 | 9:53:42 | TAATMPCC2 | TAATOOL | *PGM | QSECOFR | CVTQHST2 | EHD | 235916 | TAATMPCC2 | EHD | PENTA401 | E |
| 02/01/98 | 9:53:42 | TAAHSTEC | TAATOOL | *PGM | QSECOFR | CVTQHST2 | EHD | 235916 | TAAHSTEC | EHD | PENTA401 | E |
| 02/01/98 | 10:28:50 | AACLQTC | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AACLQTC | QUSER | PENTA401 | S |
| 02/01/98 | 10:28:51 | AARPEXR | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AARPEXR | QUSER | PENTA401 | S |
| 02/01/98 | 10:28:51 | AARPEXR | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AARPEXR | QUSER | PENTA401 | E |
| 02/01/98 | 10:28:51 | AACLQTC | PSSECURE | *PGM | QSECOFR | QZSOSIGN | QUSER | 235345 | AACLQTC | QUSER | PENTA401 | E |

The following Entry Types are included:

- S** A program started that adopts owner authority. The “start” entry is written the first time adopted authority is used to gain access to an object, not when the program enters the program stack.
- E** A program ended that adopts owner authority. The “end” entry is written when the program leaves the program stack. If the same program occurs more than once in the program stack, the “end” entry is the highest (last) occurrence of the program that leaves the stack.
- A** Adopted authority used during program activation.

Option 11 Use Of Service Tools

This report identifies usage of any of the Service Tools.

Purpose

Use this report to review usage of the Service Tools, which can be accessed using the Start System Service Tools (STRSST) command.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SERVICE.

| | | | | | | | | | | | | | |
|------------------------------|----------|------------|----------|----------------------|-----------|--------------|----------|----------|----------|--------|---------|-------|--|
| 02/02/98 18:38:30 | | | | Use Of Service Tools | | | | | | | | PAGE | |
| | | | | AACL28ST | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Type | Srv Tool | Object | Library | Obj T | |
| ----- | | | | | | | | | | | | | |
| Traced | | Traced | Traced | | | | | | | | | | |
| Job Name | | Job User | JobNbr | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| 02/02/98 | 11:38:03 | QPADEV0068 | EHD | 236329 | BGNRFPJOB | EHD | PENTA401 | A | ST | | | | |
| Number of service tools used | | | | | | | | | | | | | |
| COUNT 1 | | | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | | | |
| (c) PentaSafe, 1997 | | | | | | | | | | | | | |

The following Service Tool codes may be listed:

- AN** Analyze Java Virtual Machine (ANZJVM)
- CS** Start Copy Screen (STRCPYSCN)
- CD** Control Device & Dump Device APIs (QTACTLDV, QTADMPDV)
- CE** Control Trace API (QWTCTLTR)
- CT** Dump Cluster Trace (DMPCLUTRC)
- DC** Delete Communications Trace (DLTCMNTRC)
- DD** Dump Document Library Object (DMPDLO)
- DJ** Dump Java Virtual Machine (DMPJVM), Java Performance API QPYRTJVM)
- DM** Dump Memory Information (DMPMEMINF)
- DO** Dump Object (DMPOBJ)
- DS** Dump System Object (DMPYSOBY)
- EC** End Communications Trace (ENDCMNTRC)
- ER** End Remote Support (ENDRMTSPT)
- HD** Perform Hardware Configuration Operation (QYHCHCOP (DASD))
- HL** Perform Hardware Configuration Operation (QYHCHCOP (LPAR))
- JW** QPYRTJWA

| | |
|-----------|--|
| MC | Change (QWMMMAINT) |
| MD | Dump (QWMMMAINT) |
| OP | Operations console |
| PC | Print Communications Trace (PRTCMNTRC) |
| PE | Print Error Log (PRTERRLOG) |
| PI | Print Internal Data (PRTINTDTA) |
| PS | List Object References (QP0FPTOS) |
| SC | Start Communications Trace (STRCMNTRC) |
| SE | Set Trace (QWTSETTR) |
| SF | Display internal stack entry (QWCCDSIC) Retrieve Call Stack (QWVRCSTK) |
| SJ | Start Service Job (STRSRVJOB) |
| SR | Start Remote Support (STRRMTSPT) |
| ST | Start System Service Tools (STRSST) |
| TA | Trace TCP/IP Application (TRCTCPAPP) |
| TC | Trace Connection (TRCCNN (*FORMAT specified)) |
| TE | End Trace (ENDTRC), End Performance Explorer (ENDPEX) , Trace Job TRCJOB(*OFF, or *END specified)) |
| TI | Trace Internal (TRCINT) |
| TQ | Change system-wide time quantum value (QWCTMQTM) |
| TS | Start Trace (STRTRC), Start Performance Explorer (STRPEX), Trace Job TRCJOB(*ON specified)) |
| UD | Update drive microcode (QTAUPDDV) |
| WE | End Watch for event function (ENDWCH), Change End Watch (QSCEWCH) |

- WS** Start Watch for event function (STRWCH), Change Start Watch (QSCSWCH)
- WT** Work with Traces (WRKTRC)
- WW** Work With Watches (WRKWCH)

Option 12 Created Objects

This report will list all the created objects, except creation of objects in QTEMP library.

Purpose

Use this report to monitor when programs are created or recompiled.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *CREATE. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| 02/02/98 18:39:19 | | Created Objects AACL28CO User | | | | | | | | PAGE 1 | |
|-------------------|--------|-------------------------------------|----------|--------|---------|---------|----------|---------|----------|----------|------------|
| Date | Time | Job Name | Job User | JobNbr | Program | Profile | System | Object | Library | Obj Type | Office Usr |
| 02/01/98 | 162003 | QPADEV0056 | EHD | 236014 | ASPGM | EHD | PENTA401 | Z236014 | PSSECURE | *MSGQ | |
| 02/01/98 | 162026 | QPADEV0068 | EHD | 236015 | ASPGM | EHD | PENTA401 | Z236015 | PSSECURE | *MSGQ | |
| 02/01/98 | 170749 | QPADEV0010 | EHD | 236031 | ASPGM | EHD | PENTA401 | Z236031 | PSSECURE | *MSGQ | |
| 02/01/98 | 170806 | QPADEV0056 | EHD | 236032 | ASPGM | EHD | PENTA401 | Z236032 | PSSECURE | *MSGQ | |
| 02/01/98 | 171237 | QPADEV0056 | EHD | 236033 | ASPGM | EHD | PENTA401 | Z236033 | PSSECURE | *MSGQ | |
| 02/01/98 | 193311 | ASCL10 | EHD | 236068 | QCMD | EHD | PENTA401 | ASCL10 | PSSECURE | *PGM | |
| 02/01/98 | 193926 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ASCL20 | PSSECURE | *PGM | |
| 02/01/98 | 194639 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ALCL00 | PSAUDIT | *PGM | |
| 02/01/98 | 195451 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ALCL01 | PSAUDIT | *PGM | |
| 02/01/98 | 195950 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ZPCL00 | PSSECURE | *PGM | |
| 02/01/98 | 200840 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ZPCL01 | PSSECURE | *PGM | |
| 02/01/98 | 201413 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ZPCL01 | PSSECURE | *PGM | |
| 02/01/98 | 201457 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ZPCL00 | PSSECURE | *PGM | |
| 02/01/98 | 201914 | QPADEV0010 | EHD | 236031 | RCTPGMC | EHD | PENTA401 | ASCL20 | PSSECURE | *PGM | |

The following Entry Types may be included:

- N** Creation of a new object
- R** Creation of an object that replaces an existing object

Option 13 Object Move or Rename

This report will identify all objects that were moved to a different library or renamed within their libraries.

Purpose

Use this report to detect copying of confidential information by moving the object to a different library.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *OBJMGT. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | | | | |
|-------------------|-------------|-------------------------|------------|-------------|----------|--------------|----------|----------|--|
| 02/02/98 18:40:47 | | Object Moves or Renames | | | | | | PAGE 1 | |
| AACL280M | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Type | |
| Old Object | Old Library | Obj Type | New Object | New Library | Old DLO | New DLO | Office | Usr | |
| 02/01/98 | 3:01:26 | ASOMAP | PENTA | 235861 | ASCL30 | PENTA | PENTA401 | R | |
| LEXSRC400 | PSSECURE | *PGM | Q245437255 | PSSECURE | | | | | |
| 02/01/98 | 3:01:26 | ASOMAP | PENTA | 235861 | ASCL30 | PENTA | PENTA401 | M | |
| Q245437255 | PSSECURE | *PGM | Q245437255 | QRPLOBJ | | | | | |
| 02/01/98 | 3:01:26 | ASOMAP | PENTA | 235862 | ASCL30 | PENTA | PENTA401 | R | |
| LEXSRC400 | PSSECURE | *PGM | Q24543747C | PSSECURE | | | | | |
| 02/01/98 | 3:01:26 | ASOMAP | PENTA | 235862 | ASCL30 | PENTA | PENTA401 | M | |
| Q24543747C | PSSECURE | *PGM | Q24543747C | QRPLOBJ | | | | | |
| 02/01/98 | 7:39:21 | ARGOBU01 | KAK | 235924 | APG261CL | KAK | PENTA401 | R | |
| ARGOBU01 | ELTEXPTF | *PGM | Q2463BEC45 | ELTEXPTF | | | | | |
| 02/01/98 | 7:39:21 | ARGOBU01 | KAK | 235924 | APG261CL | KAK | PENTA401 | M | |
| Q2463BEC45 | ELTEXPTF | *PGM | Q2463BEC45 | QRPLOBJ | | | | | |

The following Entry Types may be included:

- M An object was moved to a different library
- R An object was renamed

Option 14 Actions On IPC (Interprocess Communications) Objects

This report will identify actions against IPC objects, such as Get, Create, Delete, and Change of Ownership.

Purpose

Use this report to monitor IPC object activity.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | |
|--|----------|-----|------------|----------|--------|---------|--------------|--------|---------|-----------|-----------|
| Actions On Interprocess Communication (IPC) Objects Report | | | | | | | | | | | |
| AAACL28IP | | | | | | | | | | | |
| QUERY NAME AAQYIP | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | |
| AAOUT QTEMP QASYIPJE QASYIPJE | | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | | |
| TIME 11:56:29 | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | |
| 07/12/99 11:56:29 Actions On Interprocess Communication (IPC) Objects PAGE 1 | | | | | | | | | | | |
| AAACL28IP | | | | | | | | | | | |
| Date | Time | Ent | Job Name | Job User | JobNbr | Program | User Profile | System | IPC Typ | New Owner | Old Owner |
| 1999-06-25 | 11:26:21 | C | QPADEV000B | JDB | 45901 | QCMD | JDB | ISIS | M | JDB | |
| 1999-06-25 | 11:29:38 | D | QPADEV000B | JDB | 45901 | QCMD | JDB | ISIS | M | | |
| * * * END OF REPORT * * * | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | |

The following Entry Types may be included on the report when Auditing Level *SECURITY is used:

- A** The ownership or authority of an IPC object was changed
- C** Create an IPC object
- D** Delete an IPC object
- G** Get an IPC object

The following Entry Type may be included on the report when Auditing Level *AUTFAIL is used:

- F** Authority failure for an IPC request

The following IPC Types may be included on the report:

- M** Shared memory
- Q** Message Queue
- S** Semaphore

Option 2 System Access Reports Menu

PA152

PentaSafe Security Technologies

CAS

Date: 6/06/00

System Access Reports Menu

QPADEV000Q

Time: 16:39:37

Select one of the following:

1 Invalid Sign-on Attempts

2 Crt, Chg, Restore of User Profiles

3 Profile Swaps

4 Network Resource Access

5 Network Password Errors

6 FTP Logon and Server Requests

Enter Option or Function/Type ==> _____

F1=Help

F3=Exit

F6=Messages

F9=Window

F10=Cmd Line

F12=Previous

F13=Attention

F14=Batch Jobs

F18=Reports

Option 1 Invalid Sign-On Attempts

This report lists all attempts to sign-on to the system using either an invalid password or a user profile that does not exist.

Purpose

Use this report to monitor users trying to perform unauthorized functions on the system.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *AUTFAIL.

| | | | | | | |
|--|----------|-------------------------------|-----------------------|-----------|----------|--------|
| Report of password and user ID failures. | | | | | | |
| AACL28PW | | | | | | |
| QUERY NAME AAQYPW | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | |
| AAOUT QTEMP QASYPWJE QASYPWJE | | | | | | |
| DATE 02/10/98 | | | | | | |
| TIME 19:37:11 | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | |
| 02/10/98 19:37:11 | | Password and User ID Failures | | | | PAGE 1 |
| AACL28PW | | | | | | |
| DATE | TIME | USER | DEVICE | VIOLATION | SYSTEM | SORT |
| | | NAME | NAME | TYPE | NAME | |
| 02/09/98 | 16:22:22 | EHD | Communications Device | P | PENTA401 | 980209 |
| 02/09/98 | 10:05:18 | GAS2 | Communications Device | P | PENTA401 | 980209 |
| 02/09/98 | 9:07:29 | PAC | Communications Device | P | PENTA401 | 980209 |
| 02/09/98 | 9:08:09 | PAC | QPADEV0081 | P | PENTA401 | 980209 |
| 02/09/98 | 9:08:15 | PAC | QPADEV0081 | P | PENTA401 | 980209 |
| 02/09/98 | 9:12:52 | PAC | Communications Device | P | PENTA401 | 980209 |

Device Entries

“Communications Device” entries are invalid signon attempts through any of the following host servers:

- *CENTRAL
- *DTAQ
- *NETPRT
- *SIGNON
- *DATABASE
- *FILE
- *RMTCMD
- *SVRMAP

The *SIGNON server is normally used to access the server from the network. It is at this time that these entries are generated if a valid User ID/invalid password or invalid User ID/valid password combination is specified.

The following Violation Types may be included on the report:

- A** APPC bind failure
- C** User authentication with CHKPWD command failed
- D** Service tools user ID name not valid
- E** Service tools user ID password not valid
- P** Password not valid
- Q** Attempted signon failed because the user profile is disabled
- R** Attempted signon failed because the password is expired. This audit record might not occur for some user authentication mechanisms. Some authentication mechanisms do not check for expired passwords.
- S** SQL Decryption password is not valid
- U** User name not valid
- X** Service tools user ID is disabled
- Y** Service tools user ID not valid
- Z** Service tools user ID password not valid

Option 2 Crt, Chg, Restore of User Profiles

This report includes a record for each user profile that is created, changed, or restored.

Purpose

Use this report to review all new and restored user profiles, as well as any changes to user profiles. Deleted profiles will appear on the Deleted Objects report (option text is “All delete operations”).

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | | |
|---------------------------------------|----------|----------|----------|----------|----------|---------|----------|-----------|---------|----------|---------|------|
| Report of changes to user profiles. | | | | | | | | | | | | |
| AACL28CP | | | | | | | | | | | | |
| QUERY NAME AAQYCF | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | |
| FILE LIBRARY | | | | | | | | | | | | |
| MEMBER QASYCPE | | | | | | | | | | | | |
| QASYCPE QASYCPE | | | | | | | | | | | | |
| DATE 02/10/98 | | | | | | | | | | | | |
| TIME 19:38:02 | | | | | | | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | | | | | | | |
| Changes to User Profiles | | | | | | | | | | | | PAGE |
| AACL28CP | | | | | | | | | | | | |
| 02/10/98 | 19:38:02 | | | | | | | | | | | |
| CHANGED | USRPRF | USRPRF | *ALLOBJ | *JOBCTL | *SECADM | *SPLCTL | GROUP | INITIAL | LIMIT | DATE | TIME | |
| BY USER | CHANGED | COMMAND | SPCAUT | SPCAUT | SPCAUT | SPCAUT | PROFILE | PROGRAM | CAPAB | | | |
| USER | STATUS | SYSTEM | PASSWORD | PASSWORD | PASSWORD | *SAVSYS | *SERVICE | GROUP | INITIAL | | | |
| CLASS | | NAME | CHANGED | *NONE | EXPIRED | SPCAUT | SPCAUT | AUTHORITY | MENU | | | |
| CURRENT | | | | | | | | | | | | |
| LIBRARY | | | | | | | | | | | | |
| JMS | QSYSOPR | CHG | | | | | | | | 02/09/98 | 1:56:45 | |
| | | PENTA401 | Y | | | | | | | 980209 | | |

Option 3 Profile Swaps

This report identifies jobs that had work done by one user on behalf of another.

Purpose

Use this report to review jobs in which work was done under a user profile different from the job's user profile.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | | |
|---------------------|---------|----------|----------|--------|----------|--------------|----------|---------|-------------------|-----------------|------------------|------------|
| 02/10/98 19:38:53 | | | | | | | | | | | | |
| Profile Swaps | | | | | | | | | | | | PAGE |
| AACL28PS | | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ | Swap User Profile | Source Location | Original Profile | New Profil |
| ----- | | | | | | | | | | | | |
| Behalf | | | | | | | | | | | | |
| Office User Of User | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | |
| 02/09/98 | 1:52:52 | QZSOSIGN | QUSER | 239178 | QZSOSIGN | QUSER | PENTA401 | H | JMS | | | |
| 02/09/98 | 1:52:52 | QZSOSIGN | QUSER | 239178 | QZSOSIGN | JMS | PENTA401 | H | QUSER | | | |
| 02/09/98 | 1:52:57 | QZSCSRVS | QUSER | 239297 | QZSCSRVS | QUSER | PENTA401 | H | JMS | | | |
| 02/09/98 | 1:53:10 | QZRCRVS | QUSER | 237847 | QZRCRVS | QUSER | PENTA401 | H | JMS | | | |
| 02/09/98 | 1:54:41 | QZSOSIGN | QUSER | 239178 | QZSOSIGN | QUSER | PENTA401 | H | JMS | | | |
| 02/09/98 | 1:54:41 | QZSOSIGN | QUSER | 239178 | QZSOSIGN | JMS | PENTA401 | H | QUSER | | | |
| 02/09/98 | 1:54:45 | QZSCSRVS | QUSER | 239298 | QZSCSRVS | QUSER | PENTA401 | H | JMS | | | |
| 02/09/98 | 1:54:51 | QZRCRVS | QUSER | 239368 | QZRCRVS | QUSER | PENTA401 | H | JMS | | | |
| 02/09/98 | 1:56:36 | QZSOSIGN | QUSER | 239178 | QZSOSIGN | QUSER | PENTA401 | H | JMS | | | |
| 02/09/98 | 1:56:36 | QZSOSIGN | QUSER | 239178 | QZSOSIGN | JMS | PENTA401 | H | QUSER | | | |
| 02/09/98 | 1:56:38 | QZSCSRVS | QUSER | 239371 | QZSCSRVS | QUSER | PENTA401 | H | JMS | | | |

The following Entry Types may be included on the report:

- A** A target user profile was changed during a pass-thru session.
- E** An OfficeVision/400 user ended work on behalf of another user.
- H** A profile handle was generated through the QSYGETPH API.
- S** An OfficeVision/400 user started work on behalf of another user.

Option 4 Network Resource Access

This report lists all instances of accesses to network resources.

Purpose

Use this report to review accesses to network resources. An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

Object auditing value of *CHANGE must be in use for the resources.

| | |
|----------|----------------------------------|
| A | Resource attributes modified |
| C | Instance of the resource created |
| D | Resource deleted |
| P | Resource permissions modified |
| R | Data read or run from a resource |
| W | Data written to resource |
| X | Resource was run |

The following Status Codes may be included on the report:

- F** Resource access failed
- S** Resource access succeeded

Option 5 Network Password Errors

This report lists all attempts to sign-on to the network using either an invalid password or a user profile that does not exist or because of a failed APPC bind.

Purpose

Use this report to monitor attempts to gain access to the network.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *AUTFAIL.

| | | | | | | | | | | | | |
|-------------------|----------|-------------------------|----------|--------|---------|--------------|----------|---------|---------|-------------|------------------|-----------|
| 02/10/98 19:40:39 | | Network password errors | | | | | | | | | PAGE | |
| AACL28VP | | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Err Typ | Server | Date Logged | Name of Computer | User Name |
| 02/09/98 | 5:59:41 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | ASST | MLD |
| 02/09/98 | 7:20:10 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | ACCOUNTI | ASR |
| 02/09/98 | 7:20:10 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | ACCOUNTI | ASR |
| 02/09/98 | 8:17:15 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | REH | |
| 02/09/98 | 8:20:00 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | STEVE NE | SBN |
| 02/09/98 | 8:27:54 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | PIKEITH | KAK |
| 02/09/98 | 8:38:21 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | OPER | KNM |
| 02/09/98 | 12:21:58 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | STEVE NE | SBN |
| 02/09/98 | 12:32:00 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | OPER | KNM |
| 02/09/98 | 13:50:04 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | SAL | MLD |
| 02/09/98 | 13:50:04 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | SAL | MLD |
| 02/09/98 | 13:50:20 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | SAL | MLD |
| 02/09/98 | 13:50:20 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | SAL | MLD |
| 02/09/98 | 13:50:30 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | P | PENTANS | 98/02/09 | SAL | MLD |

The following Entry Types may be included on the report:

- P** An incorrect network password was used
- U** An incorrect user id was entered
- A** An APPC bind failed

Option 6 FTP Logon and Server Requests

This report lists FTP server log-ons and FTP client and server requests.

Purpose

Use this report to monitor access to the TCP/IP application's FTP client and server programs, as well as regular FTP server log-on requests.

Note

The QMAXSIGN system value applies to TELNET but not to FTP. With FTP, the system breaks the connection after 5 unsuccessful sign-on attempts, but the user can simply establish a new connection. Theoretically, an FTP user has unlimited attempts to break into your system.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

The appropriate PSAudit Exit Program must be registered for the following Exit Points/Formats:

| Exit Point | Format |
|----------------------|----------|
| QIBM_QTMF_CLIENT_REQ | VLRQ0100 |
| QIBM_QTMF_SERVER_REQ | VLRQ0100 |
| QIBM_QTMF_SVR_LOGON | TCPL0100 |

| | | | | | | | | | | |
|---|--------------|-----|-----|-------------------------------|------------------------|----------|--------------|---------------------------------|------|-------|
| Rpt Id: NW000007 | | | | FTP Logon and Server Requests | | | | Date: 10/09/08 | | Page: |
| System: SERVER1 | | | | | | | | Time: 9:52:55 | | |
| Selection Criteria: | | | | | | | | | | |
| User Name : *ALL | | | | | | | | | | |
| Transactions . . . : *ALL | | | | | | | | | | |
| From Date/Time . . : 01/09/08 0:00:00 | | | | | | | | | | |
| To Date/Time . . . : 10/09/08 23:59:59 | | | | | | | | | | |
| Filter Name : *NONE | | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | |
| Date | Time | RRM | DMA | Entry | Job Id | Incoming | Incoming | ----- Operations ----- | Swap | |
| | | P/F | P/F | Type | Name/User/Nbr | User | Address | Server Function Command Profile | Syst | |
| 09/09/08 18:38:49 | 10.20.102.48 | P | P | DM | QTFTP00024/QTCP/059727 | QTCP | 10.20.158.26 | FTPSRV INIT | SVR0 | |
| 09/09/08 18:38:52 | | P | P | DM | QTFTP00024/QTCP/059727 | JSK | 10.20.158.26 | FTPSRV LOGON | SVR0 | |
| 09/09/08 18:39:01 | | P | P | DM | QTFTP00024/QTCP/059727 | JSK | 10.20.158.26 | FTPSRV RECEIVE | SVR0 | |
| /QSYS.LIB/PMB.LIB/TSTSAVF.FILE | | | | | | | | | | |
| 10/09/08 07:14:42 | 10.20.102.48 | P | P | DM | QTFTP00023/QTCP/059735 | QTCP | 10.20.158.26 | FTPSRV INIT | SVR0 | |
| 10/09/08 07:14:42 | | P | P | DM | QTFTP00023/QTCP/059735 | SMITHJ | 10.20.158.26 | FTPSRV LOGON | SVR0 | |
| More... | | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | |

The following Entry Types may be included on the report:

- FC** FTP Client request
- FS** FTP Server request
- FL** FTP Log-on server request

The following Operation Codes, valid for Entry Types FC and FS, may be listed:

- 0** Session initialization
- 1** Directory library creation

- 2 Directory library deletion
- 3 Set current directory
- 4 List files
- 5 File deletion
- 6 Sending file
- 7 Receiving file
- 8 Renaming file
- 9 Execute CL command

Option 3 User and Object Reports Menu

| | | | |
|---|---------------------------------|----------------|----------------|
| PA153 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | User and Object Reports Menu | QPADEV000Q | Time: 16:42:45 |
| Select one of the following: | | | |
| 1 Command Usage by User | | | |
| 2 Command Usage by Command | | | |
| 3 DST Sec0fr Password Reset | | | |
| 4 All Security Reports for a User | | | |
| 5 Programs That Adopt Authority | | | |
| 6 Objects being Audited | | | |
| 7 Objects Accessed (Changed) | | | |
| 8 Objects Accessed (Read) | | | |
| 9 SQL/QRV Audit Report | | | |
| Enter Option or Function/Type ==> _____ | | | |
| F1=Help | F3=Exit | F6=Messages | F9=Window |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |
| F10=Cmd Line | | | |

Option 1 Command Usage By User

This report lists all the commands executed by a user.

Purpose

Use this report as needed, either to review the commands executed by a certain user, such as the security officer, or to find whether a certain command was executed by a certain user.

The report identifies, among other things, the specific command, the full command string with parameters used, the qualified job name, an indicator of whether the command was run from a command line or from a program, and the program name, if applicable.

If a command is run from a CL program that is created with LOG(*NO) and ALWRTVSRG(*NO), only the command name and library are logged.

Prerequisites

The User Action Auditing (AUDLVL) parameter of the user profile must specify *CMD. The AUDLVL parameter value can be changed using the Change User Auditing (CHGUSRAUD) command.

| | | | | | | | | | | | | |
|--|----------|-------|----------|---------|-----------------------|----------|----------|---|------------|---------|---------|---------|
| 02/10/98 19:42:43 | | | | | Commands Used by User | | | | | | | PAG |
| User | System | Entry | Command/ | Library | CL | Date | 'Time | ' | Job | Job | Job | Program |
| Profile | Name | Type | Obj Name | | Pgm | | | | Name | User | Number | Name |
| Command String | | | | | | | | | | | | |
| QSECOFR | PENTA401 | C | ADDLIB | QSYS | Y | 02/10/98 | 9:03:19 | | DSP01 | QSECOFR | 240,005 | ALCL11 |
| ADDLIB LIB (PSAUDIT) | | | | | | | | | | | | |
| QSECOFR | PENTA401 | C | ADDLIB | QSYS | Y | 02/10/98 | 11:16:51 | | QPADEV0016 | | 240,152 | 2PCL47 |
| ADDLIB LIB (PSSECURE) | | | | | | | | | | | | |
| QSECOFR | PENTA401 | C | ADDLIB | QSYS | Y | 02/10/98 | 11:17:23 | | QPADEV0016 | | 240,152 | ALCL11 |
| ADDLIB LIB (PSAUDIT) | | | | | | | | | | | | |
| QSECOFR | PENTA401 | C | ADDLIB | QSYS | Y | 02/10/98 | 12:46:42 | | QPADEV0016 | | 240,250 | 2PCL47 |
| ADDLIB LIB (PSSECURE) | | | | | | | | | | | | |
| QSECOFR | PENTA401 | C | ADDLIB | QSYS | Y | 02/10/98 | 12:49:25 | | QPADEV0016 | | 240,250 | ALCL11 |
| ADDLIB LIB (PSAUDIT) | | | | | | | | | | | | |
| QSECOFR | PENTA401 | C | ALCOBJ | QSYS | Y | 02/10/98 | 9:03:25 | | DSP01 | | 240,005 | ALCL02 |
| ALCOBJ OBJ ((ALPF01 *FILE *SHRUPD)) WAIT (2) | | | | | | | | | | | | |
| QSECOFR | PENTA401 | C | ALCOBJ | QSYS | Y | 02/10/98 | 11:17:29 | | QPADEV0016 | | 240,152 | ALCL02 |
| ALCOBJ OBJ ((ALPF01 *FILE *SHRUPD)) WAIT (2) | | | | | | | | | | | | |

The following Entry Types may be included on the report:

- C** A command was run
- L** An S/36E control language statement was run
- O** An S/36E operator control command was run

- P AN S/36E procedure was run
- U An S/36E utility control statement was run

Option 2 Command Usage By Command

This report lists all executions of the specified command(s).

Purpose

Use this report as needed to review usage of certain commands for all audited users (CHGUSRAUD). The report is sorted by command name if all commands are requested. The report identifies, among other things, the specific command, the full command string with parameters used, the qualified job name, an indicator of whether the command was run from a command line or from a program, and the program name, if applicable.

If a command is run from a CL program that is created with LOG(*NO) and ALWRTVSRG(*NO), only the command name and library are logged.

Prerequisites

The User Action Auditing (AUDLVL) parameter of the user profiles must specify *CMD. The AUDLVL parameter value can be changed using the Change User Auditing (CHGUSRAUD) command.

| | | | | | | | | | | | | | |
|--|---------|---------------------------------|-------------|------------|--------|----------|----------|---|------------|----------|------------|--------------|------|
| 02/10/98 20:03:08 | | Commands Used Sorted by Command | | | | | | | | | | | PAGE |
| Command/Obj Name | Library | User Profile | System Name | Entry Type | CL Pgm | Date | 'Time | ' | Job Name | Job User | Job Number | Program Name | |
| AACL28CC | | | | | | | | | | | | | |
| Command String | | | | | | | | | | | | | |
| ADDBKP | QSYS | REH | PENTA401 | C | Y | 02/10/98 | 16:49:04 | | QPADEV0058 | REH | 240,446 | QIXASTR | |
| | QSYS | REH | PENTA401 | C | N | 02/10/98 | 16:50:45 | | QPADEV0058 | REH | 240,446 | QIXAOPT | |
| ADDBKP STMT(10200) BKPPGM(*LIBL/QIXAGRD) | | | | | | | | | | | | | |
| | QSYS | REH | PENTA401 | C | N | 02/10/98 | 16:50:48 | | QPADEV0058 | REH | 240,446 | QIXAOPT | |
| ADDBKP STMT(12000) BKPPGM(*LIBL/QIXAGRD) | | | | | | | | | | | | | |
| | QSYS | REH | PENTA401 | C | N | 02/10/98 | 16:50:52 | | QPADEV0058 | REH | 240,446 | QIXAOPT | |
| ADDBKP STMT(13200) BKPPGM(*LIBL/QIXAGRD) | | | | | | | | | | | | | |
| | QSYS | REH | PENTA401 | C | N | 02/10/98 | 16:59:06 | | QPADEV0058 | REH | 240,446 | QIXAOPT | |
| ADDBKP STMT(6100) BKPPGM(*LIBL/QIXAGRD) | | | | | | | | | | | | | |
| | QSYS | REH | PENTA401 | C | N | 02/10/98 | 16:59:08 | | QPADEV0058 | REH | 240,446 | QIXAOPT | |
| ADDBKP STMT(6800) BKPPGM(*LIBL/QIXAGRD) | | | | | | | | | | | | | |
| | QSYS | REH | PENTA401 | C | Y | 02/10/98 | 17:03:31 | | QPADEV0058 | REH | 240,446 | QIXASTR | |
| | QSYS | REH | PENTA401 | C | N | 02/10/98 | 17:06:48 | | QPADEV0058 | REH | 240,446 | QIXAOPT | |
| ADDBKP STMT(6200) BKPPGM(*LIBL/QIXAGRD) | | | | | | | | | | | | | |

The following Entry Types may be included on the report:

- C** A command was run
- L** An S/36E control language statement was run
- O** An S/36E operator control command was run
- P** AN S/36E procedure was run
- U** An S/36E utility control statement was run

Option 3 DST SecOfr Password Reset

This report lists any requests to reset the Dedicated Service Tools (DST) Security Officer password to the system-supplied default.

Purpose

Use this report monthly to review when the Dedicated Service Tools (DST) Security Officer password was reset to the system-supplied default.

The password can be reset only by QSECOFR, using the Change DST Password (CHGDSTPWD) command or from the system console using the Dedicated Service Tools (DST) special procedure.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | |
|---|---------|---------------------|------|--------|---------|---------|----------|-------|----------|---|
| Dedicated Service Tools (DST) Password Resets Report | | | | | | | | | | |
| AACL28DS | | | | | | | | | | |
| QUERY NAME AAQYDS | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP QASYDSJE QASYDSJE | | | | | | | | | | |
| DATE 07/13/99 | | | | | | | | | | |
| TIME 10:15:49 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| 07/13/99 10:15:49 | | DST Password Resets | | | | | | | PAGE | 1 |
| AACL28DS | | | | | | | | | | |
| DATE | TIME | JOB | JOB | JOB | PROGRAM | USER | SYSTEM | ENTRY | DST | |
| | | NAME | USER | NUMBER | NAME | PROFILE | NAME | TYPE | PASSWORD | |
| 02/09/98 | 7:02:20 | PENTANS D | QSYS | 235225 | QCMD | QSYS | PENTA401 | C | RESET | |
| | | | | | | | | | 98/02/09 | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

Option 4 All Security Reports For A User

This option will run a series of security reports for specified and generic users at the same time.

Purpose

This report will save you time when you need to audit a specific user.

Prerequisites

Most reports require system value QAUDLVL to specify *SECURITY, while others require *DELETE, *PGMADP, *SAVRST, *AUTFAIL and optionally, *PGMFAIL. Other reports need the User Action Auditing (AUDLVL) parameter of the user profile to specify *CMD.

The following list identifies the reports that may be produced by this option:

| REPORT | DESCRIPTION |
|----------|--|
| AACL28AD | Object auditing attribute change |
| AACL28AF | Authority failure |
| AACL28AP | Obtaining adopted authority |
| AACL28CA | Change of authority |
| AACL28CD | Command Usage By User |
| AACL28CO | Object created |
| AACL28CP | User profile changed, created, or restored |
| AACL28CQ | Change request description (*CRQD) object change |
| AACL28DB | Database Server Requests |
| AACL28DD | DDM Request Access |
| AACL28DO | Object deleted |
| AACL28DS | DST security password reset |
| AACL28D2 | Deleted Office Documents |

| REPORT | DESCRIPTION |
|----------|---|
| AACL28FT | FTP Logon and Server Requests |
| AACL28GS | Socket description was given to another job |
| AACL28IP | Interprocess communication |
| AACL28JD | Change to USER parameter of a job description |
| AACL28JS | Actions that affect jobs |
| AACL28LD | Link/unlink/lookup directory entry |
| AACL28ML | Office services mail actions |
| AACL28NA | Change to network attribute |
| AACL28ND | APPN Directory search filter violation |
| AACL28NE | APPN End point filter violation |
| AACL28NP | Network Print Server Entry Requests |
| AACL28NS | Network Print Server Spooled File Requests |
| AACL28OM | Object management change (move, rename) |
| AACL28OR | Object restore |
| AACL28OW | Object ownership change |
| AACL28PA | Program changed to adopt authority |
| AACL28PF | File Server Requests |
| AACL28PG | Change of an object's primary group |
| AACL28PO | Printed output |
| AACL28PS | Process user profile exchange (profile swap) |
| AACL28PV | Original Virtual Print Server request |
| AACL28PW | Password or user ID not valid |
| AACL28QQ | Data Queue Original Server Requests |

| REPORT | DESCRIPTION |
|----------|---|
| AACL28QR | Remote SQL Server requests |
| AACL28RA | Authority change during restore |
| AACL28RC | Remote Command/Distributed Program Call Server Requests |
| AACL28RJ | Restoring job description with user profile specified |
| AACL28RO | Change of object owner during restore |
| AACL28RP | Restoring adopted authority program |
| AACL28RQ | Change request description (*CRQD) object restored |
| AACL28RU | Restoring user profile authority |
| AACL28RZ | Changing a primary group during restore |
| AACL28SD | Changes to system distribution directory |
| AACL28SE | Subsystem routing entry changed |
| AACL28SF | Actions to spooled files |
| AACL28SM | Systems management changes |
| AACL28ST | Use of service tools |
| AACL28SV | Change to system value |
| AACL28TC | TCP Signon Server requests |
| AACL28TF | Transfer Function Server Requests |
| AACL28VA | Changing an access control list (ACL) |
| AACL28VC | Starting or ending a connection |
| AACL28VF | Server files closed |
| AACL28VL | Account limit exceeded |
| AACL28VN | Logging on and off the network |
| AACL28VP | Network password error |

| REPORT | DESCRIPTION |
|----------|---|
| AACL28VR | Network resource access |
| AACL28VS | Starting or ending a server session |
| AACL28VU | Network profile change |
| AACL28VV | Service status change |
| AACL28YC | DLO object accessed (change) |
| AACL28YR | DLO object accessed (read) |
| AACL28ZC | Object accessed (change) |
| AACL28ZQ | Data Queue Optimized Server Requests |
| AACL28ZR | Object accessed (read) |
| AACL28SU | Summary of Security Reports for a Specific User |

Option 5 Programs That Adopt Authority

This report lists programs that have adopted the authority of the owner.

Purpose

Use this report as needed to review the list of programs that were created or changed to adopt the authority of the program's owner. Since these programs pose a security risk, the security administrator should clearly understand the purpose of each program and why it is necessary for it to adopt its owner's authority.

A program can adopt authority if a value of *OWNER is specified for the USRPRF parameter on the CRTxxxPGM or CHGPGM command.

If a program adopts its owner's authority and the owner is QSECOFR, that program could be used to perform the functions of the Security Officer.

Prerequisites
None.

| 02/10/98 | 21:02:26 | AAQY16 | | | Programs That Adopt Authority Omitting System Domain Objects | PAGE | 1 |
|----------------|----------|-----------|----------------|-----------------|---|------|---|
| System Name | Object | Library | Object Type | Program ATTR | Text Description | | |
| PENTA401 | QCCEXIT1 | #CCULIB | *PGM | CLP | | | |
| PENTA401 | QDSEXIT1 | #DFULIB | *PGM | CLP | | | |
| PENTA401 | QSUEXTED | #DSULIB | *PGM | CLP | | | |
| PENTA401 | QDSEXIT1 | #SDALIB | *PGM | CLP | | | |
| PENTA401 | QSUEXTSE | #SEULIB | *PGM | CLP | | | |
| PENTA401 | XDM0000 | BIGN | *PGM | CLP | Document Reformat Driver | | |
| PENTA401 | XDM0001 | BIGN | *PGM | CLP | Document Reformat | | |
| PENTA401 | XDC0000 | BIGNXDUSR | *PGM | CBL | Move Document Text | | |
| PENTA401 | XDC0001 | BIGNXDUSR | *PGM | CBL | Retrieve New Form | | |
| PENTA401 | XDC2000 | BIGNXDUSR | *PGM | CBL | Resequence Move Records | | |
| PENTA401 | XDM0000 | BIGNXDUSR | *PGM | CLP | Document Reformat Driver | | |
| PENTA401 | XDM0001 | BIGNXDUSR | *PGM | CLP | Document Reformat | | |
| PENTA401 | XDM0100 | BIGNXDUSR | *PGM | CLP | Document Reformat Driver - Print | | |
| PENTA401 | XDM0110 | BIGNXDUSR | *PGM | CLP | Document Reformat - Print | | |
| PENTA401 | XDM0200 | BIGNXDUSR | *PGM | CLP | Document Reformat Driver - No Print | | |

Option 6 Objects Being Audited

Use this report to list all objects that have been flagged for auditing.

Purpose

This report can be used to generate a list of objects being audited from which objects of type *CMD can be visually extracted for input to the Command Usage Report By Command.

Object auditing can be changed using the Change Object Auditing (CHGOBJAUD) command.

Prerequisites
None.

| | | | | | | | | |
|--------------------------|--------|----------|-----------------------|---------|-------------|----------|---------------------------|------|
| AACL33CA | | | Objects being Audited | | | 21:02:44 | 2/10/98 | PAGE |
| SELECTION CRITERIA: | | | | | | | | |
| LIBRARY : QGPL | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CHG DATE | OWNER | AUDIT VALUE | SYSTEM # | OBJECT TEXT | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | |
| QGPL | STRAA | *CMD | 1/15/98 | QSECOFR | *ALL | PENTA401 | V-AA4.0 (c) 1997 PentaSaf | |
| LIBRARY TOTAL: | | 1 | | | | | | |
| TOTAL OBJECTS AUDITED: | | 1 | | | | | | |

Option 7 Objects Accessed (Changed)

This report lists all changed objects.

Purpose

Use this report to list all objects that have been accessed for CHANGE.

Prerequisites

The Object Auditing (OBJAUD) parameter of the object must specify *CHANGE. The OBJAUD parameter value can be changed using the Change Object Auditing (CHGOBJAUD) command.

| | | | | | | | | | | | | | |
|----------------------|----------|-----------------------------|----------|--------|---------|--------------|----------|-----|--------|-----------|----------|----------|--|
| 02/10/98 21:06:22 | | Objects Accessed For Change | | | | | | | | | | PAGE | |
| | | ACL282C | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent | Object | Library | Obj Type | Acc Type | |
| ----- | | | | | | | | | | | | | |
| Access Specific Data | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| 02/09/98 | 13:25:46 | QPADEV0082 | GAS | 239661 | QCMD | GAS | PENTA401 | C | SOURCE | LEXSRC400 | *FILE | 30 | |
| PSLSTOBJDC | | | | | | | | | | | | | |
| 02/09/98 | 13:25:47 | QPADEV0082 | GAS | 239661 | QCMD | GAS | PENTA401 | C | SOURCE | LEXSRC400 | *FILE | 10 | |
| PSLSTOBJDC | | | | | | | | | | | | | |
| 02/09/98 | 13:25:47 | QPADEV0082 | GAS | 239661 | QCMD | GAS | PENTA401 | C | SOURCE | LEXSRC400 | *FILE | 30 | |
| PSLSTOBJDC | | | | | | | | | | | | | |
| 02/09/98 | 13:25:47 | QPADEV0082 | GAS | 239661 | QCMD | GAS | PENTA401 | C | SOURCE | LEXSRC400 | *FILE | 30 | |
| PSLSTOBJDC | | | | | | | | | | | | | |
| 02/09/98 | 13:35:41 | QPADEV0082 | GAS | 239661 | QCMD | GAS | PENTA401 | C | SOURCE | LEXSRC400 | *FILE | 30 | |
| PSLSTOBJDC | | | | | | | | | | | | | |
| 02/09/98 | 13:35:41 | QPADEV0082 | GAS | 239661 | QCMD | GAS | PENTA401 | C | SOURCE | LEXSRC400 | *FILE | 10 | |
| PSLSTOBJDC | | | | | | | | | | | | | |

The Acc Type column in the Objects Accessed for Change Report above, refers to the type of access. The following table lists all possible code:

| Code | Access Type | Code | Access Type | Code | Access Type |
|------|------------------|------|-------------|------|-------------|
| 1 | Add | 22 | File | 43 | Retrieve |
| 2 | Activate Program | 23 | Grant | 44 | Run |
| 3 | Analyze | 24 | Hold | 45 | Revoke |
| 4 | Apply | 25 | Initialize | 46 | Save |

| Code | Access Type | Code | Access Type | Code | Access Type |
|------|----------------|------|-------------|------|-----------------------------|
| 5 | Call or TFRCTL | 26 | Load | 47 | Save with Storage Free |
| 6 | Configure | 27 | List | 48 | Save and Delete |
| 7 | Change | 28 | Move | 49 | Submit |
| 8 | Check | 29 | Merge | 50 | Set |
| 9 | Close | 30 | Open | 51 | Send |
| 10 | Clear | 31 | Print | 52 | Start |
| 11 | Compare | 32 | Query | 53 | Transfer |
| 12 | Cancel | 33 | Reclaim | 54 | Trace |
| 13 | Copy | 34 | Receive | 55 | Verify |
| 14 | Create | 35 | Read | 56 | Vary |
| 15 | Convert | 36 | Reorganize | 57 | Work |
| 16 | Debug | 37 | Release | 58 | Read/Chang DLO Attribute |
| 17 | Delete | 38 | Remove | 59 | Read/Chang DLO Security |

| Code | Access Type | Code | Access Type | Code | Access Type |
|------|-------------|------|-------------|------|-----------------------------|
| 18 | Dump | 39 | Rename | 60 | Read/Chang DLO Content |
| 19 | Display | 40 | Replace | 61 | Read/Chang DLO all parts |
| 20 | Edit | 41 | Resume | 62 | Add Constraint |
| 21 | End | 42 | Restore | 63 | Change Constraint |
| | | | | 64 | Remove Constraint |
| | | | | 65 | Start Procedure |
| | | | | 66 | Free |

Option 8 Objects Accessed (Read)

This report lists all objects that have been accessed for READ.

Purpose

Use this report to list objects that have been accessed for READ.

Prerequisites

The Object Auditing (OBJAUD) parameter of the object must specify *ALL. The OBJAUD parameter value can be changed using the Change Object Auditing (CHGOBJAUD) command.

| 02/10/98 21:07:29 | | | | | Objects Accessed For Read AACL282R | | | | | PAGE 1 | | |
|----------------------|---------|------------|----------|--------|---------------------------------------|--------------|----------|---------|-----------------|---------|----------|----------|
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ | Object Accessed | Library | Obj Type | Acc Type |
| Access Specific Data | | | | | | | | | | | | |
| 02/09/98 | 9:34:43 | QFADEV0004 | EHD | 239523 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:34:54 | QFADEV0004 | EHD | 239523 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:34:55 | QFADEV0056 | EHD | 239524 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:35:04 | QFADEV0056 | EHD | 239524 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:35:08 | QFADEV0002 | EHD | 239525 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:35:17 | QFADEV0002 | EHD | 239525 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:35:24 | QFADEV0068 | EHD | 239526 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:35:33 | QFADEV0007 | EHD | 239527 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:35:37 | QFADEV0068 | EHD | 239526 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:35:42 | QFADEV0007 | EHD | 239527 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:40:39 | QFADEV0004 | EHD | 239523 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |
| 02/09/98 | 9:59:25 | QFADEV0004 | EHD | 239523 | BGNGRPJOB | EHD | PENTA401 | R | GPFC011 | EHD | *PGM | 5 |

Option 9 SQL/QRY Audit Report

This option runs the SQL Audit Report. The report shows the actual SQL and/or Query (QRY) statements executed within monitored jobs.

Before running the SQL Auditing Report, SQL related commands must be audited. Use “Option 28 Work with SQL/QRy Auditing” on page 233 to set up SQL & Query commands to be audited. The SQL Audit monitor must be started to capture necessary data. See “Option 26 Start SQL/QRy Monitor” on page 232.

PA153

PentaSafe Security Technologies, Inc CAS

Date: 1/15/01

User and Object

PSAudit Submittal Window

Select one of the following:

1 Command Usage by User

2 Command Usage by Command

3 DST SecOftr Password Reset

4 All Security Reports for a

5 Programs That Adopt Authori

6 Objects being Audited

7 Objects Accessed (Changed)

8 Objects Accessed (Read)

9 SQL/QRy Audit Report

Enter Option or Function/Type

F1=Help

F3=Exit

F12=Previous

F13=Attention

SQL Audit Report

User Profile *ALL

From date 122100 MDY

To date 122100 MDY

Print Detail (Y N) N

Filter name. DEFAULT

Output file, *NONE . . *NONE

Library

*Replace *Add records. *REPLACE

Run interactively. . . *YES (*YES-*NO)

Journal File *NONE

Journal Library . . .

OUTQ QPRINT

JOBQ QBATCH

Hold on job queue . . *NO (*YES-*NO)

Enter=Submit F3=Exit F7=Schedule F9=Filter

The Submittal Window will prompt for a ‘User Profile’ name. For this report, the ‘User Profile’ prompt refers to the name of the user who issued the SQL/QRy statements.

The ‘Print Detail’ prompt allows you to choose between running a Detail ‘Y’ or Summary ‘N’ Audit Report of SQL/QRy statement. Both reports show the same information with one difference. The Detail Report shows the entire SQL statement up to 2034 characters per statement, whereas the Summary Report shows only the first line of the SQL statement up to 120 characters.

SQL/QRY Audit Report Summary

The SQL/QRY Audit report displays the actual SQL and/or Query (QRY) statements executed within audited jobs. Before running the SQL Auditing Report, SQL related commands must be audited. The SQL Audit monitor must be started to capture necessary data. The SQL Audit monitors should be started using the PSASQLMON command, or the SQL/QRY Audit Monitor screen (Option 26) from the System Setup and Defaults menu.

| SQL/QRY Audit Report - Detail | | | | | | | | | | 14:14:21 | 3/11/03 | Page | 1 |
|---|---------|----------|----------|------------|------|-------------|------------|----------------|----------|----------|---------|------|---|
| User Name | Date | Time | Job Name | Job Number | Type | System Name | Library | File / Command | Member | | | | |
| HEATHER | 3/11/03 | 14:11:54 | HOUDEV01 | 679127 | Cmd | SYSTEM | QSYS | RUNQRY | | | | | |
| RUNQRY QRYFILE((SAR0521F)) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:11:55 | HOUDEV01 | 679127 | Data | SYSTEM | HEATHER | SAR0521F | SAR0521F | | | | |
| HEATHER | 3/11/03 | 14:12:03 | HOUDEV01 | 679127 | Cmd | SYSTEM | QSYS | STRSQL | | | | | |
| STRSQL | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:12:08 | HOUDEV01 | 679127 | Data | SYSTEM | HEATHER | SAR0520F | SAR0520F | | | | |
| INSERT INTO BDALE/SAR0520F (JOENTL, JOUSER) VALUES (?, ?) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:12:22 | HOUDEV01 | 679127 | Data | SYSTEM | PSAUDIT | SAR0521F | SAR0521F | | | | |
| delete FROM psaudit/sar0521f WHERE QQUSER != ? or QQUSER != ? BD4, BD1 | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:13:57 | HOUDEV01 | 679127 | Cmd | SYSTEM | QSYS | STRQMPCRC | | | | | |
| QSYS/STRQMPCRC SRCMBR (STRQMPCRS) SRCFILE (SQLQRYTEST/SOURCE) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:14:01 | HOUDEV01 | 679127 | Data | SYSTEM | SQLQRYTEST | AAPF10_1 | AAPF10 | | | | |
| SELECT A.ODLBNM, A.ODOBNM, A.ODOBTP, A.ODOBAT, A.ODOBFR, A.ODOBSZ, A.ODOBTX, A.ODOBDM, A.ODCDAT, A.ODCTIM, A.ODOBOW, A.ODSDAT, A.ODRDAT, A.ODRTIM, A.ODCPFL, A.ODSRCF, A.ODSRCL, A.ODSRCM, A.ODSRCD, A.ODSRCT, A.ODLDAT, A.ODLTIM, A.ODOBSY, A.ODCRTU, A.ODCRTS, A.ODUUPD, A.ODUDAT, A.ODUCNT, A.ODTDTAT, A.ODODMN, A.ODAUDT, A.ODSIZU FROM "SQLQRYTEST"/"AAPF10" A | | | | | | | | | | | | | |
| ERE (A.ODOBTP = ?) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:14:01 | HOUDEV01 | 679127 | Cmd | SYSTEM | QSYS | STRQMPCRC | | | | | |
| QSYS/STRQMPCRC SRCMBR (STRQMPCRS) SRCFILE (SQLQRYTEST/SOURCE) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:14:04 | HOUDEV01 | 679127 | Data | SYSTEM | SQLQRYTEST | AAPF10_2 | AAPF10 | | | | |
| SELECT A.ODLBNM, A.ODOBNM, A.ODOBTP, A.ODOBAT, A.ODOBFR, A.ODOBSZ, A.ODOBTX, A.ODOBDM, A.ODCDAT, A.ODCTIM, A.ODOBOW, A.ODSDAT, A.ODRDAT, A.ODRTIM, A.ODCPFL, A.ODSRCF, A.ODSRCL, A.ODSRCM, A.ODSRCD, A.ODSRCT, A.ODLDAT, A.ODLTIM, A.ODOBSY, A.ODCRTU, A.ODCRTS, A.ODUUPD, A.ODUDAT, A.ODUCNT, A.ODTDTAT, A.ODODMN, A.ODAUDT, A.ODSIZU FROM "SQLQRYTEST"/"AAPF10" A | | | | | | | | | | | | | |
| ERE (A.ODOBTP = ?) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:14:04 | HOUDEV01 | 679127 | Cmd | SYSTEM | QSYS | STRQMPCRC | | | | | |
| QSYS/STRQMPCRC SRCMBR (STRQMPCRC) SRCFILE (SQLQRYTEST/SOURCE) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:11:36 | HOUDEV02 | 679137 | Cmd | SYSTEM | QSYS | OPNQRYF | | | | | |
| QSYS/OPNQRYF FILE((SAR0515F1A)) FORMAT(SAR0515F1A) KEYFLD((AA3_CMD) (AA3_CMD_L) (AA3_CFP) (AA3_CFP_L) (AA3_AUDIT) (AA3_LERT) (AA3_CMD_D)) OPNID(SAR0515F1A) | | | | | | | | | | | | | |
| HEATHER | 3/11/03 | 14:11:36 | HOUDEV02 | 679137 | Data | SYSTEM | PSAUDIT | SAR0515F | SAR0515F | | | | |
| ===== | | | | | | | | | | | | | |
| Total number of commands : | | | | 6 | | | | | | | | | |
| Total number of statements : | | | | 6 | | | | | | | | | |
| Total number of entries : | | | | 12 | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | |

The SQL/QRY Audit report displays the following data:

User Name: Displays the name of the user who issued the command or SQL statement.

Date: Displays the date the command or SQL statement was executed in the system-defined date format.

Time: Displays the time the command or SQL statement was executed in *HH:MM:SS* format, where *HH* is the hour in 24-hour time, *MM* is the minute, and *SS* is the second.

Job Name: Displays the name of the job used to execute the command or SQL statement.

Job Number: Displays the number of the job used to execute the command or SQL statement.

Type: Displays whether a command (CMD) or SQL statement (DATA) was executed.

System Name: Displays the name of the system where the command or SQL statement was executed.

Library: Displays the name of the library where the command or file is located.

File/Command: Displays the file that was accessed, or the command that was executed.

Member: Displays the name of the file member that was accessed.

Note

Each statement can have one to ten lines of details displayed. When running the report, if the Print Detail (Y N) field is set to N, then only one line of information is displayed for each statement. If the Print Detail (Y N) field is set to Y, then up to ten lines of information are displayed for each statement.

Also, only the first host variable will be shown at the end of detail line SQL statements containing host variables.

Note

If an SQL statement is invalid, then no data line will be displayed on the report. For example, a data line is not displayed for the SQL statement `SELECT* FROM Invalid File`.

If an SQL statement that should be associated with a data line does not display, then the SQL statement was valid but unsuccessful.

Option 4 Network & Server Reports Menu

| | | | |
|---|------------------------------------|----------------|----------------------------|
| PA154 | NetIQ Corporation | KRAMERM | Date: 9/22/08 |
| | Network & Server Reports Menu | QPADEV0005 | Time: 10:46:57 |
| Select one of the following: | | | |
| 1 | Changes To System Values | 14 | Account Limits Exceeded |
| 2 | Changes to Network Attributes | 15 | Descriptors Given |
| 3 | Changes to *CRQD Objects | 20 | Remote Transaction Reports |
| 4 | APPN Dir Search Filter Violations | | |
| 5 | APPN End Point Filter Violations | | |
| 6 | System Distribtn Directory Changes | | |
| 7 | Closing Server Files | | |
| 8 | Starting or Ending a Connection | | |
| 9 | Logging On and Off the Network | | |
| 10 | Network Resource Access | | |
| 11 | Starting/Ending a Server Session | | |
| 12 | Changes to Network Profiles | | |
| 13 | Access Control List (ACL) Changes | | |
| Enter Option or Function/Type ==> _____ | | | |
| F1=Help | F3=Exit | F6=Messages | F9=Window |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |
| F10=Cmd Line | | | |

Option 1 Changes To System Values

This report shows the before and after change values for System Values.

Purpose

Use this report to review changes to system values, some of which are performance-related and can drastically impact your system if changed improperly. Other system values affect the security of your system (i.e., whether QSECOFR can sign-on to all or only selected workstations).

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | |
|-----------------------------------|------------|----------|--------------|------------|------------|----------|---------|-----------|-------------|------|
| Changes to System Values Report | | | | | | | | | | |
| AACL28SV | | | | | | | | | | |
| QUERY NAME AAQYSV | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY | | | | | | | | | | |
| AAOUT QTEMP | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | |
| TIME 12:16:01 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| Changes to System Values | | | | | | | | | | |
| AACL28SV | | | | | | | | | | PAGE |
| 07/12/99 | 12:16:01 | | | | | | | | | |
| System Value | Date | Time | User Profile | Entry Type | Job Name | Job User | Job Nbr | Program | System Name | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| Old Value | | | | | | | | | | |
| New Value | | | | | | | | | | |
| ----- | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:42:31 | CLS | A | QPADEV000B | CLS | 51865 | \$CLSTART | ISIS | |
| MDY | | | | | | | | | | |
| DMY | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:42:35 | CLS | A | QPADEV000B | CLS | 51865 | \$CLSTART | ISIS | |
| MDY | | | | | | | | | | |
| DMY | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:47:40 | SGS | A | QPADEV000F | SGS | 51947 | MSCL120 | ISIS | |
| MDY | | | | | | | | | | |
| DMY | | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:47:45 | SGS | A | QPADEV000F | SGS | 51947 | MSCL120 | ISIS | |
| MDY | | | | | | | | | | |
| DMY | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

The following Entry Types may be included:

- A** A system value was changed
- B** Service attributes were changed

Option 2 Changes To Network Attributes

This report shows the before and after change values for Network Attributes.

Purpose

Use this report to review changes to Network Attributes, some of which are associated with remote users, personal computers, and distributed services.

The Network Attributes control the way in which your system communicates with other systems. Some network attributes control the manner in which remote requests to process jobs and access information are handled. The values for these network attributes directly affect your system's security. Network Attributes can be changed using the Change Network Attributes (CHGNETA) command.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites
System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | |
|--------------------------------------|------------|----------|------------|--------------|--------------|-------------|------------|-------------------|------|
| Changes to Network Attributes Report | | | | | | | | | |
| AACL28NA | | | | | | | | | |
| QUERY NAME AAQYNA | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYNAGE QASYNAGE | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | |
| TIME 12:16:44 | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | |
| Changes to Network Attributes | | | | | | | | | |
| AACL28NA | | | | | | | | | |
| 07/12/99 | 12:16:44 | | | | | | | | PAGE |
| DATE | JOB NAME | JOB USER | JOB NUMBER | PROGRAM NAME | USER PROFILE | SYSTEM NAME | ENTRY TYPE | NETWORK ATTRIBUTE | |
| NEW NETWORK VALUE | | | | | | | | | |
| OLD NETWORK VALUE | | | | | | | | | |
| 1999-06-04 | QPADEV000Q | BTF | 23,887 | AACLEXT | BTF | ISIS | A | DDMACC | |
| *OBJAUT | | | | | | | | | |
| AACLDDM | | | | | | | | | |
| 1999-06-04 | QPADEV000Q | BTF | 23,887 | AACLEXT | BTF | ISIS | A | DDMACC | |
| AACLDDM | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | DDMACC | |
| *OBJAUT | | | | | | | | | |
| AACLDDM | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | PCSACC | |
| *OBJAUT | | | | | | | | | |
| *REGFAC | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | DDMACC | |
| AACLDDM | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | PCSACC | |
| *REGFAC | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | DDMACC | |
| *OBJAUT | | | | | | | | | |
| AACLDDM | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | PCSACC | |
| *OBJAUT | | | | | | | | | |
| *REGFAC | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | DDMACC | |
| AACLDDM | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | PCSACC | |
| *REGFAC | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-14 | QPADEV000P | JDB | 27,008 | ZPCL31 | JDB | ISIS | A | JOBACN | |
| *SEARCH | | | | | | | | | |
| *SEARCH | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | |

Option 3 Changes to *CRQD Objects

This report shows the Change Request Description (*CRQD) objects that have been changed.

Purpose
Use this report as needed to review changes to Change Request Description (*CRQD) objects.

Prerequisites
System value QAUDLVL must specify *SECURITY.

| Change Request Description (*CRQD) Object Changes Report | | | | | | | | | | |
|--|----------|---|----------|--------|---------|--------------|----------|--------|---------|----------|
| AACL28CQ | | | | | | | | | | |
| QUERY NAME AAQYCQ | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP QASYCQJE QASYCQJE | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | |
| TIME 15:24:39 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| 07/12/99 | 15:24:39 | Change Request Description (*CRQD) Object Changes | | | | | | | PAGE | 1 |
| AACL28CQ | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Object | Library | Obj Type |
| ----- | | | | | | | | | | |
| 07/04/99 | 3:40:30 | QPADEV0004 | EHD | 236755 | ASCL40 | EHD | PENTA401 | ASCL40 | EHD | *PGM |
| 07/04/99 | 3:40:30 | QPADEV0004 | EHD | 236755 | ASCL40 | EHD | PENTA401 | ASCL40 | EHD | *PGM |
| 07/04/99 | 3:40:30 | QPADEV0004 | EHD | 236755 | ASCL40 | EHD | PENTA401 | ASCL40 | EHD | *PGM |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

Option 4 APPN Directory Search Filter Violations

This report shows violations detected by the APPN Filter support.

Purpose
Use this report as needed to review violations detected when the Directory Search Filter is audited.

Prerequisites
System value QAUDLVL must specify *NETCMN.

| | | | | | | | | | |
|--|------------|---|-----------|---------------|-----------|--------------|----------|---------|---|
| APPN Directory Search Filter Violations Report | | | | | | | | | |
| AACL28ND | | | | | | | | | |
| QUERY NAME AAQYND | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYNDJE QASYNDJE | | | | | | | | | |
| DATE 01/02/12 | | | | | | | | | |
| TIME 14:35:45 | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | |
| 01/02/12 14:35:45 | | APPN Directory Search Filter Violations | | | | | | PAGE | 1 |
| AACL28ND | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| Ctrl | Ctrl Pnt | | Location | Partner | Partner | Inbound | Outbound | | |
| Point | NETID | Location | NETID | Location | Loc NETID | Session | Session | | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| No records in query report. | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | |
| More | | | | | | | | | |
| F3=Exit | F12=Cancel | F19=Left | F20=Right | F24=More keys | | | | | |

Option 5 APPN End Point Filter Violations

This report shows violations detected by the APPN Filter support.

Purpose

Use this report as needed to review violations detected when the End Point Filter is audited.

Prerequisites

System value QAUDLVL must specify *NETCMN.

| | | | | | | | | | | | | | | |
|-----------------------------------|-------|----------|----------|--------|----------------------------------|--------------|--------|---------|----------------|-----------------|--------------|-----------------|-----------|--|
| 02/11/98 19:18:46 | | | | | APPN End Point Filter Violations | | | | | | | | PAGE | |
| | | | | | AACL28NE | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ | Local Location | Remote Location | Remote NETID | Inbound Session | Outb Sess | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| No records in query report. | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | |

Option 6 System Distrbtn Directory Changes

This report identifies changes to system distribution directory.

Purpose

Use this report as needed to review changes made to the system distribution directory used by OfficeVison/400.

This report can be used to detect attempts to change how mail is routed.

Prerequisites

System value QAUDLVL must specify *OFCSRV.

| | | | | | | | | | | | | |
|---|----------|----------|------------|----------|--------|---------|--------------|---------|---------|----------|---------------|--------------------|
| Changes To System Distribution Directory Report | | | | | | | | | | | | |
| AACL28SD | | | | | | | | | | | | |
| QUERY NAME AAQYSD | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | |
| AAOUT QTEMP QASYSDJE QASYSDJE | | | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | | | |
| TIME 12:20:58 | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | |
| Changes To System Distribution Directory | | | | | | | | | | | | |
| AACL28SD | | | | | | | | | | | | |
| 07/12/99 | 12:20:58 | PAGE 1 | | | | | | | | | | |
| AACL28SD | | | | | | | | | | | | |
| Date | Time | System | Job Name | Job User | JobNbr | Program | User Profile | Ent Typ | Chg Typ | Rcd Type | Origin System | Profile Making Chg |
| ----- | | | | | | | | | | | | |
| Request Function | Changed | Changed | Changed | Changed | | | | | | | | |
| System Requestd | User ID | Address | Network | User Id | | | | | | | | |
| ----- | | | | | | | | | | | | |
| 1999-06-03 | 14:11:10 | ISIS | QPADEV0006 | PDA | 23383 | MSCL120 | PDA | S | ADD | DIRE | *LOCAL | PDA |
| ISIS | PDA | EXCHANGE | PDA | EXCHANGE | | | | | | | | |
| 1999-06-03 | 14:13:31 | ISIS | QPADEV0006 | PDA | 23383 | MSCL120 | PDA | S | ADD | DIRE | *LOCAL | PDA |
| ISIS | QSYSOPR | ISIS | QSYSOPR | ISIS | | | | | | | | |
| System distribution directory changes | | | | | | | | | | | | |
| COUNT 2 | | | | | | | | | | | | |
| * * * END OF REPORT * * * | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | |

The following Types of Changes may be included:

- ADD** Add directory entry
- CHG** Change directory entry
- COL** Collector entry
- DSP** Display directory entry
- OUT** Output file request
- PRT** Print directory entry
- RMV** Remove directory entry
- RNM** Rename directory entry
- RTV** Retrieve details
- SUP** Supplier entry

The following Record Types may be included:

| | |
|-------------|--------------------|
| DIRE | Directory |
| DPTD | Department details |
| SHdW | Directory Shadow |
| SRCH | Directory Search |

The following Function Requests may be included:

| | |
|---------------|------------------------|
| INIT | Initialization |
| OFFLIN | Offline initialization |
| REINIT | Re-initialization |
| SHADOW | Normal shadowing |
| STPSHD | Stop shadowing |

Option 7 Closing Server Files

This report identifies server files that were closed.

Purpose

Use this report as needed to review server files that were closed due to a disconnection.

Prerequisites

The Object Auditing (OBJAUD) parameter for the server files must specify *CHANGE. The OBJAUD parameter value can be changed using the Change Object Auditing (CHGOBJAUD) command.

| | | | | | | | | | | | | | | |
|-----------------------------------|------|----------------------|----------|--------|---------|--------------|--------|--------|-------------|----------------------|-----------------|--|------|---|
| 02/11/98 19:20:21 | | | | | | | | | | Closing Server Files | | | PAGE | |
| | | | | | | | | | | ACL28VF | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Server | Date Logged | Computer | Connection User | | I | P |
| Close | | Name of Resource | | | | | | | | | | | | |
| Reason | | Owning Accessed File | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | |
| No records in query report. | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | |
| (c) PentaSafe, 1997 | | | | | | | | | | | | | | |

The following Entry Types may be included:

- A** The file was closed because of administrative disconnection.
- N** The file was closed because of normal client disconnection.
- S** The file was closed because of session disconnection.

Option 8 Starting or Ending a Connection

This report identifies network server start and end connection events.

Purpose

Use this report as needed to review which computers are starting network server connections and how and why these connections are ended.

Prerequisites

System value QAUDLVL must specify *JOBDDTA and optionally, *AUTFAIL.

| | | | | | | | | | | | | | | |
|-----------------------------------|---------|----------|--------------|--------|---------------------------------------|--------------|--------|---------|--------|-------------|-------------|--------|------|--|
| 02/11/98 19:21:21 | | | | | Starting or Ending Server Connections | | | | | | | | PAGE | |
| | | | | | AAAL28VC | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Cnn Act | Server | Date Logged | Time Logged | Comput | | |
| ----- | | | | | | | | | | | | | | |
| Connection | Str/Stp | Reject | Connection | | | | | | | | | | | |
| User | Cnn ID | Reason | Network Name | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | |
| No records in query report. | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | |
| (c) PentaSafe, 1997 | | | | | | | | | | | | | | |

The following Entry Types may be included on the report when Auditing Level *JOBDDTA is used:

- S** A connection was started
- E** A connection was ended

The following Entry Types may be included on the report when Auditing Level *AUTFAIL is used:

- R** A connection was rejected because of an incorrect password

The following Rejection Reason Codes may appear:

- A** Automatic disconnect (time out), share removed, or administrative permissions lacking
- E** Error, session disconnect, or incorrect password
- N** Normal disconnection or user name limit
- P** No access permission to shared resource

Option 9 Logging On and Off the Network

This report identifies the computers that are logging on and off the network.

Purpose

Use this report as needed to review the computers that are logging on and off the network, and whether the log-on requests are rejected.

Prerequisites

System value QAUDLVL must specify *JOBDDTA and optionally, *AUTFAIL.

| | | | | | | | | | | | | |
|-----------------------------------|-----------|----------|----------|--------|--------------------------------|--------------|--------|---------|--------|-------------|-------------|--------|
| 02/11/98 13:16:25 | | | | | Logging On and Off The Network | | | | | PAGE | | |
| | | | | | AACL28VN | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Log Typ | Server | Date Logged | Time Logged | Comput |
| ----- | | | | | | | | | | | | |
| Logging | User | Reject | Addtnl | | | | | | | | | |
| User | Privilege | Reason | Reason | | | | | | | | | |
| ----- | | | | | | | | | | | | |
| No records in query report. | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |
| (c) PentaSafe, 1997 | | | | | | | | | | | | |

The following Entry Types may be included when Auditing Level *JOBDDTA is used:

- F** Logoff requested
- O** Logon requested

The following Entry Types may be included when Auditing Level *AUTFAIL is used:

- R** A network logon was rejected because of expired account, incorrect hours, incorrect user id, or incorrect password.

The following User Privileges may be included:

- A** Administrator
- G** Guest
- U** User

The following Rejection Reasons may be included:

- A** Access denied
- F** Forced off due to logon limit
- P** Incorrect password

The following Additional Reasons may be listed:

- A** Account expired
- D** Account disabled
- L** Logon hours not valid
- R** Requester ID not valid
- U** Unknown or unavailable

Option 10 Network Resource Access

This report lists all instances of accesses to network resources.

Purpose

Use this report to review the list of computers from which network resources are being accessed. An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

Object auditing value of *CHANGE must be in use for the resources.

| | | | | | | | | | | | | |
|---|---------------------|---------|---------|------|--------|------|------|----------|---------|----------|------|------|
| Network Resource Access Report | | | | | | | | | | | | |
| AACL28VR | | | | | | | | | | | | |
| QUERY NAME AAQYVR | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | |
| AAOUT QTEMP QASYVRJE QASYVRJE | | | | | | | | | | | | |
| DATE 07/13/99 | | | | | | | | | | | | |
| TIME 10:02:23 | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | |
| Network Resource Access | | | | | | | | | | | | |
| AACL28VR | | | | | | | | | | | | |
| 07/13/99 10:02:23 | | | | | | | | | | | | PAGE |
| Date Time Job Name Job User JobNbr Program User Profile System Server Date Logged Computer Resource Requestor | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | |
| Acc | Resource Being Used | | | | | | | | | | | |
| Sta | ----- | | | | | | | | | | | |
| --- | ----- | | | | | | | | | | | |
| S | 02/09/98 | 7:02:20 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | PENTASD | 98/02/09 | ASST | |
| *** END OF REPORT *** | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | |

The following Operation Types may be included on the report:

- A Resource attributes modified
- C Instance of the resource created
- D Resource deleted
- P Resource permissions modified
- R Data read or run from a resource
- W Data written to resource
- X Resource was run

The following Status Codes may be included on the report:

- F Resource access failed
- S Resource access succeeded

Option 11 Starting/Ending a Server Session

This report shows the computers from which server sessions are being started.

Purpose

Use this report to review the list of computers from which servers sessions are started and ended. The session user and privileges are identified on this report.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *JOBDTA.

| | | | | | | | | | | | | |
|-----------------------------|-----------|-----------|----------|------------------------------------|---------|--------------|--------|---------|--------|-------------|-------------|--|
| 02/11/98 19:22:56 | | | | Starting or Ending Server Sessions | | | | | | | PAGE 1 | |
| | | | | AACL28VS | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ssn Act | Server | Date Logged | Time Logged | |
| ----- | | | | | | | | | | | | |
| Session | | User | Ending | | | | | | | | | |
| Computer | Requester | Privilege | Reason | | | | | | | | | |
| ----- | | | | | | | | | | | | |
| No records in query report. | | | | | | | | | | | | |
| * * * END OF REPORT * * * | | | | | | | | | | | | |
| (c) PentaSafe, 1997 | | | | | | | | | | | | |

The following Session Actions may be included:

- S** A server session was started
- E** A server session was ended

The following User Privileges may be included:

- A** Administrator
- G** Guest
- U** User

The following Reason Codes may appear:

- A** Administrator disconnect
- D** Automatic disconnect (time out), share removed, or administrative permissions lacking

- E Error, session disconnect, or incorrect password
- N Normal disconnection or user name limit
- R Account restriction

Option 12 Changes to Network Profiles

This report identifies network profiles that are added, changed, or deleted.

Purpose

Use this report to monitor changes to network profile user or group records and the type of changes made.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | | |
|-------------------|---------|-----------------------------|----------|---------------|---------|--------------|--------|----------|--------|-------------|-------------|---------|
| 02/11/98 19:23:47 | | Changes To Network Profiles | | | | | | | | | | PAGE |
| | | AACL28VU | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Rcd Typ | Server | Date Logged | Time Logged | |
| | | Change Requester | Chg Typ | Resource Name | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | D | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 7:02:29 |
| *** | | C | GCG | | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | D | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 7:02:30 |
| *** | | C | GCG | | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | D | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 7:02:30 |
| *** | | C | GCG | | | | | | | | | |
| 02/10/98 | 8:20:23 | PENTANS | D | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 8:20:29 |
| *** | | C | REH | | | | | | | | | |
| 02/10/98 | 8:20:23 | PENTANS | D | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 8:20:30 |
| *** | | C | REH | | | | | | | | | |
| 02/10/98 | 8:20:23 | PENTANS | D | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 8:20:30 |

The following Record Types may be included:

- G Group record was changed
- U User record was changed
- M User profile global information was changed

The following Record Types may be included:

- A** Addition
- C** Change
- D** Deletion
- P** Incorrect password

Option 13 Access Control List (ACL) Changes

This report shows the name of the computer issuing the request to change the access control list for a resource.

Purpose

Use this report to review requests to change access control lists for network resources and the action performed on the access control profile.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | | |
|---------------------------------------|------|----------|----------|--------|---------------------------------|--------------|--------|---------|--------|-------------|----------|---------------|
| 02/11/98 19:24:34 | | | | | Changes To Access Control Lists | | | | | | | PAGE |
| | | | | | AAACL28VA | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Rqs Sts | Server | Date Logged | Computer | Change Reques |
| ----- | | | | | | | | | | | | |
| Resource Name | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | |
| No records in query report. | | | | | | | | | | | | |
| * * * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |
| (c) PentaSafe, 1997 | | | | | | | | | | | | |

The following Request Status codes may be included:

- S** The access control list was changed successfully
- F** The change of the access control list failed

Option 14 Account Limits Exceeded

This report shows account limit violations.

Purpose

Use this report to monitor violations against account limits. The report identifies the violation type (reason limit exceeded) and the names of the user and the computer with the violation.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SYSMGT.

| | | | | | | | | | | | |
|-----------------------------------|------|----------|----------|--------|------------------------|--------------|--------|---------------|--------|-------------|----------------|
| 02/11/98 19:14:29 | | | | | Account Limit Exceeded | | | | | PAGE | |
| | | | | | AACL28VL | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Exceed Reason | Server | Date Logged | Computer Limit |
| ----- | | | | | ----- | | | | | ----- | |
| Resource Name | | | | | | | | | | | |
| ----- | | | | | | | | | | | |
| No records in query report. | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | |
| (c) PentaSafe, 1997 | | | | | | | | | | | |

The following are possible Reason Codes for exceeding limits:

- A** The account is expired
- D** The account is disabled
- L** Log in hours were exceeded
- U** Unknown or unavailable
- W** Workstation not valid

Option 15 Descriptors Given

This report identifies jobs for which a resource descriptor, such as a user account, is given to another job.

Purpose

Use this report to monitor this activity.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| 02/11/98 19:25:23 | | Descriptors Given AACL28GS | | | | | | | | | | PAGE | |
|-------------------|---------|-------------------------------|----------|--------|-----------|-----------------|----------|------------|----------|----------|--------|-----------------|--|
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ | Job Name | Job User | JobNbr | User Profile | |
| 02/10/98 | 7:01:27 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239587 | QUSER | |
| 02/10/98 | 7:02:06 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239587 | QUSER | |
| 02/10/98 | 7:02:19 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239587 | QUSER | |
| 02/10/98 | 7:02:21 | QZSCSRVSD | QUSER | 235233 | QZSCSRVSD | QUSER | PENTA401 | G | QZSCSRVS | QUSER | 239884 | QUSER | |
| 02/10/98 | 7:15:13 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239587 | QUSER | |
| 02/10/98 | 7:15:15 | QZSCSRVSD | QUSER | 235233 | QZSCSRVSD | QUSER | PENTA401 | G | QZSCSRVS | QUSER | 239942 | QUSER | |
| 02/10/98 | 7:31:43 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239587 | QUSER | |
| 02/10/98 | 7:31:45 | QZSCSRVSD | QUSER | 235233 | QZSCSRVSD | QUSER | PENTA401 | G | QZSCSRVS | QUSER | 239943 | QUSER | |
| 02/10/98 | 7:56:14 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239950 | QUSER | |
| 02/10/98 | 7:56:18 | QZSCSRVSD | QUSER | 235233 | QZSCSRVSD | QUSER | PENTA401 | G | QZSCSRVS | QUSER | 239952 | QUSER | |
| 02/10/98 | 8:03:07 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239950 | QUSER | |
| 02/10/98 | 8:03:09 | QZSCSRVSD | QUSER | 235233 | QZSCSRVSD | QUSER | PENTA401 | G | QZSCSRVS | QUSER | 239951 | QUSER | |
| 02/10/98 | 8:06:35 | QZSOSGND | QUSER | 235241 | QZSOSGND | QUSER | PENTA401 | G | QZSOSIGN | QUSER | 239950 | QUSER | |
| 02/10/98 | 8:06:37 | QZSCSRVSD | QUSER | 235233 | QZSCSRVSD | QUSER | PENTA401 | G | QZSCSRVS | QUSER | 239963 | QUSER | |

Option 20 Remote Transaction Requests

| | | | |
|--------|----------------------------|------------|----------------|
| PA1541 | NetIQ Corporation | KRAMERM | Date: 9/22/08 |
| | Remote Transaction Reports | QPADEV0005 | Time: 10:56:54 |

Select one of the following:

| | |
|---------------------------------------|--------------------------------------|
| 1 FTP Logon and Server Requests | 14 Network Transactions by Date/Time |
| 2 TCP Signon Server Requests | 15 Network Transactions by User |
| 3 DDM Request Access | 16 Network Transactions by Function |
| 4 Transfer Function Server Requests | 17 Network Transactions by Server |
| 5 Rmt Cmd/Dstrbtd Pgm Call Svr Rqsts | 18 Network Trans by Incoming Address |
| 6 File Server Requests | |
| 7 Database Server Requests | |
| 8 Remote SQL Server Requests | |
| 9 Data Queue Original Server Request | |
| 10 Data Queue Optimized Server Rqsts | |
| 11 Original Virtual Print Svr Request | |
| 12 Network Print Server Entry Rqsts | |
| 13 Network Print Server Splf Requests | |

Enter Option or Function/Type ==> _____

| | | | | |
|-------------|--------------|---------------|----------------|---------------|
| F1=Help | F3=Exit | F5=Messages | F9=Window | F10=Cmd Line |
| F11=Filters | F12=Previous | F13=Attention | F14=Batch Jobs | F24=More Keys |

Option 1 FTP Logon and Server Requests

The FTP Logon and Server Requests report lists the number of attempts made to log on to a specified FTP server and the number of attempts to perform FTP client and server requests. This report is generated by typing Option 1 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the TCP/IP FTP client and server programs and to monitor logon access to the FTP server. To use this report, Audit Transactions must be turned on through RRM and the NetIQ Security Solutions for iSeries exit program NW0001E must be registered in the following exit points:

| Exit Point | Format |
|----------------------|----------|
| QIBM_QTMF_CLIENT_REQ | VLRQ0100 |
| QIBM_QTMF_SERVER_REQ | VLRQ0100 |
| QIBM_QTMF_SVR_LOGON | TCPL0100 |

The following figure shows an example of the FTP Logon and Server Requests Report.

The presence of a right angle bracket (>) on the right side of the report indicates that the entry is associated with an object.

| | | | | | | | | | | | | |
|-----------------------|-------------|-------------------------------|------------|-------------|------------------------|----------------------|----------------|---------------|-----------------|----------------|----------------|-------------|
| Rpt Id: NW000007 | | FTP Logon and Server Requests | | | | | | | Date: 01/06/29 | | Page: | |
| System: ANYSERVER | | | | | | | | | Time: 13:44:35 | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time . . : | | 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time . . . : | | 01/06/28 23:59:59 | | | | | | | | | | |
| Filter Name : | | *NONE | | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | | |
| RRM DMA Entry Job Id | | Incoming | | Incoming | | -----Operations----- | | | | Swap | | |
| <u>Date</u> | <u>Time</u> | <u>P/F</u> | <u>P/F</u> | <u>Type</u> | <u>Name/User/Nbr</u> | <u>User</u> | <u>Address</u> | <u>Server</u> | <u>Function</u> | <u>Command</u> | <u>Profile</u> | <u>Syst</u> |
| 01/06/28 | 16:22:17 | P | P | DM | QTFTP10512/QTCP/004960 | XYZ | 172.12.345.67 | FTPSRV | INIT | | | ANYS |
| 172.16.130.7 | | | | | | | | | | | | |
| 01/06/28 | 16:22:24 | P | P | DM | QTFTP10512/QTCP/004960 | | | FTPSRV | LOGON | | | ANYS |
| 01/06/28 | 16:22:30 | P | P | DM | QTFTP10512/QTCP/004960 | XYZ | 172.12.345.67 | FTPSRV | LIST | | | ANYS |
| /QSYS.LIB/QGPL.LIB | | | | | | | | | | | | |
| 01/06/28 | 16:30:21 | P | P | DM | QTFTP01067/QTCP/004961 | XYZ | 172.12.345.67 | FTPSRV | INIT | | | ANYS |
| 172.16.130.7 | | | | | | | | | | | | |
| 01/06/28 | 16:30:26 | P | P | DM | QTFTP01067/QTCP/004961 | | | FTPSRV | LOGON | | | ANYS |
| 01/06/28 | 16:30:28 | P | P | DM | QTFTP01067/QTCP/004961 | XYZ | 172.12.345.67 | FTPSRV | CD | | | ANYS |
| /QSYS.LIB/PDA.LIB | | | | | | | | | | | | |

This report may include the following entry types:

| Code | System Type Used | Function |
|-------------|-------------------------|---|
| DA | Original Client Access | Data Queue Server |
| DB | Optimized Client Access | Signon Server |
| DC | Optimized Client Access | Central Server |
| DD | Optimized Client Access | Database Server Initialization |
| DE | Optimized Client Access | Native Database Requests |
| DF | Optimized Client Access | Retrieve Object Information |
| DG | Optimized Client Access | SQL Requests |
| DI | Optimized Client Access | File Server |
| DJ | Optimized Client Access | Remote Command and Distributed Program Call |
| DK | Other | Distributed Data Management (DDM) |
| DL | Other | Distributed Relational Database Architecture (DRDA) |
| DM | TCP/IP | FTP Server Logon FTP Server Anonymous Logon FTP Server Request Validation |
| DN | TCP/IP | FTP Client Request Validation |
| DO | TCP/IP | REXEC Server Request Validation |
| DP | TCP/IP | REXEC Server Logon |
| DQ | TCP/IP | Telnet Device Initialization Telnet Device Termination |
| DR | Original Client Access | Remote SQL Request |
| DT | Original Client Access | File Transfer Function Message Function Server |

| Code | System Type Used | Function |
|------|-------------------------|----------------------|
| DU | Original Client Access | Virtual Print Server |
| DV | Original Client Access | License Management |
| DW | Other | ShowCase Suite |
| DX | Optimized Client Access | Data Queue Server |
| DY | Optimized Client Access | Network Print Server |

Option 2 TCP Signon Server Requests

The TCP Signon Server Requests report lists sign-on server transactions that were submitted through the TCP/IP server. These transactions are logged by exit point QIBM_QZSO_SIGNONSRV.

This report is generated by typing Option 2 and pressing ENTER on the Remote Transaction Reports menu. Use this report to manage access to the TCP Signon Server through the sign-on server function. The following figure shows an example of the TCP Signon Server Requests Report.

| | | | | | | | | | | | | |
|-----------------------------------|-------------|----------------------------|------------|-------------|-----------------------|----------------------|----------------|---------------|-----------------|----------------|----------------|---------------|
| Rpt Id: NW000013 | | TCP Signon Server requests | | | | Date: 01/06/29 | | Page: 1 | | | | |
| System: ANYSERVER | | | | | | Time: 13:45:16 | | | | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time | | . . : 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time | | . . : 01/06/28 23:59:59 | | | | | | | | | | |
| Filter Name | | . . . : *NONE | | | | | | | | | | |
| Filter Criteria | | . . : | | | | | | | | | | |
| RRM DMA Entry Job Id | | Incoming | | Incoming | | -----Operations----- | | Swap | | | | |
| <u>Date</u> | <u>Time</u> | <u>P/F</u> | <u>P/F</u> | <u>Type</u> | <u>Name/User/Nbr</u> | <u>User</u> | <u>Address</u> | <u>Server</u> | <u>Function</u> | <u>Command</u> | <u>Profile</u> | <u>System</u> |
| 01/06/28 | 17:38:31 | P | P | DB | QZSOSIGN/QUSER/004931 | XYZ | 172.12.345.678 | SIGNON | INFO | | | ANYSVR |
| 01/06/28 | 17:54:33 | P | P | DB | QZSOSIGN/QUSER/004931 | ADMIN | 172.12.345.678 | SIGNON | INFO | | | ANYSVR |
| 01/06/28 | 19:16:11 | P | P | DB | QZSOSIGN/QUSER/004931 | ADMIN | 172.12.345.678 | SIGNON | INFO | | | ANYSVR |
| 01/06/28 | 19:25:28 | P | P | DB | QZSOSIGN/QUSER/004931 | XYZ | 172.12.345.678 | SIGNON | INFO | | | ANYSVR |
| 01/06/28 | 20:22:50 | P | P | DB | QZSOSIGN/QUSER/004931 | ADMIN | 172.12.345.678 | SIGNON | INFO | | | ANYSVR |
| Total Transactions = | | 5 | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |

Option 3 DDM Request Access

The DDM Request Access report lists the Distributed Data Management (DDM) transactions that have occurred on the RRM server. The transactions in this report are logged by exit point DDMACC. This report is generated by typing Option 3 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to DDM on the RRM server. The following figure shows an example of the DDM Request Access report.

| | | | | | | | | |
|----------------------|-------------|--|-------------|----------------|----------------------|-----------------|----------------|---------------------------|
| Rpt Id: NW000003 | | DDM Request Access | | | | Date: 01/06/29 | | Page: |
| System: ANYSERVER | | | | | | Time: 13:46:08 | | |
| Selection Criteria: | | | | | | | | |
| From Date/Time | | . : 93/01/01 00:00:00 | | | | | | |
| To Date/Time | | . : 01/06/28 23:59:59 | | | | | | |
| Filter Name | | . : *NONE | | | | | | |
| Filter Criteria | | . : | | | | | | |
| | | RRM DMA Entry Job Id | Incoming | Incoming | -----Operations----- | | | Swap |
| <u>Date</u> | <u>Time</u> | <u>P/F</u> <u>P/F</u> <u>Type</u> <u>Name/User/Nbr</u> | <u>User</u> | <u>Address</u> | <u>Server</u> | <u>Function</u> | <u>Command</u> | <u>Profile</u> <u>Sys</u> |
| Total Transactions = | | * * * E N D O F R E P O R T * * * | | | | | | |

Option 4 Transfer Function Server Requests

The Transfer Function Server Requests report lists file transfers between the RRM server and other systems. The transactions in this report are logged by exit point QIBM_QTF_TRANSFER. This report is generated by typing Option 4 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage file transfers between the RRM server and other systems. The following figure shows an example of the Transfer Function Server Requests report.

| | | | | | | | | | | | | |
|-----------------------------------|------|-----------------------------------|-----|-------|---------------|----------------|----------|----------------------|----------|---------|---------|--------|
| Rpt Id: NW000014 | | Transfer Function Server Requests | | | | Date: 01/06/29 | | Page: 1 | | | | |
| System: ANYSERVER | | | | | | Time: 13:56:55 | | | | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time . . : | | 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time . . . : | | 01/06/28 23:59:59 | | | | | | | | | | |
| Filter Name : | | *NONE | | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | | |
| Date | Time | RRM | DMA | Entry | Job Id | Incoming | Incoming | -----Operations----- | Swap | | | |
| | | P/F | P/F | Type | Name/User/Nbr | User | Address | Server | Function | Command | Profile | System |
| Total Transactions = | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |

Option 5 Rmt Cmd/Dstrbtd Pgm Call Svr Requests

The Remote Command/Distributed Program Call Server Requests report lists the number of remote command/distributed program call server requests that occurred on the RRM server. The transactions in this report are logged by exit point QIBM_QZRC_RMT. This report is generated by typing Option 5 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage the access of remote commands and distributed program calls to the RRM server. The following figure shows an example of the Transaction Summary Report.

| | | | | | | | | | | | | |
|-----------------------------------|------|---|-----|-------|---------------|----------|----------------|----------------------|----------|---------|---------|--------|
| Rpt Id: NW000011 | | Remote Command/Distributed Program Call Server Requests | | | | | Date: 01/06/29 | | Page: 1 | | | |
| System: ANYSERVER | | | | | | | Time: 18:37:48 | | | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time | | . . : 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time | | . . : 01/06/28 23:59:59 | | | | | | | | | | |
| Filter Name | | . . . : *NONE | | | | | | | | | | |
| Filter Criteria | | . . : | | | | | | | | | | |
| Date | Time | RRM | DMA | Entry | Job Id | Incoming | Incoming | -----Operations----- | | Swap | | |
| | | P/F | P/F | Type | Name/User/Nbr | User | Address | Server | Function | Command | Profile | System |
| Total Transactions = | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |

Option 6 File Server Requests

The File Server Requests report lists the file server requests that have accessed the optimized file server. The transactions in this report are logged by exit point QIBM_QPNFS_FILE_SERV. This report is generated by typing Option 6 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the optimized file server. The following figure shows an example of the File Server Requests report.

| | | | | | | | | | | | | |
|--------------------------|-------------|----------------------|------------|-------------|--------------------------|-------------|----------------|----------------------|-----------------|----------------|----------------|---------------|
| Rpt Id: NW000006 | | File Server Requests | | | | | | Date: 01/07/05 | | Page: 1 | | |
| System: ANYSERVER | | | | | | | | Time: 09:39:02 | | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time . . : | | 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time . . . : | | 01/06/30 23:59:59 | | | | | | | | | | |
| Filter Name : | | *NONE | | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | | |
| | | RRM | DMA | Entry | Job Id | Incoming | Incoming | -----Operations----- | | | Swap | |
| <u>Date</u> | <u>Time</u> | <u>P/F</u> | <u>P/F</u> | <u>Type</u> | <u>Name/User/Nbr</u> | <u>User</u> | <u>Address</u> | <u>Server</u> | <u>Function</u> | <u>Command</u> | <u>Profile</u> | <u>System</u> |
| 01/06/28 | 16:05:17 | P | | DI | QPWFSESRVSO/QUSER/004948 | XYZ | 172.12.345.67 | FILE | LISTATT | | | ANYSRVR |
| /QCA400/Win32 | | | | | | | | | | | | |
| 01/06/28 | 16:07:59 | P | | DI | QPWFSESRVSO/QUSER/004948 | XYZ | 172.12.345.67 | FILE | LISTATT | | | ANYSRVR |
| /QCA400/Win32/Install | | | | | | | | | | | | |
| 01/06/29 | 12:43:48 | F | | DI | QPWFSESRVSO/QUSER/005125 | XYZ | 172.12.345.67 | FILE | ALLOCON | | | ANYSRVR |
| 01/06/29 | 12:43:57 | F | | DI | QPWFSESRVSO/QUSER/005125 | XYZ | 172.12.345.67 | FILE | LISTATT | | | ANYSRVR |
| /QIBM/ProdData/GUIPlugin | | | | | | | | | | | | |
| 01/06/29 | 12:44:08 | F | | DI | QPWFSESRVSO/QUSER/005125 | XYZ | 172.12.345.67 | FILE | LISTATT | | | ANYSRVR |
| /QIBM/UserData/GUIPlugin | | | | | | | | | | | | |
| 01/06/29 | 13:58:24 | F | | DI | QPWFSESRVSO/QUSER/005125 | XYZ | 172.12.345.67 | FILE | ALLOCON | | | ANYSRVR |

Option 7 Database Server Requests

The Database Server Requests report lists transactions that have occurred on the RRM server for supported database functions such as the following:

- Database query GUI
- ODBC driver
- New file transfer
- Remote SQL
- ODBC APIs

This report is generated by typing Option 7 and pressing ENTER on the Remote Transaction Reports menu. The following figure shows an example of the Database Server Requests Report.

| | | | | | | | | | | | | |
|---------------------|----------|--------------------------|-----|-------|-------------------------|----------|---------------|----------------------|----------|---------|---------|---------|
| Rpt Id: NW000002 | | Database Server Requests | | | | | | Date: 01/07/05 | | Page: 1 | | |
| System: ANYSERVER | | | | | | | | Time: 09:40:33 | | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time | | . . : 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time | | . . : 01/06/30 23:59:59 | | | | | | | | | | |
| Filter Name | | . . . : *NONE | | | | | | | | | | |
| Filter Criteria | | . . | | | | | | | | | | |
| Date | Time | RRM | DMA | Entry | Job Id | Incoming | Incoming | -----Operations----- | | Swap | | |
| | | P/F | P/F | Type | Name/User/Nbr | User | Address | Server | Function | Command | Profile | System |
| 01/06/28 | 17:54:50 | P | P | DD | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBINIT | INIT | | | ANYSRVR |
| 01/06/28 | 17:54:52 | P | P | DE | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBNDB | CHGLIBL | | | ANYSRVR |
| /QSYS.LIB/QGPL.LIB | | | | | | | | | | | | |
| 01/06/28 | 17:54:55 | P | P | DG | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBSQL | CRTPKG | | | ANYSRVR |
| 01/06/28 | 17:54:58 | P | P | DG | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBSQL | PRPDESC | | | ANYSRVR |
| 01/06/28 | 17:55:01 | P | P | DG | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBSQL | PRPDESC | | | ANYSRVR |
| 01/06/28 | 17:55:02 | P | P | DG | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBSQL | OPNDESC | | | ANYSRVR |
| 01/06/28 | 17:55:03 | P | P | DG | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBSQL | PRPDESC | | | ANYSRVR |
| 01/06/28 | 17:55:04 | P | P | DG | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBSQL | OPNDESC | | | ANYSRVR |
| 01/06/28 | 17:55:56 | P | P | DG | QZDASOINIT/QUSER/004994 | XYZ | 172.12.345.67 | DBSQL | PRPDESC | | | ANYSRVR |

Use this report to manage access to supported database functions on the RRM server. To use this report, logging must be turned on through RRM and the following exit points must be registered in i5/OS:

| Exit Point | Description |
|----------------|------------------------------------|
| QIBM_QZDA_INTT | Performs server initiation. |
| QIBM_QZDA_NDB1 | Performs native database requests. |

| Exit Point | Description |
|----------------|--|
| QIBM_QZDA_SQL1 | Performs SQL requests. |
| QIBM_QZDA_ROI1 | <p>Retrieves the following object information requests and SQL catalog functions:</p> <ul style="list-style-type: none"> • Create source physical file • Create database file, based on existing file • Add, clear, delete database file member • Override database file • Delete database file override • Delete file • Prepare • Open • Execute • Connect • Create package • Clear Package • Execute immediate • Prepare and describe • Prepare and execute or prepare and open • Open and fetch • Execute or open • Library (or collection) • File (or table) • Field (or column) • Index • Relational database (or RDB) • SQL package • SQL package statement • File member • Record format • Special columns • Foreign keys • Primary keys |

If the SQL-specific data is blank, transactions for the Open/Describe function (X'1804') and the Execute function (X'1805') are not written to the security journal.

This server supports the following clients:

- Support for remote SQL access.
- Access to data through ODBC interfaces.

- Native database functions (such as creating and deleting files and adding and removing file members).
- Retrieval functions to obtain information about database files that exist on the system (such as SQL catalog functions).

The following products use the database server with APPC support:

- Client Access for Windows 95
 - Access to iSeries database through ODBC interface
- Client Access for Optimized OS/2
 - Access to iSeries database through ODBC interface
 - Access to iSeries database through remote SQL interface
 - File transfer APIs
- Client Access for Windows 3.1
 - Access to iSeries database through ODBC interface

Option 8 Remote SQL Server Requests

The Remote SQL Server Requests report lists attempts to access the original remote SQL server, which enables PC-iSeries database access by remote SQL APIs. The transactions in this report are logged by exit point QIBM_QRQ_SQL. This report is generated by typing Option 8 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the original remote SQL server. The following figure shows an example of the Remote SQL Server Requests report.

| | | | | | | | | | | | |
|-----------------------|-------------|----------------------------|----------------------|--------------|----------------|-----------------|-----------------|-----------------------------|----------------|---------------|--|
| Rpt Id: NW000012 | | Remote SQL Server requests | | | | | Date: 01/07/05 | | Page: 1 | | |
| System: ANYSERVER | | | | | | | Time: 09:41:53 | | | | |
| Selection Criteria: | | | | | | | | | | | |
| From Date/Time | | . : 93/01/01 00:00:00 | | | | | | | | | |
| To Date/Time | | . : 01/07/05 23:59:59 | | | | | | | | | |
| Filter Name | | . : *NONE | | | | | | | | | |
| Filter Criteria | | . : | | | | | | | | | |
| <u>Date</u> | <u>Time</u> | <u>RRM</u> | <u>DMA</u> | <u>Entry</u> | <u>Job Id</u> | <u>Incoming</u> | <u>Incoming</u> | <u>-----Operations-----</u> | <u>Swap</u> | | |
| <u>P/F</u> | <u>P/F</u> | <u>Type</u> | <u>Name/User/Nbr</u> | <u>User</u> | <u>Address</u> | <u>Server</u> | <u>Function</u> | <u>Command</u> | <u>Profile</u> | <u>System</u> | |
| Total Transactions = | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | |

Option 9 Data Queue Original Server Reqstr

The Data Queue Original Server Requests report lists attempts to access the data queue original server. The transactions in this report are logged by exit point QIBM_QHQ_DTAQ. This report is generated by typing Option 9 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the data queue original server. The following figure shows an example of the Data Queue Original Server Requests report.

| | | | | | | | | | | | | |
|-----------------------------------|-------------|-------------------------------------|------------|--------------|----------------------|-----------------|-----------------|-----------------------------|-----------------|----------------|----------------|---------------|
| Rpt Id: NW000005 | | Data Queue Original Server Requests | | | | | | Date: 01/07/05 | | Page: 1 | | |
| System: ANYSERVER | | | | | | | | Time: 09:42:32 | | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time | | . . : 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time | | . . : 01/07/05 23:59:59 | | | | | | | | | | |
| Filter Name | | . . . : *NONE | | | | | | | | | | |
| Filter Criteria | | . . . : | | | | | | | | | | |
| <u>Date</u> | <u>Time</u> | <u>RRM</u> | <u>DMA</u> | <u>Entry</u> | <u>Job Id</u> | <u>Incoming</u> | <u>Incoming</u> | <u>-----Operations-----</u> | <u>Swap</u> | | | |
| <u>Date</u> | <u>Time</u> | <u>P/F</u> | <u>P/F</u> | <u>Type</u> | <u>Name/User/Nbr</u> | <u>User</u> | <u>Address</u> | <u>Server</u> | <u>Function</u> | <u>Command</u> | <u>Profile</u> | <u>System</u> |
| Total Transactions = | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |

Option 10 Data Queue Optimized Server Requests

The Data Queue Optimized Server Requests report lists attempts to access the data queue optimized server. The transactions in this report are logged by exit point QIBM_Q2HQ_DATA_QUEUE. This report is generated by typing Option 10 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the data queue optimized server. The following figure shows an example of the Data Queue Optimized Server Requests report.

| | | | | | | | | | | | |
|--|--|--|--|--------------------------------------|--|----------------|--|---|--|---------------|--|
| Rpt Id: NW000004 | | | | Data Queue Optimized Server Requests | | | | Date: 01/07/05 Page: 1 | | | |
| System: ANYSERVER | | | | | | | | Time: 09:43:06 | | | |
| Selection Criteria: | | | | | | | | | | | |
| From Date/Time . . : | | | | 93/01/01 00:00:00 | | | | | | | |
| To Date/Time . . . : | | | | 01/07/05 23:59:59 | | | | | | | |
| Filter Name : | | | | *NONE | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | |
| RRM DMA Entry Job Id | | | | Incoming | | Incoming | | -----Operations----- Swap | | | |
| <u>Date</u> <u>Time</u> <u>P/F</u> <u>P/F</u> <u>Type</u> <u>Name/User/Nbr</u> | | | | <u>User</u> | | <u>Address</u> | | <u>Server</u> <u>Function</u> <u>Command</u> <u>Profile</u> | | <u>System</u> | |
| Total Transactions = | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | |

Option 11 Original Virtual Print Server Requests

The Original Virtual Print Server Requests report lists attempts to access the original virtual print server. The transactions in this report are logged by exit point QIBM_QVP_PRINTERS. This report is generated by typing Option 11 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the original virtual print server. The following figure shows an example of the Original Virtual Print Server Requests report.

| | | | | | | | | | | | | | | | |
|--|----------|-----|-----|-------|-----------------------|---------------------------------------|---------------|----------------------|----------|---------|---------|----------------|---------|---------|--|
| Rpt Id: NW000008 | | | | | | Original Virtual Print Server Request | | | | | | Date: 01/07/05 | | Page: 1 | |
| System: ANYSERVER | | | | | | | | | | | | Time: 09:44:13 | | | |
| Selection Criteria: | | | | | | | | | | | | | | | |
| From Date/Time . . : 93/01/01 00:00:00 | | | | | | | | | | | | | | | |
| To Date/Time . . . : 01/07/05 23:59:59 | | | | | | | | | | | | | | | |
| Filter Name . . . : *NONE | | | | | | | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | |
| Date | Time | RRM | DMA | Entry | Job Id | Incoming | Incoming | -----Operations----- | | | Swap | | | | |
| | | P/F | P/F | Type | Name/User/Nbr | User | Address | Server | Function | Command | Profile | | System | | |
| 01/06/29 | 10:34:34 | P | P | DU | QIWVPPJT/QUSER/005077 | XYZ | 172.12.345.67 | VRTPRT | EXTRACT | | | | ANYSRVR | | |
| 01/06/29 | 10:34:44 | P | P | DU | QIWVPPJT/QUSER/005076 | XYZ | 172.12.345.67 | VRTPRT | EXTRACT | | | | ANYSRVR | | |
| 01/06/29 | 10:35:27 | P | P | DU | QIWVPPJT/QUSER/005080 | XYZ | 172.12.345.67 | VRTPRT | CHECK | | | | ANYSRVR | | |
| /QSYS.LIB/QUSRSYS.LIB/BYPHIL.OUTQ | | | | | | | | | | | | | | | |
| 01/06/29 | 10:35:33 | P | P | DU | QIWVPPJT/QUSER/005079 | XYZ | 172.12.345.67 | VRTPRT | CHECK | | | | ANYSRVR | | |
| /QSYS.LIB/QUSRSYS.LIB/BYPHIL.OUTQ | | | | | | | | | | | | | | | |
| Total Transactions = 4 | | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | | |

Option 12 Network Print Server Entry Reqsts

The Network Print Server Entry Requests report lists attempts to access the network print server. The transactions in this report are logged by exit point QIBM_QNPS_ENTRY. This report is generated by typing Option 12 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the network print server. The following figure shows an example of the Network Print Server Entry Requests report.

| | | | | | | | | | | | |
|---------------------|----------|-------------------------------------|-----|-------|-----------------------|----------|---------------|----------------------|----------|---------|---------|
| Rpt Id: NW000009 | | Network Print Server Entry Requests | | | | | | Date: 01/07/05 | | Page: 1 | |
| System: ANYSERVER | | | | | | | | Time: 09:45:37 | | | |
| Selection Criteria: | | | | | | | | | | | |
| From Date/Time | | . . : 93/01/01 00:00:00 | | | | | | | | | |
| To Date/Time | | . . : 01/07/05 23:59:59 | | | | | | | | | |
| Filter Name | | . . . : *NONE | | | | | | | | | |
| Filter Criteria | | . . : | | | | | | | | | |
| Date | Time | RRM | DMA | Entry | Job Id | Incoming | Incoming | -----Operations----- | | | Swap |
| | | P/F | P/F | Type | Name/User/Nbr | User | Address | Server | Function | Command | Profile |
| 01/06/29 | 10:47:42 | P | P | DH | QNPSESVS/QUSER/004966 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/06/29 | 10:47:45 | P | P | DH | QNPSESVS/QUSER/005084 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/06/29 | 11:17:53 | P | P | DH | QNPSESVS/QUSER/004966 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/06/29 | 11:17:58 | P | P | DH | QNPSESVS/QUSER/005110 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/07/02 | 11:01:25 | P | P | DH | QNPSESVS/QUSER/004966 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/07/02 | 11:01:29 | P | P | DH | QNPSESVS/QUSER/005421 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/07/02 | 13:14:52 | P | P | DH | QNPSESVS/QUSER/004966 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/07/02 | 13:15:06 | P | P | DH | QNPSESVS/QUSER/005442 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/07/02 | 13:33:22 | P | P | DH | QNPSESVS/QUSER/004966 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |
| 01/07/02 | 13:33:25 | P | P | DH | QNPSESVS/QUSER/005450 | XYZ | 172.16.153.84 | NETPRT | ENTRY | *ALL | ANYSRVR |

Option 13 Network Print Server Splf Requests

The Network Print Server Spool File Requests report lists attempts to access the network print server spool file. The transactions in this report are logged by exit point QIBM_QNPS_SPLF. This report is generated by typing Option 13 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the network print server spool file print server. The following figure shows an example of the Network Print Server Spool File Requests report.

| | | | | | | | | | | | | |
|-----------------------------------|-------------|--|------------|-------------|----------------------|-------------|----------------|----------------------|-----------------|----------------|----------------|---------------|
| Rpt Id: NW000010 | | Network Print Server Spool file Requests | | | | | Date: 01/07/05 | | Page: 1 | | | |
| System: ANYSERVER | | | | | | | Time: 09:46:29 | | | | | |
| Selection Criteria: | | | | | | | | | | | | |
| From Date/Time | | . . : 93/01/01 00:00:00 | | | | | | | | | | |
| To Date/Time | | . . : 01/07/05 23:59:59 | | | | | | | | | | |
| Filter Name | | . . . : *NONE | | | | | | | | | | |
| Filter Criteria | | . . : | | | | | | | | | | |
| | | RRM | DMA | Entry | Job Id | Incoming | Incoming | -----Operations----- | | Swap | | |
| <u>Date</u> | <u>Time</u> | <u>P/F</u> | <u>P/F</u> | <u>Type</u> | <u>Name/User/Nbr</u> | <u>User</u> | <u>Address</u> | <u>Server</u> | <u>Function</u> | <u>Command</u> | <u>Profile</u> | <u>System</u> |
| Total Transactions = | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |

Option 14 Network Transactions by Date/Time

The Network Transactions by Date/Time report lists the transactions that have occurred on the RRM server sorted by date and time. This report is generated by typing Option 14 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the RRM server based on transactions sorted by date and time. The following figure shows an example of the Network Transactions by Date/Time Report.

| | | | | | | | | | | | |
|-----------------------|----------|-----------------------------------|------------|---------------|-------------------------|------------------|---------------------|----------------------|---------|-----------------|---------|
| Rpt Id: NW000016 | | Network Transactions by Date/Time | | | | | | Date: 01/07/05 | | Page: 1 | |
| System: ANYSERVER | | | | | | | | Time: 09:47:49 | | | |
| Selection Criteria: | | | | | | | | | | | |
| From Date/Time . . : | | 93/01/01 00:00:00 | | | | | | | | | |
| To Date/Time . . . : | | 01/06/30 23:59:59 | | | | | | | | | |
| Filter Name : | | *NONE | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | |
| Date | Time | RRM P/F | DMA P/F | Entry Type | Job Id Name/User/Nbr | Incoming User | Incoming Address | -----Operations----- | | Swap Profile | System |
| 01/06/28 | 16:05:17 | P | P | DI | QPWFSESVSO/QUSER/004948 | XYZ | 172.12.345.67 | FILE | LISTATT | | ANYSRVR |
| /QCA400/Win32 | | | | | | | | | | | |
| 01/06/28 | 16:07:59 | P | P | DI | QPWFSESVSO/QUSER/004948 | XYZ | 172.12.345.67 | FILE | LISTATT | | ANYSRVR |
| /QCA400/Win32/Install | | | | | | | | | | | |
| 01/06/28 | 16:22:17 | P | P | DM | QTFTP10512/QTCP/004960 | QTCP | 172.12.345.67 | FTPSRV | INIT | | ANYSRVR |
| 172.12.345.6 | | | | | | | | | | | |
| 01/06/28 | 16:22:24 | P | P | DM | QTFTP10512/QTCP/004960 | | | FTPSRV | LOGON | | ANYSRVR |
| 01/06/28 | 16:22:30 | P | P | DM | QTFTP10512/QTCP/004960 | XYZ | 172.12.345.67 | FTPSRV | LIST | | ANYSRVR |
| /QSYS.LIB/QGPL.LIB | | | | | | | | | | | |
| 01/06/28 | 16:30:21 | P | P | DM | QTFTP01067/QTCP/004961 | QTCP | 172.12.345.67 | FTPSRV | INIT | | ANYSRVR |

Option 15 Network Transactions by User

The Network Transactions by User report lists the transactions that have occurred on the RRM server sorted by user. This report is generated by typing Option 15 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the RRM server based on transactions sorted by users. The following figure shows an example of the Network Transactions by User report.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|---------------------------------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|
| Rpt Id: NW000019 | | | | | | | | | | Network Transactions by User | | | | | | | | | | Date: 18/09/08 | | | | | | | | | |
| System: ISR02 | | | | | | | | | | | | | | | | | | | | Time: 12:58:10 | | | | | | | | | |
| Selection Criteria: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| User Name : | | | | | | | | | | *ALL | | | | | | | | | | | | | | | | | | | |
| Transactions . . . : | | | | | | | | | | *ALL | | | | | | | | | | | | | | | | | | | |
| From Date/Time . . : | | | | | | | | | | 01/08/08 0:00:00 | | | | | | | | | | | | | | | | | | | |
| To Date/Time . . . : | | | | | | | | | | 18/09/08 23:59:59 | | | | | | | | | | | | | | | | | | | |
| Filter Name : | | | | | | | | | | *NONE | | | | | | | | | | | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Date_____ Time_____ | | | | | | | | | | RRM DMA Entry Job Id | | | | | | | | | | Incoming Incoming | | | | | | | | | |
| P/F P/F Type_ Name/User/Nbr_____ | | | | | | | | | | User_____ | | | | | | | | | | Address_____ | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | ----- Operations ----- Swap | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | Server Function Command Profile____ Sys | | | | | | | | | |
| 10/09/08 16:11:13 | | | | | | | | | | P P DN QPADEV000D/SMITHE/059801 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| 10/09/08 16:11:13 | | | | | | | | | | P P DN QPADEV000D/SMITHE/059801 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| /QSYS.LIB/EDSRC.LIB/EDSRC.FILE/RMV_IPV6.MBR | | | | | | | | | | | | | | | | | | | | FTPCLT INIT | | | | | | | | | |
| 11/09/08 07:14:39 | | | | | | | | | | P P DM QTFTP00023/QTCP/059818 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| 11/09/08 07:14:39 | | | | | | | | | | P P DM QTFTP00023/QTCP/059818 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| CRTLIB EDDTA TEXT('Eli Duran - non-essential data & save files') | | | | | | | | | | | | | | | | | | | | FTPCLT SEND | | | | | | | | | |
| 11/09/08 07:14:40 | | | | | | | | | | P P DM QTFTP00023/QTCP/059818 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| CRTPF EDDTA/SPL132 RCDLEN(132) TEXT('132-byte rcd length to rcv splf') | | | | | | | | | | | | | | | | | | | | FTPCLT SEND | | | | | | | | | |
| 11/09/08 07:14:40 | | | | | | | | | | P P DM QTFTP00023/QTCP/059818 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| SEMJOB CMD(DSPSYSSTS *print) OUTQ(QPRINT2) JOBQ(QSYSNOMAX) JOB(DSPSYSSTS4) | | | | | | | | | | | | | | | | | | | | FTPCLT SEND | | | | | | | | | |
| 11/09/08 07:14:40 | | | | | | | | | | P P DM QTFTP00023/QTCP/059818 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| DLYJOB 20 | | | | | | | | | | | | | | | | | | | | FTPCLT SEND | | | | | | | | | |
| 11/09/08 07:15:00 | | | | | | | | | | P P DM QTFTP00023/QTCP/059818 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| CPYSPLF QPDSPSTS EDDTA/SPL132 JOB(DSPSYSSTS4) SPLNBR(*LAST) | | | | | | | | | | | | | | | | | | | | FTPCLT SEND | | | | | | | | | |
| 11/09/08 07:15:00 | | | | | | | | | | P P DM QTFTP00023/QTCP/059818 | | | | | | | | | | SMITHE 10.21.72.10 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | FTPCLT SEND | | | | | | | | | |
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Rpt Id: NW000017                               Network Transactions by Function                               Date: 18/09/08
System: ISR02                                     Time: 13:07:09
Selection Criteria:
  User Name . . . . : *ALL
  Transactions . . . : *ALL
  From Date/Time . . : 01/08/08  0:00:00
  To Date/Time . . . : 18/09/08 23:59:59
  Filter Name . . . . : *NONE
  Filter Criteria . . :

RRM DMA Entry Job Id      Incoming      Incoming      ----- Operations ----- Swap
Date      Time      P/F P/F Type__ Name/User/Nbr      User      Address      Server Function Command Profile ____ Syst
15/09/08 13:31:13  P  P  DI  QWFSRVSU0/QUSER/060186  QSECONF  127.0.0.1  FILE  ALLOCN  ISRO
17/09/08 09:36:53  P  P  DI  QWFSRVSU0/QUSER/061219  QSECONF  127.0.0.1  FILE  ALLOCN  ISRO
10/09/08 07:14:42  P  P  DM  QTFFP00023/QTCP/059735  DURANE   10.21.72.10  FTSPRV  COMMAND  ISRO
CTRLIB EDDTA TEXT('Eli Duran - non-essential data & save files')
10/09/08 07:14:42  P  P  DM  QTFFP00023/QTCP/059735  DURANE   10.21.72.10  FTSPRV  COMMAND  ISRO
CRTFF EDDTA/SP132 RCDLEN(132) TEXT('132-byte rcd length to rcv splf')
10/09/08 07:14:42  P  P  DM  QTFFP00023/QTCP/059735  DURANE   10.21.72.10  FTSPRV  COMMAND  ISRO
SBMJOB CMD(DSPSYSTS *print) OUTQ(QPRINT2) JOBQ(QSYSNOMAX) JOB(DSPSYSTS4)

More...

F3=Exit  F12=Cancel  F19=Left  F20=Right  F24=More keys

```

The Network Transactions by Server report lists transactions sorted by the server name that have occurred on the RRM server. This report is generated by typing Option 17 and pressing ENTER on the Remote Transaction Reports menu.

Use this report to manage access to the RRM server based on transactions sorted by the originating server. The following figure shows an example of the Network Transactions by Server report.

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|---|--|--|--|--|--|--|--|--|--|-----------------------------|--|--|--|--|--|--|--|--|--|
| Rpt Id: NW000018 | | | | | | | | | | Network Transactions by Server | | | | | | | | | | Date: 18/09/08 | | | | | | | | | |
| System: ISR02 | | | | | | | | | | | | | | | | | | | | Time: 13:09:29 | | | | | | | | | |
| Selection Criteria: | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| User Name : *ALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Transactions . . . : *ALL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| From Date/Time . . : 01/08/08 0:00:00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| To Date/Time . . . : 18/09/08 23:59:59 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Filter Name : *NONE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Date_____Time_____ | | | | | | | | | | RRM DMA Entry Job Id | | | | | | | | | | Incoming Incoming | | | | | | | | | |
| P/F P/F Type_ Name/User/Nbr_____ | | | | | | | | | | User_____Address_____ | | | | | | | | | | ----- Operations ----- Swap | | | | | | | | | |
| | | | | | | | | | | Server Function Command Profile_____Sys | | | | | | | | | | | | | | | | | | | |
| 10/09/08 09:27:14 P P DC QZSCSRVS/QUSER/059700 | | | | | | | | | | SMITHE 10.21.25.5 | | | | | | | | | | CENTRAL LICREQ | | | | | | | | | |
| 5722XE1 5050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/09/08 10:20:49 P P DC QZSCSRVS/QUSER/059798 | | | | | | | | | | PMB 10.21.24.53 | | | | | | | | | | CENTRAL LICREQ | | | | | | | | | |
| 5722XE1 5050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10/09/08 10:52:34 P P DC QZSCSRVS/QUSER/059797 | | | | | | | | | | PMB 10.21.24.53 | | | | | | | | | | CENTRAL LICREQ | | | | | | | | | |
| 5722XE1 5050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11/09/08 09:22:15 P P DC QZSCSRVS/QUSER/059808 | | | | | | | | | | SMITHE 10.21.25.5 | | | | | | | | | | CENTRAL LICREQ | | | | | | | | | |
| 5722XE1 5050 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15/09/08 13:31:13 P P DI QPWFSESVSO/QUSER/060186 | | | | | | | | | | QSECOFR 127.0.0.1 | | | | | | | | | | FILE ALLOCON | | | | | | | | | |
| 15/09/08 13:31:14 P P DI QPWFSESVSO/QUSER/060186 | | | | | | | | | | QSECOFR 127.0.0.1 | | | | | | | | | | FILE DELETE | | | | | | | | | |
| /QIBM/UserData/OS/Service/Logs/SRVMON/CleanupLog.log | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15/09/08 13:31:14 P P DI QPWFSESVSO/QUSER/060186 | | | | | | | | | | QSECOFR 127.0.0.1 | | | | | | | | | | FILE LISTATT | | | | | | | | | |
| /QIBM/UserData/OS/Service/FFDC | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15/09/08 13:31:14 P P DI QPWFSESVSO/QUSER/060186 | | | | | | | | | | QSECOFR 127.0.0.1 | | | | | | | | | | FILE DELETE | | | | | | | | | |
| /QIBM/UserData/OS/Service/Logs/SRVMON/IgnoredTue Aug 05 09:38:16 CDT 2008.log | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15/09/08 13:31:14 P P DI QPWFSESVSO/QUSER/060186 | | | | | | | | | | QSECOFR 127.0.0.1 | | | | | | | | | | FILE DELETE | | | | | | | | | |
| /QIBM/UserData/OS/Service/Logs/SRVMON/LogTue Aug 05 09:38:16 CDT 2008.log | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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Use this report to manage access to the RRM server based on transactions sorted by incoming address. The following figure shows an example of the Network Transactions by Incoming Address report.

| | | | | | | | | | |
|---|----------|-----|-----|------|-----------------------|---------------|------------------|---------------------------------|--------|
| Rpt Id: NW000015 | | | | | | | | | |
| System: ISR02 | | | | | | | | | |
| Selection Criteria: | | | | | | | | | |
| User Name : *ALL | | | | | | | | | |
| Transactions . . . : *ALL | | | | | | | | | |
| From Date/Time . . : 01/08/08 0:00:00 | | | | | | | | | |
| To Date/Time . . . : 18/09/08 23:59:59 | | | | | | | | | |
| Filter Name : *NONE | | | | | | | | | |
| Filter Criteria . . : | | | | | | | | | |
| RRM DMA Entry Job Id | | | | | | | | | |
| Date | Time | P/F | P/F | Type | Name/User/Nbr | Incoming User | Incoming Address | ----- Operations ----- | Swap |
| 17/09/08 | 09:51:46 | P | P | DC | QZSCSRVS/QUSER/060862 | DURANE | 10.16.4.128 | Server Function Command Profile | System |
| 5722XE1 | 5050 | | | | HOUSMITHE03 | | | CENTRAL LICREQ | ISR02 |
| 17/09/08 | 09:51:48 | P | P | DQ | QTVDEVICE/QTCP/060927 | ANONYMOUS | 10.16.4.128 | TELNET INIT | ISR02 |
| 17/09/08 | 09:52:29 | P | P | DQ | QTVDEVICE/QTCP/060924 | ANONYMOUS | 10.16.4.128 | TELNET INIT | ISR02 |
| 17/09/08 | 09:52:30 | P | P | DQ | QTVDEVICE/QTCP/060924 | ANONYMOUS | 10.16.4.128 | TELNET INIT | ISR02 |
| 17/09/08 | 12:59:16 | P | P | DB | QZSOSIGN/QUSER/061027 | SMITHE | 10.16.4.152 | SIGNON INFO | ISR02 |
| 17/09/08 | 12:59:22 | P | P | DC | QZSCSRVS/QUSER/061324 | SMITHE | 10.16.4.152 | CENTRAL LICREQ | ISR02 |
| 5722XE1 | 5050 | | | | HOUSMITHE03 | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |

Option 5 Work Management Reports Menu

| | | | |
|---|---------------------------------|----------------|----------------|
| PA155 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | Work Management Report Menu | QPADEV000Q | Time: 16:52:18 |
| Select one of the following: | | | |
| 1 Crt, Chg, Restore of User Profiles | | | |
| 2 Changes To System Values | | | |
| 3 Changes to Network Attributes | | | |
| 4 Changes to Subsystem Routing | | | |
| 5 Changes to the USER of a JOBD | | | |
| 6 Actions That Affect Jobs | | | |
| 7 System Management Changes | | | |
| 8 Changes to Network Profiles | | | |
| 9 Changing Service Status | | | |
| 10 Object/User Auditing Attr Changes | | | |
| Enter Option or Function/Type ==> _____ | | | |
| F1=Help | F3=Exit | F6=Messages | F9=Window |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |

Option 1 Create, Change, Restore of User Profiles

This report includes a record for each user profile that is created, changed, or restored.

Purpose

Use this report to review all new and restored user profiles, as well as any changes to user profiles. Deleted profiles will appear on the Deleted Objects report (option text is "All delete operations on the system").

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites
System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | |
|---------------------------------------|----------|----------|---------|----------|----------|-----------|----------|-----------|----------|---------|--------|
| Report of changes to user profiles. | | | | | | | | | | | |
| ACL28CP | | | | | | | | | | | |
| QUERY NAME AAQYCP | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | |
| AAOUT QTEMP QASYCPJE QASYCPJE | | | | | | | | | | | |
| DATE 02/11/98 | | | | | | | | | | | |
| TIME 19:38:32 | | | | | | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | | | | | | |
| Changes to User Profiles | | | | | | | | | | | |
| ACL28CP | | | | | | | | | | | |
| 02/11/98 | 19:38:32 | | | | | | | | | | PAGE 1 |
| CHANGED | USRPRF | USRPRF | *ALLOBJ | *JOBCTL | *SECADM | *SPLCTL | GROUP | INITIAL | LIMIT | DATE | TIME |
| BY USER | CHANGED | COMMAND | SPCAUT | PCAUT | SPCAUT | SPCAUT | PROFILE | PROGRAM | CAPAB | | |
| USER | STATUS | SYSTEM | ASSWORD | PASSWORD | PASSWORD | *SAVSYS | *SERVICE | GROUP | INITIAL | SORT | MENU |
| CLASS | | NAME | CHANGED | *NONE | EXPIRED | SPCAUT | SPCAUT | AUTHORITY | MENU | LIBRARY | |
| CURRENT | | | | | | | | | | | |
| LIBRARY | | | | | | | | | | | |
| END | EXH | CRT | Y | Y | QPGMR | PENTAINIT | *NO | 02/10/98 | 16:52:31 | | |
| *USER | *ENABLED | PENTA401 | | Y | MAIN | 980210 | QSYS | | | | |

Option 2 Changes To System Values

This report shows the before and after change values for System Values.

Purpose

Use this report to review changes to system values, some of which are performance-related and can drastically impact your system, if changed improperly. Other system values affect the security of your system (i.e., whether QSECOFR can sign-on to all or only selected workstations).

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites
System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | |
|--|------------|----------|--------------|------------|------------|----------|---------|-----------|-------------|
| Changes to System Values Report | | | | | | | | | |
| AACL28SV | | | | | | | | | |
| QUERY NAME AAQYSV | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYSVJE QASYSVJE | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | |
| TIME 11:47:59 | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | |
| Changes to System Values | | | | | | | | | |
| AACL28SV | | | | | | | | | |
| 07/12/99 | 11:47:59 | | | | | | | | PAGE |
| System Value | Date | Time | User Profile | Entry Type | Job Name | Job User | Job Nbr | Program | System Name |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Old Value | | | | | | | | | |
| New Value | | | | | | | | | |
| ----- | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:42:31 | CLS | A | QPADEV000B | CLS | 51865 | \$CLSTART | ISIS |
| MDY | | | | | | | | | |
| DMY | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:42:35 | CLS | A | QPADEV000B | CLS | 51865 | \$CLSTART | ISIS |
| MDY | | | | | | | | | |
| DMY | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:47:40 | SGS | A | QPADEV000F | SGS | 51947 | MSCL120 | ISIS |
| MDY | | | | | | | | | |
| DMY | | | | | | | | | |
| QDATFMT | 1999-07-12 | 11:47:45 | SGS | A | QPADEV000F | SGS | 51947 | MSCL120 | ISIS |
| MDY | | | | | | | | | |
| DMY | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | |

The following Entry Types may be included:

- A** A system value was changed
- B** Service attributes were changed

Option 3 Changes To Network Attributes

This report shows the before and after change values for Network Attributes.

Purpose

Use this report to review changes to Network Attributes, some of which are associated with remote users, personal computers, and distributed services.

The Network Attributes control the way in which your system communicates with other systems. Some network attributes control the manner in which remote requests to process jobs and access information are handled. The values for these network attributes directly affect your system’s security. Network Attributes can be changed using the Change Network Attributes (CHGNETA) command.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | |
|---|------------|------|--------|------------|---------|--------|-------|-----------|------|
| Changes to Network Attributes Report | | | | | | | | | |
| AACL28NA | | | | | | | | | |
| QUERY NAME AAQYNA | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYNAGE QASYNAGE | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | |
| TIME 13:15:27 | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | |
| Changes to Network Attributes | | | | | | | | | |
| AACL28NA | | | | | | | | | |
| 07/12/99 | 13:15:27 | | | | | | | | PAGE |
| DATE | JOB | JOB | JOB | PROGRAM | USER | SYSTEM | ENTRY | NETWORK | |
| | NAME | USER | NUMBER | NAME | PROFILE | NAME | TYPE | ATTRIBUTE | |
| NEW NETWORK | VALUE | | | | | | | | |
| OLD NETWORK | VALUE | | | | | | | | |
| 1999-06-04 | QPADEV000Q | BTF | 23,887 | AACLEXT | BTF | ISIS | A | DDMACC | |
| *OBJAUT | | | | | | | | | |
| AACLDDM | | | | | | | | | |
| 1999-06-04 | QPADEV000Q | BTF | 23,887 | AACLEXT | BTF | ISIS | A | DDMACC | |
| AACLDDM | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | DDMACC | |
| *OBJAUT | | | | | | | | | |
| AACLDDM | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | PCSACC | |
| *OBJAUT | | | | | | | | | |
| *REGFAC | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | DDMACC | |
| AACLDDM | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | PCSACC | |
| *REGFAC | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | DDMACC | |
| *OBJAUT | | | | | | | | | |
| AACLDDM | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTRMV | PDA | ISIS | A | PCSACC | |
| *OBJAUT | | | | | | | | | |
| *REGFAC | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | DDMACC | |
| AACLDDM | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-08 | QPADEV000T | PDA | 24,832 | AACLEXTADD | PDA | ISIS | A | PCSACC | |
| *REGFAC | | | | | | | | | |
| *OBJAUT | | | | | | | | | |
| 1999-06-14 | QPADEV000P | JDB | 27,008 | ZPCL31 | JDB | ISIS | A | JOBACN | |
| *OBJAUT | | | | | | | | | |
| *SEARCH | | | | | | | | | |
| *SEARCH | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | |

Option 4 Changes To Subsystem Routing

This report shows routing entries that have been added, changed, or removed from your subsystem descriptions.

Purpose

Use this report to review routing entry changes made to your subsystem descriptions. Each routing entry specifies the parameters used to start a routing step for a job. For example, the routing entry specifies the name of the program to run and the priority when a job enters the system. Application-level security may be bypassed as a result. An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | |
|--|----------|--------|---------|-----------|----------|----------|---------|------------|------------|
| Changes to Subsystem Description Routing Entries Report | | | | | | | | | |
| AACL28SE | | | | | | | | | |
| QUERY NAMEAAQYSE | | | | | | | | | |
| LIBRARY NAMEPSAUDIT | | | | | | | | | |
| FILELIBRARYMEMBERFORMAT | | | | | | | | | |
| AAOUTQTEMPQASYSEJEQASYSEJE | | | | | | | | | |
| DATE07/12/99 | | | | | | | | | |
| TIME13:16:05 | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | |
| Changes to Subsystem Routing Entries | | | | | | | | | |
| PAGE 1 | | | | | | | | | |
| AACL28SE | | | | | | | | | |
| USER | LIBRARY | SBSD | OBJECT | PROGRAM | PROGRAM | SEQUENCE | COMMAND | DATE | SYSTEM |
| PROFILE | NAME | NAME | TYPE | NAME | LIBRARY | NUMBER | NAME | | NAME |
| EHD | PSAUDIT | ZALOG | *SBSD | ALCL80 | PSAUDIT | 0010 | CHG | 1999-06-15 | ISIS |
| | PSAUDIT | ZALOG | *SBSD | ALCL80 | PSAUDIT | 0010 | CHG | 1999-06-17 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 0300 | ADD | 1999-06-09 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCL | QSYS | 0700 | ADD | 1999-06-09 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 9999 | ADD | 1999-06-09 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 0300 | ADD | 1999-06-09 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCL | QSYS | 0700 | ADD | 1999-06-09 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 9999 | ADD | 1999-06-09 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 0300 | ADD | 1999-06-16 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 0300 | ADD | 1999-06-16 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCL | QSYS | 0700 | ADD | 1999-06-16 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 9999 | ADD | 1999-06-16 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCL | QSYS | 0700 | ADD | 1999-06-16 | ISIS |
| | PSCOMMON | PSWORK | *SBSD | QCMD | QSYS | 9999 | ADD | 1999-06-16 | ISIS |
| | PSCOMMON | ZPSE | *SBSD | PSEAGENTD | PSCOMMON | 0100 | ADD | 1999-06-18 | ISIS |
| | PSCOMMON | ZPSE | *SBSD | PSEAGENT | PSCOMMON | 0200 | ADD | 1999-06-18 | ISIS |
| | PSCOMMON | ZPSE | *SBSD | QCMD | QSYS | 9999 | ADD | 1999-06-18 | ISIS |
| | PSSECURE | ZASBS | *SBSD | ASCL08 | PSSECURE | 0010 | CHG | 1999-06-15 | ISIS |
| | PSSECURE | ZASBS | *SBSD | ASCL08 | PSSECURE | 0010 | CHG | 1999-06-17 | ISIS |
| Number of Changes by User | | | | | | | | | |
| COUNT 19 | | | | | | | | | |
| | JDB | QSYS | QSYSWRK | *SBSD | QUMBDMN | QUMEDIA | 2545 | ADD | 1999-06-28 |
| Number of Changes by User | | | | | | | | | |
| COUNT 1 | | | | | | | | | |
| Total Number of Changes | | | | | | | | | |
| COUNT 20 | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | |
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Option 5 Changes to the USER of a JOB

This report shows the before and after change value to the USER parameter of a Job Description (*JOB) object.

Purpose

Use this report to review job descriptions changed to specify a different value for the USER parameter.

It is important to monitor these changes because a job submitted with such a job description could be made to run under the profile and using the authority of the profile specified in the USER parameter.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| Job Descriptions (*JOBDD) With Changes To The USER Parameter Report | | | | | | | | | | |
|---|--|------------------------|----------|---------------|---------------|----------|----------|------------|------------|--------|
| AACL28JD | | | | | | | | | | |
| | | QUERY NAME | | AAQYJD | | | | | | |
| | | LIBRARY NAME | | PSAUDIT | | | | | | |
| | | FILE | LIBRARY | MEMBER | FORMAT | | | | | |
| | | AAOUT | QTEMP | QASYJDJE | QASYJDJE | | | | | |
| | | DATE | 07/12/99 | | | | | | | |
| | | TIME | 13:16:08 | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| 07/12/99 13:16:08 | Job Descriptions (*JOBDD) With Changes To The USER Parameter | | | | | | | | | PAGE 1 |
| AACL28JD | | | | | | | | | | |
| Changed By User | System | Entry Type | Cmd Type | Jobdd Changed | Jobdd Library | Obj Type | Old User | New User | Chg Date | |
| EHD | ISIS | A | CHG | AAMON | PSAUDIT | *JOB | PENTAAA | PENTAAA | 1999-06-15 | |
| | ISIS | A | CHG | AAMONAA | PSAUDIT | *JOB | PENTAAA | PENTAAA | 1999-06-15 | |
| | ISIS | A | CHG | AAMONDD | PSAUDIT | *JOB | PENTAAA | PENTAAA | 1999-06-15 | |
| | ISIS | A | CHG | ZALOG | PSAUDIT | *JOB | QSYSOPR | QSYSOPR | 1999-06-15 | |
| | ISIS | A | CHG | AAMON | PSAUDIT | *JOB | PENTAAA | PENTAAA | 1999-06-17 | |
| | ISIS | A | CHG | AAMONAA | PSAUDIT | *JOB | PENTAAA | PENTAAA | 1999-06-17 | |
| | ISIS | A | CHG | AAMONDD | PSAUDIT | *JOB | PENTAAA | PENTAAA | 1999-06-17 | |
| | ISIS | A | CHG | ZALOG | PSAUDIT | *JOB | QSYSOPR | QSYSOPR | 1999-06-17 | |
| | ISIS | A | CHG | PSDDFTJOB | PSDETECT | *JOB | QSYSOPR | QSYSOPR | 1999-06-18 | |
| | ISIS | A | CHG | PSDDFTPR | PSDETECT | *JOB | QSYSOPR | QSYSOPR | 1999-06-18 | |
| | ISIS | A | CHG | PSDSTRSBS | PSDETECT | *JOB | QSYSOPR | QSYSOPR | 1999-06-18 | |
| | ISIS | A | CHG | PSDSTRALT | PSDETECT | *JOB | QSYSOPR | QSYSOPR | 1999-06-18 | |
| | ISIS | A | CHG | PSDSTRACT | PSDETECT | *JOB | QSYSOPR | QSYSOPR | 1999-06-18 | |
| | ISIS | A | CHG | PSDSTRNET | PSDETECT | *JOB | QSYSOPR | QSYSOPR | 1999-06-18 | |
| | ISIS | A | CHG | PSDSTRPGR | PSDETECT | *JOB | QSYSOPR | QSYSOPR | 1999-06-18 | |
| Number by User | | | | | | | | | | |
| COUNT 15 | | | | | | | | | | |
| JDB | ISIS | A | CHG | PENTA2P | PSSECURE | *JOB | *RQD | PENTA2P | 1999-06-14 | |
| | ISIS | A | CHG | PENTA2P | PSSECURE | *JOB | *RQD | PENTA2P | 1999-06-23 | |
| | ISIS | A | CHG | ASJD01 | PSSECURE | *JOB | PSSYSOPR | PSSYSOPR | 1999-06-24 | |
| | ISIS | A | CHG | ASJD02 | PSSECURE | *JOB | PSSYSOPR | PSSYSOPR | 1999-06-24 | |
| Number by User | | | | | | | | | | |
| COUNT 4 | | | | | | | | | | |
| PDA | ISIS | A | CHG | PSDDFTJOB | PSDETECT | *JOB | QSYSOPR | PSDETECTOP | 1999-06-03 | |
| | ISIS | A | CHG | PSDDFTPR | PSDETECT | *JOB | QSYSOPR | PSDETECTOP | 1999-06-03 | |
| | ISIS | A | CHG | PSDSTRSBS | PSDETECT | *JOB | QSYSOPR | PSDETECTOP | 1999-06-03 | |
| | ISIS | A | CHG | PSDSTRALT | PSDETECT | *JOB | QSYSOPR | PSDETECTOP | 1999-06-03 | |
| | ISIS | A | CHG | PSDSTRACT | PSDETECT | *JOB | QSYSOPR | PSDETECTOP | 1999-06-03 | |
| | ISIS | A | CHG | PSDSTRNET | PSDETECT | *JOB | QSYSOPR | PSDETECTOP | 1999-06-03 | |
| | ISIS | A | CHG | PSDSTRPGR | PSDETECT | *JOB | QSYSOPR | PSDETECTOP | 1999-06-03 | |
| | ISIS | A | CHG | ASJD01 | PSSECURE | *JOB | PSSYSOPR | PSSYSOPR | 1999-06-15 | |
| | ISIS | A | CHG | ASJD02 | PSSECURE | *JOB | PSSYSOPR | PSSYSOPR | 1999-06-15 | |
| Number by User | | | | | | | | | | |
| COUNT 9 | | | | | | | | | | |
| Total number of changes | | | | | | | | | | |
| COUNT 28 | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

Option 6 Actions That Affect Jobs

This report shows who is running batch jobs as well as any action performed on any other job.

Purpose

Use this report to see who is running batch jobs as well as any actions performed against any other jobs, such as holding, releasing, canceling, or changing jobs.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *JOBDA.

| | | | | | | | | | | | | | | | |
|---------------------|------|---------|--|------------|------------|------------|--------------------------|-----------|----------|------------------|-----------------|-------|--------|---------|----------|
| 02/11/98 19:42:55 | | | | | | | Actions That Affect Jobs | | | | | | | PAGE | |
| | | | | | | | AACL28JS | | | | | | | | |
| Date | | Time | | Ent Typ | Job Typ | Sub Typ | System | Job Name | Job User | JobNbr | User Profile | Jobd | Jobq | Outq | Program |
| ----- | | | | | | | | | | | | | | | |
| Library List | | | | | | | | | | | | | | | |
| Supplemental Groups | | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | |
| 02/10/98 | | 0:00:02 | | S | B | | PENTA401 | GETCURDAT | EHD | 239899 | EHD | EHD | QPGMR | QPRINTS | QWTPPIPP |
| QSYSOVR | QSYS | QSYS2 | | | QHLPSYS | | QUSRSYS | PENTA | | PENTAFILESOSLSYS | | QTEMP | EHD | QGGL | TAATOOLF |
| 02/10/98 | | 0:00:06 | | E | B | | PENTA401 | GETCURDAT | EHD | 239899 | EHD | EHD | QPGMR | QPRINTS | QWTPITPP |
| QSYSOVR | QSYS | QSYS2 | | | QHLPSYS | | QUSRSYS | PENTA | | PENTAFILESOSLSYS | | QTEMP | EHD | QGGL | TAATOOLF |
| 02/10/98 | | 0:55:00 | | S | B | | PENTA401 | AL_END | EHD | 239905 | EHD | EHD | QINTER | QPRINTS | QWTPPIPP |
| QSYSOVR | QSYS | QSYS2 | | | QHLPSYS | | QUSRSYS | PENTA | | PENTAFILESOSLSYS | | QTEMP | EHD | QGGL | TAATOOLF |
| 02/10/98 | | 0:55:00 | | E | B | | PENTA401 | AL_END | EHD | 239905 | EHD | EHD | QINTER | QPRINTS | QWTPITPP |
| QSYSOVR | QSYS | QSYS2 | | | QHLPSYS | | QUSRSYS | PENTA | | PENTAFILESOSLSYS | | QTEMP | EHD | QGGL | TAATOOLF |

The following Entry Types may be included:

- A** The ENDJOBABN command was used
- B** A job was submitted
- C** A job was changed
- E** A job was ended
- H** A job was held
- I** A job was disconnected
- M** Modify profile or group profile

- N** The ENDJOB command was used
- P** A program start request was attached to a pre-start job
- R** A held job was released
- S** A job was started

The following Job Types may be included:

- A** Autostart
- B** Batch
- I** Interactive
- M** Subsystem monitor
- R** Reader
- S** System
- W** Writer
- X** SCPF

These Job Subtypes may also appear:

- “** No subtype
- D** Batch immediate
- E** Procedure start request
- J** Pre-start
- P** Printer driver
- T** MRT
- U** Alternate spool user

Option 7 System Management Changes

This report shows changes to system management tasks.

Purpose

Use this report to review changes to system management tasks, such as changing a reply list or the power on/off schedule.

This report can be used to detect attempts to use system management functions to circumvent security controls.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SYSMGT.

| | | | | | | | | | | |
|---|------------|-----------|----------|----------|-----------------|------------------|----------------|----------------|---------|--------|
| System Management Changes Report | | | | | | | | | | |
| AACL28SM | | | | | | | | | | |
| QUERY NAME AAQYSM | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP QASYSMJE QASYSMJE | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | |
| TIME 13:17:38 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| System Management Changes | | | | | | | | | | |
| AACL28SM | | | | | | | | | | |
| 07/12/99 13:17:38 | | | | | | | | | | |
| PAGE 1 | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ | Acc Typ | Msg ID |
| ----- | | | | | | | | | | |
| File | | | | | | | | | | |
| Relational Database | System | File Name | Member | File# | Ntwk File Owner | Ntwk File Origin | Ntwk File User | Ntwk File Adrs | | |
| ----- | | | | | | | | | | |
| 1999-06-02 14:17:43 | ISHTAR | QUSER | 23184 | QCNTEDDM | QUSER | ISIS | D | A | | |
| ISIS | | | | | | | | | | |
| 1999-06-02 14:18:09 | ISHTAR | QUSER | 23184 | QCNTEDDM | QUSER | ISIS | D | A | | |
| ISIS | | | | | | | | | | |
| 1999-06-02 14:18:25 | ISHTAR | QUSER | 23184 | QCNTEDDM | QUSER | ISIS | D | A | | |
| ISIS | | | | | | | | | | |
| 1999-06-02 14:20:47 | ISHTAR | QUSER | 23184 | QCNTEDDM | QUSER | ISIS | D | A | | |
| ISIS | | | | | | | | | | |
| 1999-06-02 14:22:47 | QPADEV0002 | BTF | 23072 | MSCL120 | BTF | ISIS | D | T | | |
| *ALL | | | | | | | | | | |
| 1999-06-02 14:23:14 | QPADEV0002 | BTF | 23072 | MSCL120 | BTF | ISIS | D | T | | |
| ISIS | | | | | | | | | | |
| Number of system management changes | | | | | | | | | | |
| COUNT 6 | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

The following Entry Types may be included:

- B** Backup options were changed using Operational Assistant
- C** Automatic cleanup options were changed using Operational Assistant
- D** A DRDA* change was made
- F** An HFS file system was changed
- N** A network file operation was performed
- O** A backup list was changed using Operational Assistant
- P** The power on/off schedule was changed using Operational Assistant
- S** The system reply list was changed
- T** The access path recovery times were changed

The following Access Types may be included:

- A** Add
- C** Change
- D** Delete
- R** Remove
- S** Display
- T** Retrieve or receive

Option 8 Changes to Network Profiles

This report identifies network profiles that are added, changed, or deleted.

Purpose

Use this report to monitor changes to network profile user or group records and the type of changes made.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | | |
|-------------------|------------------|---|---------------|--------|---------|--------------|----------|---------|---------|-------------|-------------|------|
| 02/11/98 19:44:41 | | Changes To Network Profiles AACL28VU | | | | | | | | | | PAGE |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Rcd Typ | Server | Date Logged | Time Logged | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | |
| Computer | Change Requester | Chg Typ | Resource Name | | | | | | | | | |
| ----- | ----- | ----- | ----- | | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 7:02:29 | |
| *** | | C | GCG | | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 7:02:30 | |
| *** | | C | GCG | | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 7:02:30 | |
| *** | | C | GCG | | | | | | | | | |
| 02/10/98 | 8:20:23 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 8:20:29 | |
| *** | | C | REH | | | | | | | | | |
| 02/10/98 | 8:20:23 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 8:20:30 | |
| *** | | C | REH | | | | | | | | | |
| 02/10/98 | 8:20:23 | PENTANS | QSYS | 235225 | QCMD | QSYS | PENTA401 | U | PENTANS | 98/02/10 | 8:20:30 | |

The following Record Types may be included:

- G** Group record was changed
- U** User record was changed
- M** User profile global information was changed

The following are the possible Change Action Types:

- A** Addition
- C** Change
- D** Deletion
- P** Incorrect password

Option 9 Changing Service Status

This report identifies the use of service tools and changes to system services.

Purpose

Use this report to review changes to system services, identifying the user and computer requesting the change. The use of service tools, such as DMPOBJ (Dump Object) and STRCPYSCN (Start Copy Screen) will be reported. This report can be used to detect attempts to circumvent security by using service tools. An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SERVICE.

| | | | | | | | | | | | | |
|-----------------------------------|---------|----------|----------|--------|---------|--------------|----------|----------|---------|-------------|-------------|---------|
| Change Service Status Report | | | | | | | | | | | | |
| AACL28VV | | | | | | | | | | | | |
| QUERY NAME AAQYVV | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | |
| AAOUT QTEMP QASYVVJE QASYVVJE | | | | | | | | | | | | |
| DATE 07/13/99 | | | | | | | | | | | | |
| TIME 09:43:15 | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | |
| Change Service Status | | | | | | | | | | | | |
| AACL28VV | | | | | | | | | | | | |
| 07/13/99 09:43:15 | | | | | | | | | | | | |
| PAGE 1 | | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Type | Server | Date Logged | Time Logged | Rqs Sts |
| ----- | | | | | | | | | | | | |
| Computer Change Text Being Set | | | | | | | | | | | | |
| Requester By Service Request | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | QSYS | 235355 | QCMD | EHD | PENTA401 | C | PENTANS | 98/02/10 | 7:02:29 | Y |
| *** | | | | | | | | | | | | |
| 02/10/98 | 7:02:24 | PENTANS | QSYS | 235355 | QCMD | EHD | PENTA401 | C | PENTANS | 98/02/10 | 7:02:29 | Y |
| *** | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | |

The following Entry Types may be included:

- C** The service status was changed
- E** The server was stopped
- P** The server paused
- R** The server was restarted
- S** The server was started

Option 10 Object/User Auditing Attr Changes

This report shows changes to object auditing and user auditing.

Purpose

Use this report to monitor objects and user profiles changed to different auditing levels.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SECURITY.

| Object and User Profile Auditing Attribute Changes Report | | | | | | | | | | | | | | | | | | | |
|---|----------|------------|-----------|----------|-----------|----------|-------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| AACL28AD | | | | | | | | | | | | | | | | | | | |
| QUERY NAMEAAQYAD | | | | | | | | | | | | | | | | | | | |
| LIBRARY NAMEPSAUDIT | | | | | | | | | | | | | | | | | | | |
| FILELIBRARY | | | | | | | | | | | | | | | | | | | |
| AAOUTQTEMP | | | | | | | | | | | | | | | | | | | |
| DATE07/12/99 | | | | | | | | | | | | | | | | | | | |
| TIME13:17:55 | | | | | | | | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | | | | | | | | |
| Object and User Profile Auditing Attribute Changes | | | | | | | | | | | | | | | | | | | |
| AACL28AD | | | | | | | | | | | | | | | | | | | |
| 07/12/99 13:17:55 | | | | | | | | | | | | | | | | | | | |
| Date | Time | Ent | Object | Library | Obj | Type | CHGOBJAUD | New Value | Cmd | Crt | Dlt | Dta | Mgt | Srv | Adp | Rst | Sec | Svc | Spl |
| | | | | | | | | | | | | | | | | | | | |
| System | User | Profile | Job Name | Job User | JobNbr | DLO Name | Folder Path | | | | | | | | | | | | |
| 1999-06-01 | 13:19:25 | O | *N | | | *STMF | *NONE | | | | | | | | | | | | |
| ISIS | CLS | QPADEV000B | CLS | | 22643 | | | | | | | | | | | | | | |
| 1999-06-03 | 16:05:51 | U | EHD | | QSYS | *USRPRF | *ALL | | Y | | | | | | | | | | |
| ISIS | EHD | QPADEV000C | EHD | | 23414 | | | | | | | | | | | | | | |
| 1999-06-10 | 17:06:18 | O | UTRPTP01 | | PSTOOLSF | *FILE | *NONE | | | | | | | | | | | | |
| ISIS | EHD | QPADEV0003 | EHD | | 25701 | | | | | | | | | | | | | | |
| 1999-06-10 | 17:06:44 | O | GPFC011 | | EHD | *PGM | *NONE | | | | | | | | | | | | |
| ISIS | EHD | QPADEV0003 | EHD | | 25701 | | | | | | | | | | | | | | |
| 1999-06-10 | 17:06:55 | O | RRMFX | | EHD | *FILE | *NONE | | | | | | | | | | | | |
| ISIS | EHD | QPADEV0003 | EHD | | 25701 | | | | | | | | | | | | | | |
| 1999-06-10 | 17:07:08 | O | TS115FF_O | | EHD | *FILE | *NONE | | | | | | | | | | | | |
| ISIS | EHD | QPADEV0003 | EHD | | 25701 | | | | | | | | | | | | | | |
| 1999-06-10 | 17:07:30 | O | FWLOGA02 | | PENTAGOLD | *FILE | *NONE | | | | | | | | | | | | |
| Number of auditing changes | | | | | | | | | | | | | | | | | | | |
| COUNT 6 | | | | | | | | | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc | | | | | | | | | | | | | | | | | | | |

The following Entry Types may be included:

- D Auditing of a DLO was changed with CHGDLOAUD command
- O Auditing of an object was changed with CHGOBJAUD command
- U Auditing for a user was changed with CHGUSRAUD command

Option 6 Office, Directory, and Documents Rpts Menu

| | | | |
|-------|------------------------------------|------------|----------------|
| PA156 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | Office, Directory & Documents Rpts | QPADEV000Q | Time: 16:54:27 |

Select one of the following:

- 1 Deleted Office Documents
- 2 Link/Unlink/Lookup Dir Entries
- 3 Office Services Mail Actions
- 4 DLO Accessed (Change)
- 5 DLO Accessed (Read)
- 6 Object Primary Group Changes

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 Deleted Office Documents

This report lists the OfficeVision/400 documents that have been deleted.

Purpose

Use this report to review deleted office documents. Also use this report when you need to find out who deleted a specific document. An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *DELETE. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | | | | |
|-----------------------------------|--------|---------------|--------|------------|----------|------|------|--------|------|
| Deleted Office Documents Report | | | | | | | | | |
| AACL28D2 | | | | | | | | | |
| QUERY NAME AAQYD2 | | | | | | | | | |
| LIBRARY NAME FSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYDOJE QASYDOJE | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | |
| TIME 13:29:48 | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | |
| Deleted Documents | | | | | | | | | |
| AACL28D2 | | | | | | | | | |
| 07/12/99 13:29:48 | | | | | | | | | PAG |
| DELETED | OFFICE | FOLDER | OBJECT | DATE | TIME | JOB | JOB | JOB | PROG |
| DOCUMENT | USER | PATH | TYPE | | | NAME | USER | NUMBER | NAME |
| OR FOLDER | | | | | | | | | |
| ACCESS.LVL | QSYS | QJT400 | *DOC | 1999-06-26 | 13:04:38 | SCPF | QSYS | | QPZA |
| EHNDT.EXE | QSYS | QWIN16S | *DOC | 1999-06-26 | 13:05:28 | SCPF | QSYS | | QPZA |
| EHNEA.DLL | QSYS | QWIN16S | *DOC | 1999-06-26 | 13:06:12 | SCPF | QSYS | | QPZA |
| EHNEA.DLL | QSYS | QWIN16D | *DOC | 1999-06-26 | 13:06:17 | SCPF | QSYS | | QPZA |
| EHNP1.DLL | QSYS | QWIN16S | *DOC | 1999-06-26 | 13:06:11 | SCPF | QSYS | | QPZA |
| EHNP1.DLL | QSYS | QWIN16D | *DOC | 1999-06-26 | 13:06:16 | SCPF | QSYS | | QPZA |
| EHNSO.DLL | QSYS | QWIN16S | *DOC | 1999-06-26 | 13:06:12 | SCPF | QSYS | | QPZA |
| EHNSO.DLL | QSYS | QWIN16D | *DOC | 1999-06-26 | 13:06:16 | SCPF | QSYS | | QPZA |
| IBMLOGHI.BMP | QSYS | QPC5250P | *DOC | 1999-06-26 | 13:04:57 | SCPF | QSYS | | QPZA |
| IBMLOGHI.BMP | QSYS | QWIN16/PC5250 | *DOC | 1999-06-26 | 13:05:51 | SCPF | QSYS | | QPZA |
| IBMLOGLO.BMP | QSYS | QPC5250P | *DOC | 1999-06-26 | 13:04:53 | SCPF | QSYS | | QPZA |
| * * * E N D O F R E P O R T * * * | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | |

Option 2 Link/Unlink/Lookup Dir Entries

This report lists object linking and lookup actions performed on directories.

Purpose

Use this report to review these actions.

Prerequisites

Object auditing value of *CHANGE must be in use for the object.

| | | | | | | | | | | |
|---|-------------|--|----------|--------|----------|--------------|--------|----------------------|------|---|
| Link, Unlink, & Lookup Directory Entries Report | | | | | | | | | | |
| AACL28LD | | | | | | | | | | |
| QUERY NAME AAQYLD | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP QASYLDJE QASYLDJE | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | |
| TIME 13:29:27 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| 07/12/99 | 13:29:27 | Link, Unlink, & Lookup Directory Entries | | | | | | | PAGE | 1 |
| AACL28LD | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent File ID of | | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | Typ Parent Directory | | |
| File ID | Object Name | | | | | | | | | |
| Of Object | | | | | | | | | | |
| ----- | ----- | | | | | | | | | |
| 7/02/99 | 9:30:30 | GETCURDAT | EHD | 239899 | TAACMDCC | EHD | ISIS | L | | |
| | | ASCL20 | | | | | | | | |
| 7/02/99 | 9:30:30 | GETCURDAT | EHD | 239899 | TAACMDCC | EHD | ISIS | L | | |
| | | ASCL20 | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

The following Entry Types may be included:

- L** Link directory
- U** Unlink directory
- K** Search (lookup) directory

Option 3 Office Services Mail Actions

This report lists mail logs opened.

Purpose

Use this report to monitor users attempting to open another user’s mail log.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites
System value QAUDLVL must specify *OFCSRVR.

| 02/11/98 19:48:52 | | Office Services Mail Actions | | | | | | | | | | PAGE | 1 |
|-------------------|----------|------------------------------|----------|--------|---------|--------------|----------|------------|--------------|---------|--------------|------|---|
| AACL28ML | | | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Entry Type | User Profile | User ID | User Address | | |
| ----- | | | | | | | | | | | | | |
| 02/10/98 | 10:20:32 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 10:20:39 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 10:20:51 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 10:21:00 | QPADEV0011 | EHD | 240129 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 10:21:07 | QPADEV0011 | EHD | 240129 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 10:22:43 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 10:36:20 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 11:05:06 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 11:24:12 | QPADEV0011 | EHD | 240129 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 11:24:31 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 11:24:33 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 11:24:37 | QPADEV0002 | EHD | 240127 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 11:33:28 | QPADEV0056 | EHD | 240172 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |
| 02/10/98 | 11:33:33 | QPADEV0056 | EHD | 240172 | MSCL108 | EHD | PENTA401 | O | EHD | EHD | PENTA | | |

Option 4 DLO Accessed (Change)

This report lists Accesses (reads) of Document Library Objects (DLO).

Purpose
Use this report to monitor these actions.

Prerequisites
Object auditing value of *CHANGE must be in use for the DLO.

| | | | | | | | | | | | | | |
|--|---------|-----------------|-----|--------|-------|-----|------|----------------|----------|-----|---------|------|---|
| Document Library Objects Changed Report | | | | | | | | | | | | | |
| AACL28YC | | | | | | | | | | | | | |
| QUERY NAME AAQYYC | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | |
| AAOUT QTEMP QASYJCJE QASYJCJE | | | | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | | | | |
| TIME 13:29:36 | | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | | |
| Document Library Objects Changed | | | | | | | | | | | | | |
| AACL28YC | | | | | | | | | | | | | |
| 07/12/99 13:29:36 | | | | | | | | | | | | PAGE | 1 |
| Date Time Job Name Job User JobNbr Program User Profile System Ent Type Object Library Obj Type User | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | |
| DLO Name | | DLO Folder Path | | | | | | Behalf of User | | | Acc Typ | | |
| ----- | | | | | | | | | | | | | |
| 7/02/99 | 3:20:30 | QPADEV0056 | EHD | 234799 | ASPGM | EHD | ISIS | R | AASECM01 | EHD | *PGM | EHD | |
| | | | | | | | | | | | | 7 | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | | |

For a list of the codes for Access Types, see “Entry/Access Types” on page 194.

Option 5 DLO Accessed (Read)

This report lists changes to Document Library Objects (Dolls).

Purpose

Use this report to monitor these actions.

Prerequisites

Object auditing value of *ALL must be in use for the DLO.

| | | | | | | | | | | | | | | |
|---|----------|-----------------|----------|--------|---------|-----------|---------|---------|----------|------|--------|---------|----------|---------|
| Document Library Objects (DLOs) Read Report | | | | | | | | | | | | | | |
| AACL28YR | | | | | | | | | | | | | | |
| QUERY NAME AAQYYR | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | | |
| AAOUT QTEMP QASYRJE QASYRJE | | | | | | | | | | | | | | |
| DATE 07/13/99 | | | | | | | | | | | | | | |
| TIME 10:44:54 | | | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | | | |
| Document Library Objects (DLOs) Read | | | | | | | | | | | | PAG | | |
| AACL28YR | | | | | | | | | | | | | | |
| 07/13/99 | 10:44:54 | | | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User | Profile | System | Ent | Type | Object | Library | Obj Type | Use Off |
| ----- | | | | | | | | | | | | | | |
| DLO Name | | DLO Folder Path | | | | Behalf Of | | Acc Typ | | | | | | |
| ----- | | | | | | | | | | | | | | |
| 7/02/99 | 3:20:30 | QPADEV0056 | EHD | 234799 | ASPGM | EHD | ISIS | R | AASECM01 | EHD | | *PGM | EHD | |
| | | | | | | | | | | | 33 | | | |
| * * * END OF REPORT * * * | | | | | | | | | | | | | | |
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For a list of the codes for Access Types, see “Entry/Access Types” on page 194.

Option 6 Object Primary Group Changes

This report identifies changes to an object’s primary group.

Purpose

Use this report to review these actions.

Prerequisites
System value QAUDLVL must specify *SECURITY.

| | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Object Primary Group Changes Report | | | | | | | | | | | | | | | |
| AACL28PG | | | | | | | | | | | | | | | |
| QUERY NAME AAQVPG | | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | | | |
| AAOUT QTEMP QASYPGJE QASYPGJE | | | | | | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | | | | | | |
| TIME 13:29:50 | | | | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | | | | |
| Object Primary Group Changes | | | | | | | | | | | | | | | |
| AACL28PG | | | | | | | | | | | | | | | |
| 07/12/99 13:29:50 | | | | | | | | | | | | | | | |
| PAGE 1 | | | | | | | | | | | | | | | |
| Date Time Job Name Job User JobNbr Program User Profile System Ent | | | | | | | | | | | | | | | |
| Type Object Library Obj Type | | | | | | | | | | | | | | | |
| Behalf Of Office User DLO Name Old Group New Group Exst Mgt Opr Alt Ref Mgt Read Add Upd Dlt Exec Excl Rvk | | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | | |
| 1999-06-26 12:15:51 SCPF *NONE QSYS 0 QWCISCFR QSYS ISIS A QPZR001796 QSYS *PGM Y | | | | | | | | | | | | | | | |
| 1999-06-26 12:15:51 SCPF *NONE QSYS 0 QWCISCFR QSYS ISIS A QPZR001797 QSYS *PGM Y | | | | | | | | | | | | | | | |
| 1999-06-26 12:15:52 SCPF *NONE QSYS 0 QWCISCFR QSYS ISIS A QPZR001798 QSYS *PGM Y | | | | | | | | | | | | | | | |
| 1999-06-26 12:15:52 SCPF *NONE QSYS 0 QWCISCFR QSYS ISIS A QPZR001799 QSYS *PGM Y | | | | | | | | | | | | | | | |
| 1999-06-26 12:15:52 SCPF *NONE QSYS 0 QWCISCFR QSYS ISIS A QPZR001800 QSYS *PGM Y | | | | | | | | | | | | | | | |
| 1999-06-26 12:15:52 SCPF *NONE QSYS 0 QWCISCFR QSYS ISIS A QPZR001801 QSYS *PGM Y | | | | | | | | | | | | | | | |
| Number of object primary group changes | | | | | | | | | | | | | | | |
| COUNT 6 | | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | | | | |

Option 7 Restore Reports Menu

| | | | |
|-------|---------------------------------|------------|----------------|
| PA157 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | Restore Reports Menu | QPADEV000Q | Time: 16:56:39 |

Select one of the following:

- 1 Restore Pgms Adopting Owners Auth
- 2 Restore JOBDs w/User Profile Names
- 3 Restore Objects with Owner Changes
- 4 Restore Objects with Auth. Changes
- 5 User Profiles with Restored Auth
- 6 Restore of Objects
- 7 Restore of *CRQD objects
- 8 Restored objects w/Primary Grp Chg

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 Restore Pgms Adopting Owner's Auth

This report lists restored program objects that adopt their owner's authority.

Purpose

Use this report to review restored programs that may compromise security, since this is another way to change the security level of an object.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | |
|--|--------------------|--|-----------|-------|----------|----------|
| Report of restored objects when authority is adopted | | | | | | |
| AACL28RP | | | | | | |
| QUERY NAME AAQYRP | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | |
| FILE | LIBRARY | MEMBER | FORMAT | | | |
| AAOUT | QTEMP | QASYPFJE | QASYRPFJE | | | |
| DATE | 02/11/98 | | | | | |
| TIME | 19:52:21 | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | |
| 02/11/98 | 19:52:21 | Restored Objects When Authority is Adopted | | | | PAGE 1 |
| AACL28RP | | | | | | |
| USER | LIBRARY | PROGRAM | OBJECT | OWNER | SYSTEM | DATE |
| PROFILE | NAME | NAME | TYPE | | NAME | |
| EHD | QTEMP | AAAC001 | *PGM | QPGMR | PENTA401 | 02/10/98 |
| EHD | QTEMP | AAAC001 | *PGM | QPGMR | PENTA401 | 02/10/98 |
| EHD | QTEMP | AAAC001 | *PGM | QPGMR | PENTA401 | 02/10/98 |
| EHD | QTEMP | AAAC001 | *PGM | QPGMR | PENTA401 | 02/10/98 |
| EHD | QTEMP | AAAC001 | *PGM | QPGMR | PENTA401 | 02/10/98 |
| EHD | QTEMP | AAAC001 | *PGM | QPGMR | PENTA401 | 02/10/98 |

Option 2 Restore JOBDs w/User Profile Names

This report lists restored job descriptions that specify a User Profile.

Purpose

Use this report to find any restored job descriptions that specify a value other than *RQD in the USER parameter. This is another way to change the security level of an object.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | |
|---|------------|--|----------|----------|------------|--------|
| Restored Job Descriptions That Contain User Profiles Report | | | | | | |
| AACL28RJ | | | | | | |
| QUERY NAME AAQYRJ | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | |
| FILE | LIBRARY | MEMBER | FORMAT | | | |
| AAOUT | QTEMP | QASYRJJE | QASYRJJE | | | |
| DATE 07/12/99 | | | | | | |
| TIME 14:15:01 | | | | | | |
| Filter used for Report: DEFAULT | | | | | | |
| 07/12/99 14:15:01 | | Restored Job Descriptions with User Profiles | | | PAGE | 1 |
| AACL28RJ | | | | | | |
| USER | JOB | LIBRARY | OBJECT | USER | DATE | SYSTEM |
| PROFILE | NAME | NAME | TYPE | NAME | | NAME |
| CLS | AAMON | CLSTEST2 | *JOB | PENTAAA | 1999-06-18 | ISIS |
| CLS | AAMONAA | CLSTEST2 | *JOB | PENTAAA | 1999-06-18 | ISIS |
| CLS | AAMONDD | CLSTEST2 | *JOB | PENTAAA | 1999-06-18 | ISIS |
| CLS | ZALOG | CLSTEST2 | *JOB | QSYSOPR | 1999-06-18 | ISIS |
| JDB | EVENTCLNUP | JDBEVENTS | *JOB | EVENTMGR | 1999-06-01 | ISIS |
| JDB | EVENTSCHDR | JDBEVENTS | *JOB | EVENTMGR | 1999-06-01 | ISIS |
| Number of Restored Job Descriptions | | | | | | |
| COUNT 6 | | | | | | |
| *** END OF REPORT *** | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | |

Option 3 Restore Objects with Owner Changes

This report lists objects whose owner was changed during the restore operation.

Purpose

Use this report to list any objects whose owner was changed to QDFTOWN during the restore operation. This is another way to change the security level of an object.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | |
|---|----------|---|----------|-------|-------|----------|
| Report of restored objects when ownership changes | | | | | | |
| AACL28RO | | | | | | |
| QUERY NAME AAQYRO | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | |
| FILE | LIBRARY | MEMBER | FORMAT | | | |
| AAOUT | QTEMP | QASYROJE | QASYROJE | | | |
| DATE 02/11/98 | | | | | | |
| TIME 19:54:36 | | | | | | |
| V-AA4.0 (c) 1997 PentaSafe PSAudit/AA | | | | | | |
| 02/11/98 | 19:54:36 | Restored Objects When Ownership Changes | | | PAGE | 1 |
| AACL28RO | | | | | | |
| USER | LIBRARY | OBJECT | OBJECT | OLD | NEW | DATE |
| PROFILE | NAME | NAME | TYPE | OWNER | OWNER | |
| REH | ELTEXBOB | QCLSRC | *FILE | PENTA | QPGMR | 02/10/98 |
| REH | ELTEXBOB | QDDSSRC | *FILE | PENTA | QPGMR | 02/10/98 |
| REH | ELTEXBOB | QRPGSRC | *FILE | PENTA | QPGMR | 02/10/98 |
| Number of Restored Objects | | | | | | |
| COUNT 3 | | | | | | |
| *** END OF REPORT *** | | | | | | |

Option 4 Restore Objects with Auth Changes

This report lists objects whose authority was changed during the restore operation.

Purpose

Use this report to list any objects whose authority was changed by the system during the restore operation. This is another way to change the security level of an object.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | | | | |
|--|----------|---|----------|----------|-----------|-----------|---------|--------|------------|
| Restored Objects When Authority Changes Report | | | | | | | | | |
| AACL28RA | | | | | | | | | |
| QUERY NAME AAQYRA | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP QASYRAJE QASYRAJE | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | |
| TIME 14:15:15 | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | |
| Restored Objects When Authority Changes | | | | | | | | | |
| AACL28RA | | | | | | | | | |
| 07/12/99 | 14:15:15 | Restored Objects When Authority Changes | | | | | | | PAGE 1 |
| USER | LIBRARY | RESTORED | AACL28RA | AUTL | PUBLIC | PRIVATE | AUTL | SYSTEM | DATE |
| PROFILE | NAME | OBJECT | OBJECT | NAME | AUTHORITY | AUTHORITY | REMOVED | NAME | |
| EHD | PSCOMMON | AACLEXT | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLEXTADD | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLEXTCA | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLEXTDM | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLEXTEOJ | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLEXTRMV | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLEXTSTR | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLRRMCLT | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLRRMCLO | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AACLRRMCLL | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AADSPEXT | FILE | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | AARPEXT | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| | PSCOMMON | LODUSRFC | PGM | PSSECURE | | | | ISIS | 1999-06-18 |
| Number of Restored Objects | | | | | | | | | |
| COUNT 13 | | | | | | | | | |
| Number of Restored Objects | | | | | | | | | |
| COUNT 13 | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | |

Option 5 User Profiles With Restored Auth

This report identifies user profiles whose authorities were restored.

Purpose

Use this report to list any user profiles whose private authorities were restored using the Restore Authority (RSTAUT) command. This is another way to change the security level of an object.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | |
|---|--------------|--|----------|
| Restored Profiles with Authority Changes Report | | | |
| AACL28RU | | | |
| QUERY NAME | ... | AAQYRU | |
| LIBRARY NAME | ... | PSAUDIT | |
| FILE | LIBRARY | MEMBER | FORMAT |
| AAOUT | QTEMP | QASYRUJE | QASYRUJE |
| DATE | ... | 07/12/99 | |
| TIME | ... | 14:15:07 | |
| Filter used for Report: DEFAULT | | | |
| 07/12/99 | 14:15:07 | Restored Profiles with Authority Changes | |
| AACL28RU | | PAGE | |
| USER THAT RESTORE | USER OBJECT | SYSTEMDATE | |
| PROFILE AUTHOR | PROFILE TYPE | NAME | |
| | RESTORED | | |
| REH | CLS*FILE | ISIS07/03/98 | |
| REH | CLS *FILE | ISIS07/03/98 | |
| REH | CLS *FILE | ISIS07/03/98 | |
| REH | CLS *FILE | ISIS07/03/98 | |
| *** END OF REPORT *** | | | |
| (c) 1998 PentaSafe, Inc. | | | |

Option 6 Restore of Objects

This report identifies new and existing objects restored to the system.

Purpose

Use this report to detect attempts to restore unauthorized objects.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | | | |
|---------------------------------|----------|-----------------------------|----------|--------------|---------|--------------|----------|--------------|
| 02/11/98 19:58:01 | | Object Restores AACL280R | | | | | PAGE 1 | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ |
| Object Restored | | Library | Obj Type | Object Saved | Library | Sys Pgm | Sys Cmd | Office Usr |
| | | | | | | | | Restored DLO |
| 02/10/98 | 11:01:55 | QPADEV0060 | REH | 239994 | QCMD | REH | PENTA401 | E |
| QCLSRC | ELTEXBOB | *FILE | QCLSRC | ELTEXBOB | | | | |
| 02/10/98 | 11:01:55 | QPADEV0060 | REH | 239994 | QCMD | REH | PENTA401 | E |
| QDDSSRC | ELTEXBOB | *FILE | QDDSSRC | ELTEXBOB | | | | |
| 02/10/98 | 11:01:55 | QPADEV0060 | REH | 239994 | QCMD | REH | PENTA401 | E |
| QRPGSRC | ELTEXBOB | *FILE | QRPGSRC | ELTEXBOB | | | | |
| Number of objects restored | | | | | | | | |
| COUNT 3 | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | |
| (c) Auto-Audit, Penta Inc. 1992 | | | | | | | | |

The following Entry Types may be included:

- N** A new object was restored to the system
- E** An existing object was restored to the system

Option 7 Restore of *CRQD objects

This report lists Change Request Description (*CRQD) objects restored with PROFILE(*OWNER).

Purpose

Use this report to list all Change Request Description (*CRQD) objects that were restored to the system with PROFILE(*OWNER) specified, thus adopting authority.

An adequate approach to satisfy auditors' requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | | | | | | |
|--------------------------|---------|---|----------|--------|------------|--------------|----------|-------------------------|---------|----------|--|
| 07/12/99 14:15:15 | | Change Request Description (*CRQD) Objects Restored | | | | | | | | PAGE 1 | |
| AACL28RQ | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent *CRQD Typ Object | Library | Obj Type | |
| 07/03/99 | 9:34:40 | QPADEV0004 | EHD | 239523 | BGNRPFJOBI | EHD | PENTA401 | R GPPC011 | EHD | *PGM | |
| 07/03/99 | 9:34:40 | QPADEV0004 | EHD | 239523 | BGNRPFJOBI | EHD | PENTA401 | R GPPC011 | EHD | *PGM | |
| *** END OF REPORT *** | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | |

Option 8 Restored objects w/Primary Grp Chg

This report lists objects whose primary group was changed during the restore operation.

Purpose

Use this report to list all objects whose primary group was changed during the restore operation.

An adequate approach to satisfy auditors’ requirements is to run this report on a monthly basis.

Prerequisites

System value QAUDLVL must specify *SAVRST. If object auditing is active for an object, an audit record is written for a create, delete, object management, or restore operation even if these actions are not included in the audit level.

| | | | | | | | | | | | | | |
|-----------------------------------|-----------|-----------|------------|--------------------------------------|--------|------------|--------------|----------|---------|---------|----------|----------|--|
| 07/12/99 14:15:17 | | | | Primary Group Changes During Restore | | | | | | | | PAGE | |
| | | | | AACL28RZ | | | | | | | | | |
| | Date | Time | Job Name | Job User | JobNbr | Program | User Profile | Ent Type | Object | Library | Obj Type | DLO Name | |
| System | Old Group | New Group | | | | | | | | | | | |
| ISIS | 07/05/99 | 9*40:30 | QPADEV0004 | EHD | 23454 | BGNGRPJOBI | EHD | R | GPPC011 | EHD | *PGM | | |
| | *NONE | *NONE | | | | | | | | | | | |
| ISIS | 07/05/99 | 9*40:30 | QPADEV0004 | EHD | 23454 | BGNGRPJOBI | EHD | R | GPPC011 | EHD | *PGM | | |
| | *NONE | *NONE | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | | |

Option 8 Spooling & Printing Reports Menu

| | | | |
|-------|----------------------------------|------------|----------------|
| PA158 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | Spooling & Printing Reports Menu | QPADEV000Q | Time: 16:58:03 |

Select one of the following:

- 1 Printed Output
- 2 Actions to Spool Files

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 Printed Output

This report identifies printing functions.

Purpose

Use this report as desired to show actions such as printing a spooled file, printing directly from a program, or sending a spooled file to a remote printer.

This report can be used to detect printing of confidential information.

Prerequisites

System value QAUDLVL must specify *PRTDTA.

| | | | | | | | | | | | | |
|---|---------------------|----------|-----------|------------------------------|------------------------|--------------|--------|---------|---------|-----------------|-----------------|---------------|
| Printed Output Report | | | | | | | | | | | | |
| ACL28PO | | | | | | | | | | | | |
| QUERY NAME AAQYPO | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | |
| AAOUT QTEMP QASYPOJE QASYPOJE | | | | | | | | | | | | |
| DATE 07/12/99 | | | | | | | | | | | | |
| TIME 15:03:46 | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | |
| Printed Output | | | | | | | | | | | | |
| ACL28PO | | | | | | | | | | | | |
| 07/12/99 | 15:03:46 | | | | | | | | | | | PAGE 1 |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Prt Typ | Prt Sts | Output Job Name | Output Job User | Output JobNbr |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| Outq | SpLf Name | SpLf Nbr | User Data | Output Sent To Remote System | Rmt System Print Queue | | | | | | | |
| ----- | ----- | ----- | ----- | ----- | ----- | | | | | | | |
| LEXP | 1999-06-01 9:32:27 | LEXP | QSPDJOB | 21678 | QCMD | QSPDJOB | ISIS | S | S | LSTTAPE | JDB | 022596 |
| | | 0001 | | | | | | | | | | |
| LEXP | 1999-06-01 11:41:41 | LEXP | QSPDJOB | 21678 | QCMD | QSPDJOB | ISIS | S | S | LSTTAPE2 | JDB | 022618 |
| | | 0001 | | | | | | | | | | |
| LEXP | 1999-06-01 12:43:18 | LEXP | QSPDJOB | 21678 | QCMD | QSPDJOB | ISIS | S | D | QPADEV0002 | CAA | 022642 |
| | | 0001 | ZPRP11 | | | | | | | | | |
| LEXP | 1999-06-01 16:02:34 | LEX | QSPDJOB | 19746 | QCMD | EHD | ISIS | R | D | QPADEV000C | EHD | 022585 |
| | | 0008 | PSSECURE | 192.168.255.63 | | | | | | | | |
| LEX | 1999-06-01 17:22:05 | LEX | QSPDJOB | 19746 | QCMD | KVG | ISIS | R | H | QPRTJOB | KVG | 021593 |
| | | 0009 | | 192.168.255.63 | | | | | | | | |
| LEX | 1999-06-01 17:22:29 | LEXP | QSPDJOB | 21678 | QCMD | QSPDJOB | ISIS | S | D | QPRTJOB | KVG | 021593 |
| | | 0009 | | | | | | | | | | |
| LEXP | 1999-06-02 10:40:58 | LEX | QSPDJOB | 19746 | QCMD | EHD | ISIS | R | D | QPADEV000F | EHD | 023066 |
| | | 0001 | RFQ0907 | 192.168.255.63 | | | | | | | | |
| LEX | 1999-06-02 14:09:18 | LEXP | QSPDJOB | 21678 | QCMD | QSPDJOB | ISIS | S | H | QPADEV000N | JDB | 022974 |
| | | | | | | | | | | | | |
| Number of printed output files | | | | | | | | | | | | |
| COUNT 7 | | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | |

The following Output/Print Types may be included:

- D** Printer output was printed directly to a printer
- R** Output was sent to remote system to print
- S** Printer output was spooled and printed

The Print Status can be any of the following:

- D** Deleted after printed
- H** Held after printed
- S** Saved after printed
- 'b'** Direct print

Note: 'b' indicates a blank

Option 2 Actions to Spool Files

This report lists operations performed on spooled files.

Purpose

Use this report as desired to list actions performed on spooled files, such as creating, copying, and sending.

This report can be used to detect attempts to print or send confidential data.

Prerequisites

System value QAUDLVL must specify *SPLFDTA.

| | | | | | | | | | | | | |
|-------------------|------------|--------------------------|-------------|------------|------------|--------------|----------|---------|----------|-----------|----------|---|
| 02/11/98 20:01:40 | | Actions To Spooled Files | | | | | | | | PAGE | | 1 |
| AACL28SF | | | | | | | | | | | | |
| Date | Time | Job Name | Job User | JobNbr | Program | User Profile | System | Ent Typ | Obj Type | Splf Name | Splf Nbr | |
| Old Outq | Old Copies | Old Form | Old Restart | Old Str Pg | Old End Pg | | | | | | | |
| New Outq | New Copies | New Form | New Restart | New Str Pg | New End Pg | | | | | | | |
| 02/10/98 | 0:00:05 | GETCURDAT | EHD | 239899 | TAACMDDC | EHD | PENTA401 | C | *FILE | QPDSPJOB | 0001 | |
| QPRINTS | | | | | | | | | | | | |
| 02/10/98 | 0:00:05 | GETCURDAT | EHD | 239899 | TAACMDDC | EHD | PENTA401 | D | *FILE | QPDSPJOB | 0001 | |
| QPRINTS | | | | | | | | | | | | |
| 02/10/98 | 6:45:02 | LST_MAIL | EHD | 239933 | TAACMDDC | EHD | PENTA401 | D | *FILE | MKR318P | 0001 | |
| PRTLPO1 | | | | | | | | | | | | |
| 02/10/98 | 6:45:07 | LST_MAIL | EHD | 239933 | MKR318 | EHD | PENTA401 | C | *FILE | MKR318P | 0001 | |

Entry/Access Types

The following Entry/Access Types may be included:

- A** A spooled file was read by someone other than the owner
- C** A spooled file was created
- D** A spooled file was deleted
- H** A spooled file was held
- I** An online file was created
- R** A spooled file was released
- U** A spooled file was changed

Chapter 8

Option 6 AS/400 System Report Menu

The AS/400 System Report Menu provides functions which inform you about the server and also assist in managing the system.

| | | | |
|---|---|----------------------------------|---------------------------------|
| PA16 | PentaSafe Security Technologies AS/400 System Reports Menu | CAS QPADEV000Q | Date: 6/06/00 Time: 16:59:26 |
| Select one of the following: | | | |
| 1 System Values | | 14 System Dist Directory Entries | |
| 2 AS/400 Device Address Report | | | |
| 3 System Configuration List | | | |
| 4 Network Attributes | | | |
| 5 System Status Report | | | |
| 6 Disk Status Report | | | |
| 7 Active Jobs Report | | | |
| 8 Local Hardware Report | | | |
| 9 Device Configuration Changes | | | |
| 10 Configuration Status of Lines | | | |
| 11 Configuration Status of Controller | | | |
| 12 Output Queue Descriptions | | | |
| 13 Network Job Entries | | | |
| Enter Option or Function/Type ==> _____ | | | |
| F1=Help | F3=Exit | F6=Messages | F9=Window |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |

Option 1 System Values

This report shows all of the current system values on your system. It also provides the shipped values that originally came with your server. This is helpful to identify what system values have been changed over time.

| | | | | | |
|----------------|-----------|---------|--|---|--|
| System Values | | Page 1 | | PENTA401 02/11/98 20:01 | |
| 5763SS1 V3R2M0 | 960517 | | | | |
| | Current | Shipped | | | |
| Name | value | value | | Description | |
| QABNORMSW > | 1 | 0 | | Previous end of system indicator | |
| QACGLVL | *NONE | *NONE | | Accounting level | |
| QACTJOB > | 201 | 20 | | Initial number of active jobs | |
| QADLACTJ > | 20 | 10 | | Additional number of active jobs | |
| QADLSPLA | 2048 | 2048 | | Spooling control block additional storage | |
| QADLTOTJ > | 200 | 10 | | Additional number of total jobs | |
| QALWOBJRST | *ALL | *ALL | | Allow object restore option | |
| QALWUSRDMN | *ALL | *ALL | | Allow user domain objects in libraries | |
| QASTLVL > | *INTERMED | *BASIC | | User assistance level | |
| QATNPGM | *ASSIST | *ASSIST | | Attention program | |
| QAUDCTL > | *AUDLVL | *NONE | | Auditing control | |
| | *OBJAUD | ' ' | | | |
| QAUDENDACN | *NOTIFY | *NOTIFY | | Auditing end action | |
| QAUDFRCLVL | *SYS | *SYS | | Force auditing data | |
| QAUDLVL > | *SAVRST | *NONE | | Security auditing level | |

Option 2 AS/400 Device Address Report

This report shows all of the current local device addresses on your system. After you supply the local workstation controller (CTL01, CTL02 are common), the report will give the port, address, device name and device type.

| | | | | | | | | | | |
|-----------------------|---------|-------------------------------------|--------|---|---------|----------|---------|------------------|---|------|
| 5763SS1 V3R2M0 960517 | | Device Addresses for | | | | PENTA401 | | 2/12/98 15:59:27 | | Page |
| | | Local Work Station Controller CTL01 | | | | | | | | |
| | | Type 915A | | | | | | | | |
| Switch Setting --> 0 | | 1 | 2 | 3 | 4 | 5 | 6 | | | |
| ----- | | | | | | | | | | |
| : | : | : | : | : | : | : | : | : | : | : |
| Port 0 : | DSP01 | : | PRT02 | : | TEST | : | DSP02 | : | : | : |
| : | *DSP | : | *PRT | : | *DSP | : | *DSP | : | : | : |
| : | 3196 A1 | : | 5225 4 | : | 3196 A1 | : | 3477 FG | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : |
| : | : | : | : | : | : | : | : | : | : | : |
| ----- | | | | | | | | | | |
| : | : | : | : | : | : | : | : | : | : | : |
| : | PRTDM01 | : | : | : | : | : | : | : | : | : |
| Port 1 : | *PRT | : | : | : | : | : | : | : | : | : |

Option 3 System Configuration List

This option accesses the IBM Work with Hardware Products screen, which can be used to produce a list of the hardware items associated with the system. This report is required by IBM when the system is inoperable.

Option 4 Network Attributes

This report shows all the network attributes of a system. Use this report in conjunction with the Report of Security Recommendations to identify network attributes that may need to be changed.

| | | | | |
|---|--------------------|-----------|------------------|------|
| 5763SS1 V3R2M0 960517 | Network Attributes | | 2/11/98 20:01:49 | Page |
| Current system name | SYSNAME | PENTA401 | | |
| Pending system name | | | | |
| Local network ID | LCLNETID | APPN | | |
| Local control point name | LCLCPNAME | PENTA401 | | |
| Default local location | LCLLOCNAME | PENTA401 | | |
| Default mode | DFTMODE | PENTA | | |
| APPN node type | NODETYPE | *ENDNODE | | |
| Data compression | DTACPR | *NONE | | |
| Intermediate data compression | DTACPRINM | *NONE | | |
| Maximum number of intermediate sessions | MAXINTSSN | 200 | | |
| Route addition resistance | RAR | 128 | | |
| 5763SS1 V3R2M0 960517 | Network Attributes | | 2/11/98 20:01:49 | Page |
| Network node servers: | NETSERVER | | | |
| Server network ID/control point name | | *LCLNETID | *ANY | |
| Alert status | ALRSTS | *OFF | | |
| Alert logging status | ALRLOGSTS | *NONE | | |
| Alert primary focal point | ALRPRIFP | *NO | | |
| Alert default focal point | ALRDFTFP | *NO | | |

Option 5 System Status Report

Use this report to monitor how much auxiliary storage is used. Lack of sufficient storage can result in slow response times or in system failure, if system runs out of space. A utilization greater than 80% should signal a warning, while anything greater than 90% should require immediate attention.

| | | | | | | | | | | | | | | | |
|-----------------------------------|--------|----------|-----|-------|---------|-------|-----------|------|-------|-------------------------------------|-----------|---------------|----------------|-----------|--------|
| System Status Information | | | | | | | | | | Page 1 | | | | | |
| 5763SS1 V3R2M0 960517 | | | | | | | | | | | | PENTA401 | 02/11/98 20:02 | | |
| % CPU used : 5.8 | | | | | | | | | | System ASP : 12835 M | | | | | |
| Elapsed time : 00:01:00 | | | | | | | | | | % system ASP used : 86.3551 | | | | | |
| Jobs in system : 1399 | | | | | | | | | | Total aux stg : 12835 M | | | | | |
| % perm addresses : 11.315 | | | | | | | | | | Current unprotect used . . : 1554 M | | | | | |
| % temp addresses : 7.407 | | | | | | | | | | Maximum unprotect : 1723 M | | | | | |
| Sys | Pool | Reserved | Max | ---- | DB----- | --- | Non-DB--- | Act- | Wait- | Act- | | | | | |
| Pool | Size K | Size K | Act | Fault | Pages | Fault | Pages | Wait | Inel | Inel | Pool | Subsystem | Library | Paging | Option |
| 1 | 20164 | 9610 | +++ | .0 | .0 | .0 | .3 | 9.8 | .0 | .0 | *MACHINE | | | | *FIXED |
| 2 | 36089 | 0 | 10 | .0 | .1 | .7 | 44.9 | 19.7 | .0 | .0 | *BASE | | | | *CALC |
| 3 | 655 | 0 | 4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | *SPOOL | | | | *CALC |
| 4 | 3276 | 0 | 4 | .0 | .0 | .0 | .0 | .0 | .0 | .0 | *INTERACT | | | | *CALC |
| 5 | 5352 | 0 | 4 | .1 | .1 | .3 | 2.2 | .9 | .0 | .0 | *SHRPOOL1 | | | | *CALC |
| * * * * * | | | | | | | | | | E N D O F | | L I S T I N G | | * * * * * | |

Option 6 Disk Status Report

On this report, look for even distribution under the ‘% Used’ column for each disk unit. The percentage of the disk that is currently allocated. Unusually uneven distribution could signal possible system problems.

Option 7 Active Jobs Report

This is a “snapshot” of the active jobs on the system, sorted by subsystem. This report should be reviewed with the MIS manager to identify unfamiliar subsystems, since it is possible to attach workstations to an interactive subsystem for intrusion.

Option 8 Local Hardware Report

This report lists the various types of System Resource Management (SRM) information. Review this report with the MIS manager to identify extra or missing hardware.

| | | | | | | | |
|-------------------------|------|-------|---------------|-------------------------|----------------------------|----------|---------------|
| Hardware Resources List | | | | Page | 1 | | |
| 5763SS1 V3R2M0 960517 | | | | Hardware Resources List | | PENTA401 | 02/11/98 20:0 |
| Resource | Type | Model | Serial Number | Resource | Description | | |
| 9152 | 001 | | 10-6036087 | CMB01 | Combination I/O Processors | | |
| 6605 | 030 | | 00-0154214 | DC01 | Disk Storage Controller | | |
| 6605 | 030 | | 00-0154214 | DD001 | Disk Unit | | |
| 6605 | 030 | | 00-0155153 | DC02 | Disk Storage Controller | | |
| 6605 | 030 | | 00-0155153 | DD002 | Disk Unit | | |
| 6380 | 001 | | 00-4276701 | DC03 | Tape Controller | | |
| 6380 | 001 | | 00-4276701 | TAP01 | Tape Unit | | |
| 2612 | 001 | | 10-6030330 | LIN01 | Comm Adapter | | |
| 2612 | 001 | | 10-6030330 | LIN011 | V.24 Port Enhanced | | |
| 915A | 001 | | 10-6036087 | WC01 | Work Station Processor | | |
| 915A | 001 | | 10-6036087 | CTL01 | Work Station Controller | | |
| 3196 | 0A1 | | 00-0000000 | CTL010000 | Work Station Device | | |
| 2621 | 001 | | 10-6016034 | SI01 | Storage Controller | | |
| 6512 | 001 | | 10-6036023 | SI02 | Storage Controller | | |

Option 9 Device Configuration Changes

This report will list any changes to the hardware devices on your system. This report will identify if a new device has been added or changed.

| | | | | | | | | |
|---------------------------------|----------|----------|----------|------------------------------|----------|-------------|---------|----|
| AACL33DC | | | | Device Configuration Changes | | 2:03:27 | 8/18/98 | PA |
| SELECTION CRITERIA: DEFAULT | | | | | | | | |
| LIBRARY : QSYS | | | | | | | | |
| FROM DATE : 7/01/1998 | | | | | | | | |
| TO DATE : 8/18/1998 | | | | | | | | |
| LIBRARY | OBJECT | OBJ TYPE | CHG DATE | OWNER | SYSTEM # | OBJECT TEXT | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | | |
| QSYS | ANICO | *DEVD | 8/17/98 | QSECOFR | PENTA401 | | | |
| QSYS | APACHE | *DEVD | 8/17/98 | QPGMR | PENTA401 | | | |
| QSYS | ASHBROOK | *DEVD | 8/17/98 | QSECOFR | PENTA402 | | | |
| QSYS | BPCHEM | *DEVD | 8/17/98 | QSECOFR | PENTA401 | | | |
| QSYS | DANIEL | *DEVD | 8/17/98 | QSECOFR | PENTA402 | | | |
| QSYS | EHOMES | *DEVD | 8/17/98 | QSECOFR | PENTA401 | | | |
| QSYS | SHELLPP | *DEVD | 8/17/98 | MAL | PENTA401 | | | |
| QSYS | SHINTECH | *DEVD | 8/17/98 | QSECOFR | PENTA402 | | | |
| QSYS | SWCHEM | *DEVD | 8/17/98 | QSECOFR | PENTA401 | | | |
| QSYS | TICO | *DEVD | 8/17/98 | QSECOFR | PENTA401 | | | |
| QSYS | TRZ | *DEVD | 8/17/98 | QSECOFR | PENTA401 | | | |
| QSYS | VALLEN | *DEVD | 8/17/98 | QSECOFR | PENTA402 | | | |
| LIBRARY TOTAL: 13 | | | | | | | | |
| TOTAL OBJECTS CHANGED: 13 | | | | | | | | |

Option 10 Configuration Status of Lines

This report lists the line descriptions and associated down-line descriptions, such as controllers, devices, and modes. The MIS manager should be able to identify each line and its purpose.

| Work with Configuration Status | | | Page 1 | | | |
|--------------------------------|------|-----------------|---------------|----------|----------|--|
| 5763SS1 V3R2M0 960517 | | | PENTA401 | 02/11/98 | 20:05:03 | |
| Description | Type | Status | -----Job----- | | | |
| CUSSUP | *LIN | CONNECT PENDING | | | | |
| CUSSUP2 | *LIN | CONNECT PENDING | | | | |
| CUSSUP3 | *LIN | CONNECT PENDING | | | | |
| DBSSRV | *LIN | VARIED OFF | | | | |
| ETHLIN1 | *LIN | ACTIVE | | | | |
| PCASR | *CTL | ACTIVE | | | | |
| PCASR | *DEV | ACTIVE | | | | |
| QPCSUPP | *MOD | ACTIVE/TARGET | PCASR | EXH | 241132 | |
| QPCSUPP | *MOD | ACTIVE/TARGET | PCASR | EXH | 241131 | |
| QPCSUPP | *MOD | ACTIVE/TARGET | PCASR | EXH | 241134 | |
| QPCSUPP | *MOD | ACTIVE/TARGET | PCASR | EXH | 241133 | |
| QPCSUPP | *MOD | ACTIVE/TARGET | PCASR | EXH | 241130 | |
| PCSERVE2 | *CTL | ACTIVE | | | | |
| PCSERVE200 | *DEV | ACTIVE | | | | |
| QPCSUPP | *MOD | ACTIVE/TARGET | QZSCSRVR | QUSER | 240159 | |
| QPCSUPP | *MOD | ACTIVE/TARGET | PCSERVE200 | SAL | 240403 | |

Option 11 Configuration Status of Controller

This report lists the controller descriptions and associated down-line descriptions, such as devices and modes. The MIS manager should be able to identify each controller and its purpose.

| Work with Configuration Status | | | Page 1 | | |
|--------------------------------|--------|-----------------|---------------------|----------|----------|
| 5763SS1 | V3R2M0 | 960517 | PENTA401 | 02/11/98 | 20:05:08 |
| Description | Type | Status | -----Job----- | | |
| ANICO | *CTL | VARY ON PENDING | Pass-through device | | |
| ANICO | *DEV | VARY ON PENDING | | | |
| ANYCTL | *CTL | VARIED ON | | | |
| APACHE | *CTL | VARY ON PENDING | | | |
| APACHE | *DEV | VARY ON PENDING | | | |
| ASHBROOK | *CTL | VARY ON PENDING | | | |
| ASHBROOK | *DEV | VARY ON PENDING | | | |
| AS400VWC | *CTL | VARIED OFF | | | |
| AS400V1 | *DEV | VARIED OFF | | | |
| AS400V2 | *DEV | VARIED OFF | | | |
| BPCHEM | *CTL | VARY ON PENDING | | | |
| BPCHEM | *DEV | VARY ON PENDING | | | |
| CTL01 | *CTL | ACTIVE | | | |
| DSP02 | *DEV | VARY ON PENDING | | | |
| RMT09 | *DEV | VARY ON PENDING | | | |
| RMT10 | *DEV | VARY ON PENDING | | | |

Option 12 Output Queue Descriptions

This report shows all attributes of each output queue. The security-related information is 'Display Any File', 'Operator Controlled', 'Authority', and 'Remote System'. These settings control who can read, change, delete, and manipulate spool files in the output queue. Reports of a sensitive nature should be routed to secured output queues.

| 02/13/98 13:17:01 | | AAQY091 | | | | | | | | | | Output Queue Descriptions | | PAGE | |
|-------------------|----------|---------|------|---------------|------------|---------|------------|-------|-------|-------|--------|---------------------------|-------------------|------|--|
| Outque | Library | Writer | Held | Max Spl Files | Auto Start | Dsp Any | Oper Ctl'd | Order | Data | Queue | Author | Remote | Text | | |
| AA | QUSRSYS | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | *BLANK | | |
| AAOUTQ | QUSRSYS | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | outq for aa repor | | |
| AA2 | QGPL | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | *BLANK | | |
| ASOQ01 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.3 (c) PENTA | | |
| ASOQ01 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.2 (c) PENTA | | |
| ASOQ01 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.3 (c) PENTA | | |
| ASOQ01 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.2 (c) PENTA | | |
| ASOQ01 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS8.2 (c) PENTA | | |
| ASOQ01 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS6.7 (c) PENTA | | |
| ASOQ02 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.3 (c) PENTA | | |
| ASOQ02 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.2 (c) PENTA | | |
| ASOQ02 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.3 (c) PENTA | | |
| ASOQ02 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS9.2 (c) PENTA | | |
| ASOQ02 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS8.2 (c) PENTA | | |
| ASOQ02 | PSSECURE | | N | *NONE | *NONE | *NO | *YES | *FIFO | *NONE | | *OWNER | *NONE | V-AS6.7 (c) PENTA | | |

Option 13 Network Job Entries

This report lists, by user profile and address, all the network job entries. Network job entries are used to determine the action taken when an input stream is sent to a user on the system using the Submit Network Job (SBMNETJOB) command. A network job entry determines whether the input stream is automatically submitted, placed on the queue of network files for a user, or rejected. The entry also specifies the user profile that is used for checking the authority to the job description referred to by the input stream. There must be one entry for each user or distribution group who intends to submit jobs to this system. Note, the network attribute, JOBACN (Job Action), provides overall control of network job submission.

| | | | | | | | | | | |
|-----------------------------------|----------|---------|---------|---------------------------------|---------|------|---------|-----------------|--|------|
| AARP93 | | | | NETWORK JOB ENTRIES INFORMATION | | | | 3:54:15 1/10/00 | | Page |
| | | | | ---MESSAGE-QUEUE--- | | | | ---JOB-QUEUE--- | | |
| USER ID | ADDRESS | ACTION | USER | NAME | LIBRARY | NAME | LIBRARY | | | |
| PENTA2P | NOTHERE | *SUBMIT | PENTA2P | *USRPRF | n/a | QCTL | QSYS | | | |
| PENTA2P | PENTA401 | *SUBMIT | PENTA2P | *USRPRF | n/a | QCTL | QSYS | | | |
| PENTA2P | PENTA421 | *SUBMIT | PENTA2P | *USRPRF | n/a | QCTL | QSYS | | | |
| PENTA2P | RCHAS260 | *SUBMIT | PENTA2P | *USRPRF | n/a | QCTL | QSYS | | | |
| PENTA2P | TCPIPLOC | *SUBMIT | PENTA2P | *USRPRF | n/a | QCTL | QSYS | | | |
| ===== | | | | | | | | | | |
| Number of entries: | | | 5 | | | | | | | |
| ===== | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |

Option 14 System Dist Directory Entries

System distribution directory entries are required to send network files and messages between systems. It is important that only authorized profiles are allowed and special attention should be given to all *ANY user ID entries.

This report lists, by user profile, address, and system name, all the system distribution directory entries.

| AARP88 | | | | | | SYSTEM DISTRIBUTION DIRECTORY ENTRIES | | 3:54:13 1/10/00 | | Page | |
|--------------------|----------|----------|-------|-----------------------------------|----------|---------------------------------------|--|-----------------------|----------|----------|-------|
| | | | | | | | | -----LAST-UPDATE----- | | | |
| USER ID | ADDRESS | SYSTEM | GROUP | USR PRF | NETWORK | USER ID | | DATE | TIME | USER | ADDRE |
| *ANY | DOMINO1 | DOMINO1 | n/a | n/a | *ANY | DOMINO1 | | 3/28/98 | 14:25:09 | GAS | PENTA |
| *ANY | PENTA | PENTA401 | n/a | n/a | *ANY | PENTA | | 3/28/98 | 14:37:03 | GAS | PENTA |
| *ANY | PENTA401 | PENTA401 | n/a | n/a | *ANY | PENTA401 | | 7/13/98 | 16:34:49 | JXO | PENTA |
| *ANY | PENTA421 | PENTA421 | n/a | n/a | *ANY | PENTA421 | | 3/28/98 | 14:26:00 | GAS | PENTA |
| *ANY | S102D21M | DOMINO1 | n/a | n/a | *ANY | S102D21M | | 3/28/98 | 11:44:23 | GAS | PENTA |
| APCPROD | PENTA420 | PENTA420 | n/a | APCPROD | APCPROD | PENTA420 | | 7/31/98 | 12:05:33 | n/a | n/a |
| CLS | PENTA | PENTA401 | n/a | n/a | CLS | PENTA | | 7/22/98 | 9:49:59 | CLS | PENTA |
| CLS | PENTA401 | PENTA401 | n/a | n/a | CLS | PENTA401 | | 7/22/98 | 9:50:15 | CLS | PENTA |
| CLS | PENTA420 | PENTA420 | n/a | CLS | CLS | PENTA420 | | 7/22/98 | 9:50:36 | CLS | PENTA |
| QSECOFR | QSECOFR | PENTA420 | n/a | QSECOFR | QSECOFR | QSECOFR | | 2/07/98 | 10:09:27 | n/a | n/a |
| QSYS | QSYS | PENTA420 | n/a | QSYS | QSYS | QSYS | | 2/07/98 | 10:09:27 | n/a | n/a |
| QUMB | QUMB | PENTA420 | n/a | QUMB | QUMB | QUMB | | 2/07/98 | 10:12:19 | QLPINSTL | QLPIN |
| QUSER | QUSER | PENTA420 | n/a | QUSER | QUSER | QUSER | | 2/07/98 | 10:09:27 | n/a | n/a |
| SBN | PENTA420 | PENTA420 | n/a | SBN | SBN | PENTA420 | | 2/17/98 | 16:37:48 | QSECOFR | QSECO |
| TES | PENTA420 | PENTA420 | n/a | TES | TES | PENTA420 | | 8/17/00 | 16:26:07 | n/a | n/a |
| Y2KOEAPC | PENTA420 | PENTA420 | n/a | Y2KOEAPC | Y2KOEAPC | PENTA420 | | 6/16/98 | 6:47:40 | n/a | n/a |
| ===== | | | | | | | | | | | |
| = | | | | | | | | | | | |
| Number of entries: | | | 16 | * * * E N D O F R E P O R T * * * | | | | | | | |

Chapter 9

Option 7 System Setup and Defaults Menu

The System Auditing and Reporting Setup and Default Menu provides functions that enable you to tailor System Auditing and Reporting to your environment. Use this menu to setup your job submittal defaults, security for System Auditing and Reporting, and Security Journaling.

This menu is accessed by selecting Option 7 from the System Auditing and Reporting Menu.

```
PA17          PentaSafe Security Technologies, Inc ANYUSER    Date:  9/14/01
              System Setup and Defaults Menu      QPADEV000B Time:  9:22:44

Select one of the following:

 1 Job Submittal Defaults              18 Install Remote Svr Exit Programs
 2 Setup Security Journaling           19 Remove Remote Svr Exit Programs
 3 Stop Security Journaling            20 Cycle Remote Servers
 4 Work With Security Journaling        21 Remote Site Parameters
 5 Generate/Save/Clean-up Jnl Recvrs   22 Switch on/off Selection Page print
 9 Work With QAUDRN Recvr Attributes   23 Switch On/Off Qry Dfn Page Print
10 Work With Object Auditing           24 Augment Object Auditing File
11 Work With User Auditing             25 Switch Job Scheduler (IBM/ROBOT)
12 Work With Scheduled PSA/SAR Events  26 Start SQL/QRy Monitor
13 Work With Report Filters            27 End SQL/QRy Monitor
14 Change Sec Journal Receiver Range   28 Work With SQL/QRy Auditing
16 PSAudit Configuration Wizard        29 Maintain Audit Alert MSGQ
17 Remote Request Auditing (Ext Pnts)

Enter Option or Function/Type ==>

F1=Help      F3=Exit      F6=Messages  F9=Window    F10=Cmd Line
F12=Previous F13=Attention F14=Batch Jobs F18=Reports
```

Option 1 Job Submittal Defaults

This window allows you to setup the job submittal defaults for your environment.

| | |
|--------------------|---|
| OUTQ | The default output queue for all reports. Note - Ensure that the current library list contains the library in which the OUTQ exists. |
| JOBQ | The default job queue for all jobs submitted. Note - Ensure that the current library list contains the library in which the JOBQ exists. |
| Hold Option | The default option to hold a job from executing after being submitted. This is handy to use if you want to submit several jobs now, but release them later to actually run. |

Note

Due to the sensitive nature of some reports, NetIQ recommends the creation of a secure output queue to which only the Security Administrator or owner of the reports is authorized.

Option 2 Setup Security Journaling

Starts security journaling after which the system will immediately start logging information for use by the security reports.

The following occurs when you select this option:

- A journal receiver is created in QGPL by the name of ZAUDJR0000, if journal / QAUDJRN does not already exist in QSYS library.
- A journal is created in QSYS by the name of QAUDJRN, if it does not already exist.

- The system value QAUDCTL is changed to (*AUDLVL *OBJAUD).
- The system value QAUDLVL is changed to (*SAVRST *AUTFAIL *DELETE *SECURITY *PGMFAIL *OBJMGT).

Option 3 Stop Security Journaling

Stops security journaling. The following occurs when you select this option:

- System value QAUDCTL is changed to *NONE.
- The system value QAUDLVL is changed to *NONE. This will stop all security journaling on your system.

Option 4 Work with Security Journaling

Allows you to work with the system values for security journaling using the Change Security Auditing panel.

You can change the values for system values QAUDCTL and QAUDLVL from this panel.

QAUDCTL

Audit control: This system value contains the on and off switches for object and user level auditing. The system value activates auditing on the system that is selected by the Change Object Audit (CHGOBJAUD) and Change User Audit (CHGUSRAUD) commands and the QAUDLVL system value.

The journal QAUDJRN must exist in library QSYS in order to change this system value to a value other than *NONE. The journal QAUDJRN cannot be deleted or moved from the QSYS library until the system value is changed to *NONE.

A change to this system value takes effect immediately. The shipped value is *NONE. To turn auditing on, specify either *OBJAUD or *AUDLVL. If auditing is active, specify *NONE to turn auditing off.

Audit Control

One or more of the following values may be specified. If you specify *NONE, that must be the only specified value.

***NONE** - No auditing of objects (Change Objects Audit (CHGOBJAUD) command) or of user actions (CHGUSRAUD) command, AUDLVL keyword) is done on the system. In addition, no auditing controlled by the QAUDLVL system value is done.

***NOQTEMP** - Auditing of most objects in QTEMP is not done. You must specify *NOQTEMP with either *OBJAUD or *AUDLVL.

***OBJAUD** - Auditing of objects that have been selected for audit using the CHGOBJAUD command.

***AUDLVL** - Auditing changes controlled by the QAUDLVL system value and CHGUSRAUD command or AUDLVL.

QAUDLVL - Security auditing level. Controls the level of auditing on the system. The system audits functions that can affect security. A change to this system value takes effect immediately for all jobs running on the system. The shipped value is *NONE.

Auditing Options

Either specify *NONE, or any combination of the other values.

Either specify *NONE, or any combination of the other values.

***NONE** - No auditing occurs on the system.

***AUDLVL2** - Both QAUDLVL and QAUDLVL2 system values are used to determine the security actions to be audited.

Note

- If you want to use the QAUDLVL2 system value exclusively, set the QAUDLVL system value to *AUDLVL2 and add your auditing values to the QAUDLVL2 system value.
 - If you want to use both system values, you can set your values in the QAUDLVL system value along with the *AUDLVL2 value, then add any additional values to the QAUDLVL2 system value.
-

***ATNEVT** - Attention events are audited. Attention events are conditions that require further evaluation to determine the condition's security significance. For example, intrusion monitor events need to be examined to determine whether the condition is an intrusion or a false positive.

***AUTFAIL** - Authorization failures are audited. For example, the following authorization failures are audited:

- All access failures (sign-on, authorization, job submission)
- Incorrect password or user ID entered from a device (Low impact on system performance)

***CREATE** - Objects created into library QTEMP are not audited. The following object creates are audited:

- Newly-created objects
- Objects created to replace an existing object (Low impact on system performance)

***DELETE** - All deletions of external objects on the system are audited

- Objects deleted from library QTEMP are not audited (Low impact on system performance)

***JOBDTA** - The following actions by an audited user that affect a job are audited:

- Job start and stop data
- Hold, release, change, disconnect, end, end abnormal, PSR-attached to pre-start job entries (Medium impact on system performance)

***NETBAS** - Network base functions are audited. For example, the following functions are audited:

- IP rules actions
- Sockets connections
- APPN Directory search filter
- APPN end point filter

***NETCLU** - Cluster or cluster resource group operations are audited. For example, the following cluster operations are audited:

- Add, create, and delete
- Distribution
- End
- Fail over
- List information
- Removal
- Start
- Switch
- Update attributes

***NETCMN** - Networking and communications functions are audited. For example, the following functions are audited:

- Network base functions (See *NETBAS)
- Cluster or cluster resource group operations (See *NETCLU)
- Network failures (See *NETFAIL)
- Sockets functions (See *NETSCK)

Note

*NETCMN is composed of several values to allow you to better customize your auditing. If you specify all of the values, you will get the same auditing as if you specified *NETCMN.

***NETFAIL** - Network failures, such as Socket port not available, are audited.

***NETSCK** - Sockets tasks are audited. For example, the following tasks are audited:

- Accept
- Connect
- DHCP address assigned
- DHCP address not assigned
- Filtered mail
- Reject mail

***NOTAVL** - The user performing the command is not allowed to display the current auditing value. You cannot change the system value to not available (*NOTAVL).

***OBJMGT** - The following generic object tasks are audited:

- Moves of objects
- Renames of objects (Low impact on system performance)

***OFCSRV** - The following OfficeVision/400 tasks are audited:

- Changes to the system distribution directory
- Tasks involving electronic mail. (Medium impact on system performance)

***OPTICAL** - All optical functions are audited. For example, the following functions are audited:

- Add or remove optical cartridge
- Change the authorization list used to secure an optical volume
- Open optical file or directory
- Create or delete optical directory
- Change or retrieve optical directory attributes
- Copy, move, or rename optical file
- Copy optical directory
- Back up optical volume
- Initialize or rename optical volume
- Convert backup optical volume to a primary volume
- Save or release held optical file
- Absolute read of an optical volume

***PGMADP** - Adopting authority from program failures are audited:

(Low impact on system performance)

***PGMFAIL** - The following program failures are audited:

- Blocked instruction
- Validation value failure
- Domain violation (Low impact on system performance)

***PRTDTA** - The following printing functions are audited:

- Printing a spooled file
- Printing with parameter SPOOL (*NO) (High impact on system performance)

***SAVRST** - The following save and restore information is audited:

- When programs that adopt their owner's user profile are restored
- When job descriptions that contain user names are restored
- When ownership and authority data changes for restored objects
- When the authority for user profiles is restored
- When a system state program is restored
- When a system command is restored
- When an object is restored (Low impact on system performance)

***SECCFG** - Security configuration is audited. The following are some examples:

- Create, change, delete, and restore operations of user profiles
- Changes to programs (CHGPGM) that will now adopt the owner's profile
- Changes to system values, environment variables and network attributes
- Changes to subsystem routing
- When the QSECOFR password is reset to the shipped value from DST
- When the password for the service tools security officer user ID is requested to be defaulted.
- Changes to the auditing attribute of an object

***SECDIRSRV** - Changes or updates when doing directory service functions are audited. The following are some examples:

- Audit change
- Successful bind
- Authority change

- Password change
- Ownership change
- Successful unbind

***SECIPC** - Changes to interprocess communications are audited. The following are some examples:

- Ownership or authority of an IPC object changed
- Create, delete or get of an IPC object
- Shared memory attach

***SECNAS** - Network authentication service actions are audited. The following are some examples:

- Service ticket valid
- Service principals do not match
- Client principals do not match
- Ticket IP address mismatch
- Decryption of the ticket failed
- Decryption of the authenticator failed
- Realm is not within client and local realms
- Ticket is a replay attempt
- Ticket not yet valid
- Remote or local IP address mismatch
- Decrypt of KRB_AP_PRIV or KRB_AP_SAFE checksum error
- KRB_AP_PRIV or KRB_AP_SAFE - timestamp error, replay error, sequence order error
- GSS accept - expired credentials, checksum error, channel bindings
- GSS unwrap or GSS verify - expired context, decrypt/decode, checksum error, sequence error

***SECRUN** - Security run time functions are audited. The following are some examples:

- Changes to object ownership
- Changes to authorization list or object authority
- Changes to the primary group of an object

***SECCKD** - Socket descriptors are audited. The following are some examples:

- A socket descriptor was given to another job
- Receive descriptor
- Unable to use descriptor

***SECURITY** - All security-related functions are audited, including:

- Changes to object authority
- Create, change, delete and restore operations of user profiles
- Changes to object ownership
- Changes to programs (CHGPGM) that will now adopt the owners profile
- Changes to system values and network attributes
- Changes to subsystem routing
- When the QSECOFR password is reset to the shipped value by DST
- When the DST security officer password is requested to be defaulted
- Changes to the auditing attribute of an object (Low impact on system performance)

***SECVFY** - Use of verification functions are audited. The following are some examples:

- A target user profile was changed during a pass-through session
- A profile handle was generated
- All profile tokens were invalidated
- Maximum number of profile tokens has been generated
- A profile token has been generated

- All profile tokens for a user have been removed
- User profile authenticated
- An office user started or ended work on behalf of another user

***SECVLDL** - Changes to validation list objects are audited. The following are some examples:

- Add, change, remove of a validation list entry
- Find of a validation list entry
- Successful and unsuccessful verify of a validation list entry

***SERVICE** - The following commands are audited:

- Dump Object (DMPOBJ) and Dump System Object (DMPSYSOBJ)
- Start System Service Tools (STRSST): one entry is sent when the STRSST is used to enter the Service Tools
- Start Service Job (STRSRVJOB): the trace commands do not produce an audit record
- Start Copy Screen (STRCPYSCN)
- Start, End, Print, and Delete Communications Trace
- Trace Internal (TRCINT)
- Print Error Log (PRTERLOG)
- Print Internal Data (PRTINTDTA) (Low impact on system performance)

***SPLFDTA** - The following spooled file functions are audited:

- Create a spooled file
- Delete a spooled file
- Display a spooled file
- Copy a spooled file
- Get data from a spooled file (QSPGETSP)

- Hold a spooled file
- Release a spooled file
- Change spooled file attributes (CHGSPLFA command) (High impact on system performance)

***SYSMGT** - The following system management tasks by an audited user are audited:

- Hierarchical file system registration
- Changes for Operational Assistant functions
- Change to the system reply list
- Changes to the DRDA relational database directory
- Network file operations (Low impact on system performance)

Option 5 Generate/Save/Clean-up Jrnl Recvrs

As the Security Journal collects information, the journal receiver can become quite large over time. The clean-up should be done on a regular basis (monthly is recommended). This option will allow you to save the information to tape and remove the data from the system.

The process works as follows:

1. A new journal receiver must be generated and attached before the one currently attached can be saved completely.

CALL AACL35 - This will generate a new journal receiver.
2. You will be prompted to save the journal receivers to tape.
 - CALL AACL34 - This will save the journal receivers to tape.
 - Only receivers named ZAUDJR* in QGPL will be saved.

3. All unattached receivers will be removed from the system.
 - CALL AACL36 - This will clean-up the old journal receivers.
 - Only receivers named ZAUDJR* in QGPL library will be deleted.

Option 9 Work With QAUDJRN Recvr Attributes

This will display the journal which is currently attached to QAUDJRN.

Option 10 Work With Object Auditing

Use this option to specify the objects you want to audit. Some commands that should be audited are UPDDTA (Data file utility), CHGDTA (Data file utility), CRTCLPGM (Create a CL program), CRTRPGPGM (Create a RPG program), and CRTUSRPRF (Create user profile).

Option 11 Work with User Auditing

Use this option to select the users for whom you want to audit the commands they are using. After entering a User Profile here, you can run a report to list all the commands this user has executed. The Q* users should be audited. Any remote user should also be audited.

Option 12 Work with Scheduled PSA/SAR Events

Every report can be scheduled to run on a regular basis from the submittal window. This function will allow you to work with all those scheduled events. System Auditing and Reporting uses the iSeries job scheduler. If you need more documentation, please refer to your IBM manuals or call NetIQ technical support for more help. Events scheduled by the configuration wizard begin with the name XA*, while jobs scheduled by the submittal window begin with the name ZA*.

Two screens are available; press F12 to see the second screen.

Option 13 Work with Report Filters

From this feature, you can modify the DEFAULT queries used by the reports. These queries are used for all your reporting unless you define a different query for individual reports. These queries are also used to select and omit data for the Summary Reports. Use these DEFAULT queries to set up your corporate filter.

| | | | |
|---|------------|-------------|--|
| AARP50-01 | | 9/29/00 | |
| SGS | | 13:43:03 | |
| Work with Filters | | | |
| 2=Update 3=Copy 4=Delete 6=Change Alert/Desc | | | |
| Opt | Report | All Filters | |
| | ID | Filter Name | Description File Name |
| = | AAACCTLE | DEFAULT | Account Limits Exceeded QASYVLJE |
| - | AAADOPT | DEFAULT | Programs That Adopt Authority ADPSEC |
| - | AAAPPNEV | DEFAULT | APPN End Point Filter Violatio QASYNEJE |
| - | AAAPPNFV | DEFAULT | APPN Dir Search Filter Violati QASYNDJE |
| - | AAAUDCHG | DEFAULT | Object Auditing Attribute Chan QASYADJE |
| - | AAAUDSQL | DEFAULT | SQL Auditing AA0207F |
| - | AAAUTHCHG | DEFAULT | Restore Objects When Author. C QASYRAJE |
| - | AAAUTHFAIL | DEFAULT | All Authority Failures QASYAFJE |
| - | AAAUTHLISQ | DEFAULT | Authorization Lists (Excludes AUTLOBJ |
| - | AAAUTHLIST | DEFAULT | Authority Lists and Specific A AUTLUSER |
| - | AAAUTHUSER | DEFAULT | Restore Author. for User Profi QASYRUJE |
| - | AACHECKUP | TEST | TEST |
| - | AACHGACL | DEFAULT | Access Control List (ACL) Chan QASYVAJE |
| - | AACHGFILES | DEFAULT | Changed Files AALF30A |
| - | AACHGJOB0 | DEFAULT | Changes to the USER of a JOB0 QASYJDJE + |
| F3=Exit F6=Add New Filter F8=Limit View to DEFAULT F12=Return | | | |

For additional information, see “Working With Filters” on page 292.

Option 14 Change Sec Journal Receiver Range

Specifies a range of journal receivers against which the security report should run.

This option is intended for use when journal receivers have been previously saved, deleted, and then restored, when reports have to be run against the range of restored receivers. When the range of receivers should no longer be used to run the reports, blank out the “From” and “To” receiver names and press ENTER, then F3 to exit.

You can also specify the user saved Type 4 journal file name and library. This will setup the global setting for Security Reports (SAR Option 5), and enable you to use the system journal or the user saved Type 4 data to execute the reports.

Option 16 PSAudit Configuration Wizard

The Scheduling Wizard will quickly and easily schedule your auditing functions. The Wizard will walk you through the i5/OS configuration, scheduling of PSAudit reports, and data purges. The Wizard is shipped with a suggested schedule, but you can modify the suggested schedule to fit your requirements.

Accessing the Wizard

To access the Scheduling Wizard, type **WIZARD** and press ENTER on any Auditing Menu command line.

Using the Wizard

The first screen concerns the i5/OS Configuration.

ISIS

Change Security Auditing

3/09/00

AACL100

09:13:37

Type "1" to select values and press Enter

QAUDCTL

Auditing control

Auditing control

-

*NONE

1

*NOQTEMP (V3R2 and up)

1

*OBJAUD

1

*AUDLVL

QAUDLVL

Security auditing level

Auditing options

1

*NONE

1

*AUTFAIL

-

*NETCMN (V3R2)

-

*PGMADP

1

*SECURITY

-

*CREATE

1

*OPTICAL (V3R6)

-

*PGMFFAIL

-

*SERVICE

1

*DELETE

-

*OBJMGT

-

*PRTDTA

-

*SPLFDTA

-

*JOBDTA

-

*OFCSRV

1

*SAVRST

-

*SYSMGT

F3=Exit

F9=WRKSYSVAL (QAUD*)

F10=Set recommended values

F12=Cancel

When the Change Security Auditing screen is displayed, use F10 to set the Security Auditing System Values to the NetIQ recommended values. You may also select other desired auditing levels such as *NETCMN, *OFCSRV, *SYSMGT, and so on.

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After using F10 to update the system values, press F12 to enter the defaults for the PSAudit Configuration Wizard, then press F12 to proceed to the Scheduling Wizard.

```

                          Defaults for PSAudit Configuration Wizard

OUTQ . . . . . QPRINT
JOBQ . . . . . QBATCH
Job Scheduler. . . . *ROBOT      *IBM, *ROBOT

Enter=Save and Exit  F3=Exit F12=Cancel

```

```

AARP30                      PSAudit Configuration Wizard          09:33:18   3/09/00
                               System:  ISIS

Report Description           D=Daily   Day   Time   Job Name
                             W=Weekly  of    of
                             M=Monthly Week  Week
Purge Security Journal Receiver - - - - 0 AAPURGE
Load Object & Library Database - - - - 0 AAOBJLOAD
Load Information for Library Anal. - - - - 0 AALIBANAL
Load File Information Database - - - - 0 AAFILEINFO
Programs That Adopt Authority - - - - 0 AAADOPT
Load File, Object & Library Database - - - - 0 AALOAD
Reset Object Usage Counts - - - - 0 AARESET
Object Auditing Attribute Change - - - - 0 AAAUDCHG
All Authority Failures - - - - 0 AAAUTHFAIL
Obtaining Adopted Authority - - - - 0 AAOBADPA
Changes To Object Authority - - - - 0 AACHGOBJAU
Command Usage by Command - - - - 0 AACMDUSAGE +

F3=Exit  F9=Fold/Unfold  F10=Schedule Jobs and Exit  F11=Remove

```

For each job, specify the Frequency (Daily, Weekly, Monthly), the Day of the Week, and Time.

Use F9 to get the extended display where you can override the run-time defaults for each scheduled report.

| | | | | | |
|--|---------|------------------------------|----------|------------------|--|
| AARP30 | | PSAudit Configuration Wizard | | 09:33:18 3/09/00 | |
| | | | | System: ISIS | |
| | | D=Daily | Day | | |
| | | W=Weekly | of | | |
| | | M=Monthly | Week | | |
| <u>Report Description</u> | | <u>Time</u> | | <u>Job Name</u> | |
| Purge Security Journal Receiver | - | 0 | | AAPURGE | |
| | | | | | |
| Filter name: | DEFAULT | Reload: | N (Y/N) | | |
| File/Lib for data: | *NONE | Option: | *REPLACE | *ADD | |
| From / To Date: | | | | *REPLACE | |
| Load Object & Library Database | - | 0 | | AAOBJLOAD | |
| *ALL/Gen*/*USRLIBL/Lib | *ALL | | | | |
| | | | | | |
| Filter name: | DEFAULT | Reload: | N (Y/N) | | |
| File/Lib for data: | *NONE | Option: | *REPLACE | *ADD | |
| From / To Date: | | | | *REPLA + | |
| | | | | | |
| F3=Exit F9=Fold/Unfold F10=Schedule Jobs and Exit F11=Remove | | | | | |

Press F10 to schedule the jobs and Exit.

The list of scheduled jobs can be also be accessed using Auditing Main Menu Option 7, then Option 12. The list can be printed using the following command:

WRKJOBSCDE JOB(XA*) OUTPUT(*PRINT) PRTFMT(*BASIC)

One of the jobs scheduled by the wizard is XAPURGE, titled “Purge Security Journal Receiver”. THIS JOB WILL DELETE ALL QAUDJRN RECEIVERS CURRENTLY ON THE SYSTEM EXCEPT THE MOST RECENT ONE AND THE NEW ONE IT GENERATES. If this is unacceptable, blank out the three columns next to job XAPURGE prior to using F10. Next, manually schedule the purge job using Option 5 from the System Setup and Defaults Menu, where the options for saving and deleting old receivers are available. If the job has already been scheduled, it can be removed using Option 12 from the System Setup and Defaults Menu or command WRKJOBSCDE and deleting the entry for job XAPURGE.

Option 17 Remote Request Auditing (Ext Pnts)

This option can be used to start and stop auditing of various exit points which generate entries in the security auditing journal. Exit programs can also be added or removed from the exit points using this panel.

The Work with Exit Points display shows you a list of supported exit points and related information. Security and/or auditing of remote requests can be changed for each exit point.

If you see “More” in the bottom right corner of your display, there is more information to view. Press the Page Down (or Roll Up) key to see additional pages. Press the Page Up (or Roll Down) key to see previous pages. If you see “Bottom” instead of “More”, you are on the last page of the list.

```

AARPEXT                                Work with Exit Points                                1/12/01

Type options, press Enter.
  2=Add ExitPgm   4=Remove ExitPgm   5=Display   7=Start Audit   9=End Audit

Opt Aud ExtPgm Exit Point      Format      Description
      in Use
-   N   N       DDMACC          *NA          DDM request access
-   N   N       QIBM_QHQ_DTAQ   DTAQ0100     Data Queue Server, original
-   N   N       QIBM_QMF_MESSAGE MESS0100     Message Server, original
-   N   N       QIBM_QNPS_ENTRY ENTR0100     Network Print Server, optimize
-   N   N       QIBM_QNPS_SPLF  SPLF0100     Network Print Server, optimize
-   N   N       QIBM_QPWF_FILE_SERV PWFS0100     File Server, optimized
-   N   N       QIBM_QRQ_SQL     RSQLO100     Remote SQL Server, original
-   N   N       QIBM_QTF_TRANSFER TRAN0100     File Transfer Function, origin
-   N   N       QIBM_QTG_DEVINIT INIT0100     Telnet -Logon
-   N   N       QIBM_QTMF_CLIENT_REQ ULRQ0100     FTP Client Request Validation
-   N   N       QIBM_QTMF_SERVER_REQ ULRQ0100     FTP Server Request Validation
-   N   N       QIBM_QTMF_SUR_LOGON TCPL0100     FTP Server Logon
-   N   N       QIBM_QTMF_SUR_LOGON TCPL0200     FTP Server Logon
-   N   N       QIBM_QTMX_SERVER_REQ ULRQ0100     REXEC Server Request Validation
                                           More...

F3=Exit  F5=Refresh  F9=More Info.  F12=Cancel  F21=Print list  F22=Secure

```

Options - Type the desired option and press ENTER to process your request. The column to the right of the Opt column indicates if the Exit Point is being audited. To control the writing of Audit Records for Exit Points, see PSAudit, System Auditing and Reporting, System Setup and Defaults, Remote Request Auditing.

2=Add ExitPgm - Use this option to selectively specify an exit program for the selected exit point. This option allows you to specify your own exit program.

4=Remove ExitPgm - Use this option to remove NetIQ supplied exit programs for the selected exit point. It may be necessary to restart the *FILE and *DATABASE servers after adding or removing exit programs.

5=Display - Use this option to display complete information about the selected exit point.

7=Start Audit - Use this option to audit exit points. When you do, all remote requests handled by the exit program specified for the exit point will be logged to the security journals.

9=End Audit - Use this option to disable Auditing for remote requests handled by the exit program specified for the exit point.

AUD - Indicates the status of Auditing ("Y" or "N").

ExtPgm in Use - Indicates whether an RRM exit program is specified for the Exit Point.

Exit Point - Exit Point represents a point in the corresponding server program where an exit program can be specified to perform custom functions such as checking requests against security criteria or monitoring the requests. This screen shows all the supported exit points.

Format - This is a specific format for the exit point where exit program is specified. An exit point may have one or more formats to handle requests differently.

Description - Shows partial description of the exit point. To see the full description use Option 5=Display.

Server - Use F9 (More Info.) to display the Server Id.

Exit Program - Use F9 (More Info.) to display the name of the Exit Program attached to the Exit Point.

Function Keys

F1=Help - Provides help for using the display. Place the cursor at desired location on the screen and press F1=Help to activate the help facility.

F3=Exit - Ends the current task and returns to the display from which the task was started. Any information not sent to the system is lost.

F5=Refresh - Shows the list again with the most recent information and removes any options entered.

F9=More Info - Expands the subfile records to show additional information, such as the Server and Exit Program.

F12=Cancel - Discards any information not sent to the system and returns to the previous display.

F21=Print List - Prints a listing of all the exit points and related information.

F22=Secure - Lets you toggle between PSAudit and PSSecure modes.

Enter - Processes requested options (if any). If no options are selected, program is ended.

Help - Provides help for using the display. Place the cursor at desired location on the screen and press Help key to activate the help facility.

Page Down (Roll Up) - Shows additional pages of information in forward direction.

Page Up (Roll Down) - Shows previous pages of information in reverse direction.

Print - Prints the information currently displayed on the screen to an attached printer.

Option 18 Work with Remote Svr Exit Programs

This option will install all the exit programs to audit remote requests. No prompt is supplied for this option.

The network attributes will be changed for parameters DDMACC and PCSACC and certain exit points in the Registration facility will be assigned exit programs.

As part of the installation, the network attributes will be printed for reference. If your system already specifies an exit program for an exit point used by the Remote Request Manager, then the Registration Information will be printed and the spool file will remain on hold. The user data for the held QSYSPRT spooled file is 'EXIT_POINT'.

This installation process also creates journal QAUDJRN in library QSYS and associated receiver in library QGPL if they don't exist. The *FILE and *DATABASE host servers are ended and restarted.

| EXIT POINT INFORMATION | | | | |
|------------------------|----------|------------------------------------|--------------|-----------------|
| Exit Point | Format | Description | Exit Program | JrnEnt Type* |
| QIBM_QHQ_DTAQ | DTAQ0100 | Original Data Queue Server | AACLQHQ | QQ |
| QIBM_QLZP_LICENSE | LICM0100 | Original License Mgmt Server | AACLQLZP | LS |
| QIBM_QMF_MESSAGE | MESS0100 | Original Message Server | AACLQMF | MS |
| QIBM_QNFS_ENTRY | ENTR0100 | Network Print Server - entry | AACLQNP | NP |
| QIBM_QNFS_SPLF | SPLF0100 | Network Print Server - spool file | AACLQNS | NS |
| QIBM_QPWFS_FILE_SERV | PWFS0100 | File Server | AACLPWFS | PF |
| QIBM_QRQ_SQL | RSQL0100 | Original Remote SQL Server | AACLQRQ | QR |
| QIBM_QTF_TRANSFER | TRAN0100 | Original File Transfer Function | AACLQTF | TF |
| QIBM_QTMF_CLIENT_REQ | VLRQ0100 | FTP Client Request Validation | AACLFTPCLT | FC |
| QIBM_QTMF_SERVER_REQ | VLRQ0100 | FTP Server Request Validation | AACLFTPSVR | FS |
| QIBM_QTMF_SVR_LOGON | TCPL0100 | FTP Server Logon | AACLFTPLG | FL |
| QIBM_QVP_PRINTERS | PRNT0100 | Original Virtual Print Server | AACLQVP | PV |
| QIBM_QZDA_INIT | ZDAI0100 | Database Server - entry | AACLZDAINT | DI |
| QIBM_QZDA_NDB1 | ZDAD0100 | Database Server - data base access | AACLZDAND1 | DN |
| QIBM_QZDA_NDB1 | ZDAD0200 | Database Server - data base access | AACLZDAND2 | DN |
| QIBM_QZDA_ROI1 | ZDAR0100 | Database Server - object informatn | AACLZDARO1 | DO |
| QIBM_QZDA_ROI1 | ZDAR0200 | Database Server - object informatn | AACLZDARO2 | DK |
| QIBM_QZDA_SQL1 | ZDAQ0100 | Database Server - SQL access | AACLZDASQL | DS |
| QIBM_QZHQ_DATA_QUEUE | ZHQ00100 | Data Queue Server | AACLZHQ | ZQ |
| QIBM_QZRC_RMT | CZRC0100 | Remote Command/Program Call | AACLZRC | RC |
| QIBM_QZSC_LM | ZSCL0100 | Central Server - license mgmt | AACLNTLM | LM |
| QIBM_QZSC_NLS | ZSCN0100 | Central Server - conversion map | AACL CNTCV | CV |
| QIBM_QZSC_SM | ZSCS0100 | Central Server - client mgmt | AACL CNTCM | CM |
| QIBM_QZSO_SIGNONSRV | ZSOY0100 | TCP Signon Server | AACLQTC | TC |
| DDMACC | n/a | DDM request access | AACLDDM** | DD |

* The Journal Entry Type is written using the SNDJRNE command, which assigns it a Journal Code of 'U'.

** Program AACLDDM is specified in the Network Attributes (CHGNETA).

Option 19 Remove Remote Svr Exit Programs

Removes the NetIQ Exit Programs used for auditing and/or control of Remote Requests from the Registration Facility and Network Attributes. The original values for Network Attributes DDMACC and PCSACC are restored.

Option 20 Cycle Remote Servers

Ends the *FILE and *DATABASE host servers (ENDHOSTSVR) and starts them again (STRHOSTSVR) so the servers will recognize the adding or removing of exit programs, which effect exit point QIBM_QPWFS_FILE_SERV and those whose name begins with "QIBM_QZDA_".

Option 21 Remote Site Parameters

Output data files and spooled files created as a result of running a menu option that can be directed to a central iSeries. Use this option to specify the remote address. The files sent to the remote site can then be received using the WRKNETF or RCVNETF commands. The file to be sent must be specified in the "Output file" and "Library" prompt fields in the Submittal Window, or in the OFILE and OLIB parameters of the STRAAAPI command.

Option 22 Switch on/off Selection Page Print

Alternates between printing and not printing a page showing the report filter's selection criteria.

Option 23 Switch on/off Qry Dfn Page Print

Specifies whether to print the query for each query report. The query definition contains important information, such as the System Name on which the query was produced.

Option 24 Augment Object Auditing File

Submits a job that adds records to the Object Auditing file (AAAPF022) for libraries that were excluded through Option 1 - Load File, Obj. and Library Database.

This file is used by Option 10 (Work with Object Auditing) and facilitates the administration of objects being audited.

Note

No prompt is available for this option.

Option 25 Switch Job Scheduler (IBM/ROBOT)

This option gives a user the opportunity to choose either Help System's ROBOT scheduler or IBM's scheduler for scheduling the jobs. Prior to scheduling using F7 in any of reports, the user has to switch *ON either one of the Job scheduler.

| | | | |
|------|---------------------------------|------------|----------------|
| PA17 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | System Setup and Defaults Menu | QPADEV000Q | Time: 17:02:20 |

Select one of the following:

| | |
|---------------------------------------|--|
| 1 Job Submittal Defaults | 18 Install All Exit Programs |
| 2 Setup Security Journaling | 19 Remove All Exit Programs |
| 3 Stop Security Journaling | 20 Restart *FILE & *DATABASE servers |
| 4 Work With Security Journaling | 21 Remote Site Parameters |
| 5 Generate/Save/Clean-up Jrnl Recvrs | 22 Switch on/off Selection Page print |
| 9 Work With QAUDJRN Recvr Attributes | 23 Switch On/Off Qry Dfn Page Print |
| 10 Work With Object Auditing | 24 L ***** |
| 11 Work With User Auditing | 25 S * JOB SCHEDULER * |
| 12 Work With Scheduled PSA/SAR Events | 26 S * * |
| 13 Work With Report Filters | 27 E * Currently using: ROBOT * |
| 14 Change Sec Journal Receiver Range | 28 W * * |
| 16 PSAudit Configuration Wizard | * Press ENTER to use IBM * |
| 17 Remote Request Auditing (Ext Pnts) | * or F3 to cancel. * |
| | * * |
| | * * |
| | * F3=Exit * |

Enter Option or Function/Type ==> 25

| | | | |
|--------------|---------------|----------------|-------------|
| F1=Help | F3=Exit | F6=Messages | ***** |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |

ROBOTLIB should be added in the library list if Robot scheduler is chosen.

If IBM is chosen a screen with ADDJOBSCDE appears for scheduling else if ROBOT is chosen a screen with RBTBCHUPD (Robot Batch Update) appears.

Option 26 Start SQL/QRY Monitor

This option starts subsystem ZPSAMON, which monitors the usage of each of the SQL and QRY commands selected for auditing. Be sure to configure commands to turn auditing on or off in Option 28 Work with SQL/QRY Auditing. Be aware that Option 26 does not capture embedded SQL/QRY statements.

Caution

While the SQL monitor is active, the PSAUDIT/AA0204F file and the PSAUDIT/AASAD01 data area are locked. Unless you use the save while active parameters in your backup jobs these objects will not be saved while the SQL monitor is active.

Option 27 End SQL/QRY Monitor

This option ends subsystem ZPSAMON. Object auditing on each of the selected SQL and QRY commands continues, but SQL statements are not captured.

Option 28 Work with SQL/QRY Auditing

The Work with SQL/Query Auditing Commands screen is used to define which SQL related commands will be audited, and if command usage alerts are sent to an assigned message queue. Each command's associated CPP is used to determine whether the command is available for auditing through SAR. Valid CPPs are as follows:

- QQQOPNQF
- QQUDA
- QSQSCHEM
- QQMMAIN
- QQXCLSTP
- QQXCLSTQ
- QSQIMAIN

Therefore, any command in any library can be audited through SAR, as long as the command's associated CPP is included in the list above.

All SQL/Query Audit monitor jobs are run in the ZPSAMON subsystem, therefore to use the SQL/Query Audit feature the following command must be added to your IPL startup job:

```
PSAUDIT/PSASQLMON ACTION(*START)
```

Note

All query related commands should be registered within the Work with SQL Query Audit screen. Setting audit either on or off for all query audit related commands will greatly enhance the accuracy of this feature.

The audit setting controls capturing command usage information does not require the SQL monitor to be running; however, the SQL/QRY Monitor must be running to gather query details, such as SQL statements.

Before using SQL/Query Auditing ensure that security journaling is configured and enabled by accessing the System Setup and Defaults Menu (Option 7) from the System Auditing and Reporting Menu, and selecting option 2 (Setup Security Journaling).

For information about running the SQL/QRy Audit Report, see “Option 9 SQL/QRy Audit Report” on page 125.

The Work with SQL/Query Auditing Commands screen is displayed by executing the following option string starting at the PSAudit Main Menu:

Opt 1 (System Auditing and Reporting)

» 7 (System Setup and Defaults Menu)

» 28 (Work With SQL/QRy Auditing)

SAR0515T

Work with SQL/Query Auditing

12/06/2002 09:47:30

Monitor: *INACTIVE

Type Options, press Enter

Position To: _____

2=Start Audit 3=End Audit 4=Remove 5=View 8=Start Alert 9=End Alert

| Opt | Command | Cmd Lib | CPP | CPP Lib | Audit | Alert | Description |
|------------|-----------|------------|----------|------------|-------|------------|-------------------|
| ___ | OPNQRYF | QSYS38 | QQQOPNQF | QSYS | *NO | *NO | Open Query File |
| ___ | OPNQRYF04 | CLP | QQQOPNQF | QSYS | *NO | *NO | Open Query File |
| ___ | OPNQRYF05 | CLP | QQQOPNQF | QSYS | *NO | *NO | Open Query File |
| ___ | OPNQRYF06 | CLP | QQQOPNQF | QSYS | *NO | *NO | Open Query File |
| ___ | OPNQRYF07 | CLP | QQQOPNQF | QSYS | *NO | *NO | Open Query File |
| ___ | OPNQRYF08 | CLP | QQQOPNQF | QSYS | *NO | *NO | Open Query File |
| ___ | OPNQRYF09 | CLP | QQQOPNQF | QSYS | *NO | *NO | Open Query File |
| ___ | RUNQRY | ARP | QQUDA | QSYS | *NO | *NO | Run Query |
| ___ | RUNSQLSTM | ARP | QSQSCHEM | QSQL | *NO | *NO | Run SQL Statement |
| ___ | RUNSQLSTM | QSQL | QSQSCHEM | QSQL | *NO | *NO | Run SQL Statement |
| ___ | SQ | CLS | QSQIMAIN | QSQL | *YES | *YES | Start SQL Interac |
| More... | | | | | | | |
| F1=Help | | F3=Exit | | F5=Refresh | | F7=Load | |
| F12=Cancel | | F13=Repeat | | F14=Sort | | F17=Top | |
| | | | | | | F18=Bottom | |

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This screen includes the following selection option, command, and function key information:

Selection Option Information

2=Start Audit: Starts auditing the SQL/Query related command. When the command is set to be audited, *YES displays in the corresponding **Audit** column.

3=End Audit: Ends the auditing of the SQL/Query related command. When the command is not set to be audited, *NO displays in the corresponding **Audit** column.

4=Remove: Accesses the Remove SQL/Query Auditing screen, where you confirm the removal of SQL/Query related commands from SQL/Query Auditing. When removed, auditing and alerts will be stopped.

5=View: Accesses the Display SQL/Query Monitoring screen, which displays the details for a selected SQL/Query related command that is audited.

8=Enable Alerts: Sends a command usage alert message for the specified SQL/Query related command to PSDetect, or a user-defined message queue. When the alert function is enabled, *YES displays in the corresponding **Alert** column.

Note

Command usage alerts can be sent to user-defined message queues using the Audit Message Queue Name Maintenance screen (Option 29) from the SAR System Setup and Defaults Menu.

Only the Alert column must be set to *YES to send alerts.

9=Disable Alerts: Command usage alert messages are not sent for the SQL/Query related command. When the alert function is disabled, *NO displays in the corresponding **Alert** column.

Command Information

Monitor: Displays whether the SQL/Query Monitor is active or inactive. If the SQL/Query Monitor is inactive, the transactions are not audited for the defined SQL related commands. To start the SQL/Query Monitor, access the Start SQL/QRY Monitor screen (Option 26) from the SAR System Setup and Defaults Menu. To stop the SQL/Query Monitor, access the End SQL/QRY Monitor screen (Option 27) from the SAR System Setup and Defaults Menu.

Note

Monitor job PSASQLMON is required and runs in the ZPSAMON subsystem.

Position to: Locates the desired record and positions it at the top of the column being sorted. To locate a record, place the cursor in the field above the column to be sorted, and type the name or name pattern of the record in the **Position To** field, then press **ENTER**. The record is displayed at the top of the column, and the other records are listed below in either ascending or descending order.

subset fields: Using the input field above each individual column, you can select a subset of the list below. For more information, see “Using Subset Fields” on page 238.

Opt: To perform a selection option, type the number of the option in this field and press **ENTER**.

Command: Displays the name of the SQL/Query related command.

Note

To monitor batch queries executed through STRQM, you must monitor the STRQMQRy command.

Cmd Lib: Displays the library where the specified command is located.

CPP: Displays the command processing program associated with the specified command.

CPP Lib: Displays the library where the CPP is located.

Audit: Displays whether or not the command is audited.

Alert: Displays whether or not a usage alert is sent to the assigned monitor.

Description: Displays the first 18 characters of the description for the specified command. To view the entire description press F5 (View).

Function Key Information

F1=Help: Displays a help message for the field where the cursor is positioned. If the cursor is not positioned in a specific field, Help is displayed for the entire screen.

F3=Exit: Exits the Work with SQL/QRY Auditing Commands screen and re-displays the System Setup and Defaults Menu.

F5=Refresh: Re-displays the screen with current results.

F6=Add: Accesses the Add SQL/Query Monitoring screen, which allows you to add a single SQL/Query related command to be audited. Valid SQL/Query related commands have one of the following CPPs, shown with sample commands:

- QQQOPNQF (OPNQRYF)
- QQUDA (RUNQRY)
- QSQSCHEM (RUNSQLSTM)
- QQMMAIN (STRQM)
- QQQXCLSTP (STRQMPC - IBM supplied VCP present)
- QQQXCLSTQ (STRQMQR - IBM supplied VCP present)
- QSQIMAIN (STRSQL)

F7=Load: Accesses the SQL/QRY Audit Load (PSSQALOD) screen, which allows you to add SQL/Query related commands to be audited based on the specified library. The libraries specified from this screen are scanned for commands with one of the seven SQL/Query related CPPs. These commands are then added to the Work with SQL/Query Auditing screen.

F12=Cancel: Re-displays the System Setup and Defaults Menu.

F13=Repeat: Lets you repeat a previously entered action on all subsequent records.

F14=Sort: Lets you determine which column is used to control the sequence of displayed records. To use this function, place the cursor in the column you want to sort, and press F14 (Sort).

F17=Top: Re-displays the list being sorted so that the first record is shown at the top of the list.

F18=Bottom: Re-displays the list being sorted so that the last record is shown at the bottom of the list.

Using Subset Fields

Subset fields are identified by a line above a column heading. These fields let you select a subset of entries containing information that matches the value specified. Information is selected by typing a subset value in this field that matches other values in the column or by typing a value that includes matching characters and the special characters asterisk (*), underscore (_), or both, and then pressing ENTER.

An asterisk represents zero, one, or multiple characters at the beginning or end of a value. An underscore represents one character only, and can be placed anywhere within a value.

When searching for values that have a leading asterisk, you must include a leading asterisk in the search criteria.

Option 29 Maintain SQL Monitor MSGQ

This option lets you specify the Message Queue and Library names used to audit the message queue. You can create a new message queue by typing the name in the field provided and then pressing ENTER. Specify **Y** (YES) to create the new message queue.

| | | | |
|---------|--------------------------------------|---------|-----------|
| AA0200R | Audit Message Queue Name Maintenance | 9:34:48 | 9/14/2001 |
| ISIS | PentaSafe Security Technologies, Inc | | Edit |

Type choices, press Enter.

| | | |
|------------------------------|---------|----------------------|
| Message Queue Name | PSAUDIT | Name, *NONE |
| Library Name | PSAUDIT | Name, *LIBL, *CURLIB |

F3=Exit F5=Refresh F12=Previous

Chapter 10

Option 8 User Profile Reports Menu

| | | | |
|------|---------------------------------|------------|----------------|
| PA18 | PentaSafe Security Technologies | CAS | Date: 6/06/00 |
| | User Profile Reports Menu | QPADEV000Q | Time: 17:12:22 |

Select one of the following:

| | |
|--------------------------------------|---------------------------------------|
| 1 Group Profiles | 14 Profiles Initial Menu Authority |
| 2 Profile Parameter Analysis | 15 Profiles Attention Key Pgms |
| 3 Profile Pwd Expiration Intvl *NE 0 | 16 Attention Key Pgms That Adopt Auth |
| 4 Profile Authority Information | 17 Profiles by Creation Date |
| 5 Profile Environment Values | 18 Group Profiles w/ any Special Auth |
| 6 Profiles w/Lint Capabilities = *NO | 19 Group Profiles w/ ALL, SEC, or SRV |
| 7 Profiles w/*SECADM,*SECDFR,*ALLOBJ | 20 User Profile Reports Menu 2 |
| 8 Profiles that are *DISABLED | |
| 9 Profiles with Expired Passwords | |
| 10 Profiles by Initial Program/Menu | |
| 11 Profiles Not Signed On in X Days | |
| 12 Q* Profiles Last Signon Date/Time | |
| 13 Profiles Initial Pgm Authority | |

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 Group Profiles

If group profiles are being used primarily to control security, is each user profile assigned to the appropriate group profile?

On this report, which is sorted by Group Profile, watch for group profiles that have passwords (“*NO” under the “Password *NONE” column) and special authorities such as *ALLOBJ, *AUDIT, *SECADM, *SERVICE, and *SPLCTL. Also determine which users have a password expiration interval different than the system value and whether it’s justified.

Run this report early each morning and if you notice that certain profiles often have unsuccessful sign-on attempts (under column “Sign-ons Not Valid”), you might suspect that you have a problem with someone trying to break in, but stopping just before the system takes action, as per system values QMAXSIGN and QMAXSGNACN.

| | | | | | | | | | | | | | | | | |
|------------------------------------|------------|--------|--------------|-----------|-------|----------|--------|--------|--|-----|------|------------------------------------|------|---------|---------|------|
| 02/13/98 15:31:15 | | AAQYUA | | | | | | | | | | Group Profiles and Their User Prof | | | | |
| Group | User | Grp | Owner of | Group | Pwd = | | Prev | Last | | Pwd | Pwd | Invalid | Lmt | Lmt | Dev | Prof |
| Profile | Profile | Prf? | Crt'd Object | Authority | *NONE | Status | SignOn | PwdChg | | Exp | Exp? | SgnOns | Cpb? | Session | User | Pr |
| ----- | | | | | | | | | | | | | | | | |
| *NONE | EH1 | *NO | *USRPRF | *NONE | *NO | *ENABLED | 980113 | 980113 | | 0 | *NO | 0 | *NO | *SYSVAL | | |
| | EH2 | *NO | *USRPRF | *NONE | *NO | *ENABLED | 980113 | 980113 | | 0 | *NO | 0 | *NO | *SYSVAL | Emerald | |
| | ELI | *NO | *USRPRF | *NONE | *NO | *ENABLED | 980205 | 980205 | | 0 | *NO | 0 | *NO | *SYSVAL | | |
| | ELTRANEXP1 | *NO | *USRPRF | *NONE | *NO | *ENABLED | | 940831 | | 0 | *NO | 0 | *NO | *SYSVAL | | |
| Total Profile Count for this Group | | | | | | | | | | | | | | | | |
| COUNT 4 | 4 | | | | | | | | | | | | | | | |
| QPGRM | ECSUSER | *NO | *GRPPRF | *NONE | *NO | *ENABLED | | 960619 | | 0 | *NO | 0 | *NO | *SYSVAL | Electro | |
| | EIM | *NO | *GRPPRF | *NONE | *NO | *ENABLED | | 970605 | | 0 | *NO | 0 | *NO | *SYSVAL | Eddie M | |
| | ERH | *NO | *USRPRF | *NONE | *NO | *ENABLED | 970207 | 961007 | | 0 | *NO | 0 | *NO | *SYSVAL | Ellen R | |
| | EXH | *NO | *GRPPRF | *NONE | *NO | *ENABLED | 980213 | 980210 | | 0 | *NO | 0 | *NO | *SYSVAL | Eddie H | |
| Total Profile Count for this Group | | | | | | | | | | | | | | | | |
| COUNT 4 | 4 | | | | | | | | | | | | | | | |
| QSECOFR | EHD | *NO | *GRPPRF | *NONE | *NO | *ENABLED | 980213 | 980206 | | 0 | *NO | 0 | *NO | *SYSVAL | Eli Dur | |
| Total Profile Count for this Group | | | | | | | | | | | | | | | | |
| COUNT 1 | 1 | | | | | | | | | | | | | | | |

Option 2 Profile Parameter Analysis

In this report, look for exceptions to your standards and conventions. Also look at the values of the various security-related parameters, such as “Password Expiration Interval”, “Password of *NONE”, “Limited Capabilities”, “Limit Device Sessions”, “Attention Program”, and “Display Signon Information”. Pay particular attention to the IBM-supplied profiles, which should have “*YES” for “Password of *NONE”.

| | | | | | | | | | | | | | |
|-------------------|---------------|---|-------------|---------|-----------|----------|-----------------|--------------------|-----------------|-----------------|--------------|------------------|-------------|
| 02/13/98 19:18:51 | | User Profile Parameter Analysis AAQYUB | | | | | | | | | | | |
| User Profile | Group Profile | Prev SignOn | Last PwdChg | Pwd Exp | Pwd =NONE | Lmt Cpb? | Lmt Dev Session | Dev SgnOn Informtn | Initial Program | Inl Pgm Library | Initial Menu | Inl Menu Library | Atten Progr |
| ----- | | | | | | | | | | | | | |
| ECSUSER | QPGMR | | 960619 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | *NONE | | REMOTE | JBAC#P1 | QCMD |
| EHD | QSECOFR | 980213 | 980206 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | PGMMNUC | *LIBL | MAIN | QSYS | QUSCM |
| EH1 | *NONE | 980113 | 980113 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | *NONE | | MAIN | *LIBL | QEZMA |
| EH2 | *NONE | 980113 | 980113 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | *NONE | | MAIN | *LIBL | QEZMA |
| EIM | QPGMR | | 970605 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | PENTAINIT | *LIBL | PENTA01 | PENTA | *NONE |
| ELI | *NONE | 980205 | 980205 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | *NONE | | MAIN | *LIBL | QEZMA |
| ELTRANEXP1 | *NONE | | 940831 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | *NONE | | MAIN | *LIBL | QEZMA |
| ERH | QPGMR | 970207 | 961007 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | PENTAINIT | *LIBL | MAIN | QSYS | ATTEN |
| EXH | QPGMR | 980213 | 980210 | 0 | *NO | *NO | *SYSVAL | *SYSVAL | PENTAINIT | *LIBL | MAIN | QSYS | QEZMA |
| | | | | | | | | | | | | | |
| FINAL TOTALS | | | | | | | | | | | | | |
| COUNT 9 | | | | | | | | | | | | | |

Option 3 Profile Pwd Expiration Intvl *NE 0

In this report which includes only users that have passwords assigned, look for exceptions to standards and company policy. Also, do not allow users to sign on with the IBM-supplied profiles QSYSOPR, QPGMR, QUSER, QSRV, QSRVBAS, and others, depending on installed software.

User profiles that have no password assigned (Password of *NONE = *YES) are omitted from the report.

A value of “1-” under the column labeled “PWD EXP INT” means “*NOMAX”, meaning the password never expires. Watch for Password Expiration Interval values different from the system value QPWDEXPITV and values greater than zero.

| | | | | | | | | | | | | | | |
|--|-----|------|---------|----------|-------|----------|--------|--------|----------------|----------------|-----------|-------------|-------------------|---------|
| User Profiles with Password Expiration Interval Not = 0 Report | | | | | | | | | | | | | | |
| AACLS0UC | | | | | | | | | | | | | | |
| QUERY NAME AAQYUC | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | | |
| AACUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | | | | | |
| DATE 07/13/99 | | | | | | | | | | | | | | |
| TIME 10:33:16 | | | | | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | | | | | |
| 07/13/99 10:33:16 User Profiles with Password Expiration Interval Not = 0 Page 1 | | | | | | | | | | | | | | |
| AACLS0UC | | | | | | | | | | | | | | |
| User | Pwd | Grp | Group | Owner of | Group | Pwd = | Prev | Last | | | | | | |
| Profile | Exp | Prf? | Profile | Crt'd | Objct | Auth | Status | *NONE | SignOn | PwdChg | Special | Authorities | User | Profile |
| ----- | IEV | ---- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| AKP | 1- | *NO | QSECOFR | *USRPRF | *NONE | *ENABLED | *NO | 990623 | *ALLOBJ*AUDIT* | IOSYSCFG* | JOBCTL* | SAVSYS | AaronP. | |
| GKH | 1- | *NO | QSECOFR | *USRPRF | *NONE | *ENABLED | *NO | 990623 | 990623 | *ALLOBJ*AUDIT* | IOSYSCFG* | JOBCTL* | SAVSYS | Garveh. |
| JDBPGMR | 1- | *NO | QPGMR | *USRPRF | *ALL | *ENABLED | *NO | 990514 | 990514 | *JOBCTL*SPLCTL | | JDB | PROGRAMMERPROFILE | |
| KVG | 1- | *NO | QSECOFR | *USRPRF | *NONE | *ENABLED | *NO | 990709 | 990528 | *ALLOBJ*AUDIT* | IOSYSCFG* | JOBCTL* | SAVSYS | Kurt G. |
| QTMPLPD | 1- | *NO | *NONE | *USRPRF | *NONE | *ENABLED | *YES | 990317 | *NONE | ALLOW | REMOTE | LPR | REQUESTERS | |
| QMTWMSG | 1- | *NO | *NONE | *USRPRF | *NONE | *ENABLED | *YES | 990317 | *NONE | 5250 | HTML | WORKSTATION | GATEWAY | PROFILE |
| FINAL TOTALS | | | | | | | | | | | | | | |
| COUNT 6 | | | | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | | | | | |

Option 4 Profile Authority Information

Use this informational report to review the authority-related parameter values of each user profile, looking for exceptions to standards.

This report may be used to identify user profiles that have not been used for a long time or whose passwords have not been changed for a long time.

Also, run this report regularly to monitor unsuccessful sign-on attempts. Someone who is trying to break into your system may be aware that your system takes action after a certain number of unsuccessful attempts. Each night, the would-be intruder might try fewer times than your QMAXSIGN value to avoid alerting you to the attempts. However, if you run this report each morning and notice that certain profiles often have unsuccessful sign-on attempts, you might suspect that you have a problem.

| | | | | | | | | | |
|--|--------------|----------------|----------|--------------|------------|---------------|-----------------------|-----------------|--------------------|
| User Profile Authority Information Report | | | | | | | | | |
| AACLS001 | | | | | | | | | |
| QUERY NAME AAQYU1 | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | |
| TIME 08:07:02 | | | | | | | | | |
| Report Selection User Profiles: C* | | | | | | | | | |
| User Profile Authority Information | | | | | | | | | |
| AACLS001 | | | | | | | | | |
| 02/13/01 08:07:02 | PAGE | | | | | | | | |
| User Profile | Prev Sign On | Invalid SgnOns | Status | Last Pwd Chg | User Class | Group Profile | Owner of Crt'd Object | Group Authority | Limited Capability |
| User Profile Text | | | | | | | | | |
| Special Authorities | | | | | | | | | |
| User Options | | | | | | | | | |
| CAA | 02/08/01 | 0 | *ENABLED | 05/22/00 | *USER | *NONE | *USRPRF | *NONE | *NO |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |

The authority-related parameters are explained below:

- **Status** - whether the user profile is valid for sign on
- **User Class** - the type of user, such as:
 - PGMR - Programmer
 - SECADM - Security administrator
 - SECOFR - Security officer
 - SYSOPR - System operator
 - USER - User
- **Group Profile** - the primary group profile of which the user is a member
- **Owner** - the user profile that becomes the owner of objects that are created by the user associated with this profile.
- **Group Authority** - the authority given to the user's group profile when the user associated with this profile creates a new object and the user profile becomes the owner of the new object.

- **Limit Capability** - the limits to which the user can control the initial program, initial menu, current library, and attention key handling program values, and whether the user can run commands from command lines.
- **Special Authorities** - the special authorities that have been given to the user, such as:
 - **ALLOBJ** - All object authority
 - **AUDIT** - Auditing authority
 - **OSYSCFG** - System configuration authority
 - **JOBCTL** - Job control authority
 - **SAVSYS** - Save system authority
 - **SECADM** - Security administrator authority
 - **SERVICE** - Service authority
 - **SPLCTL** - Spool control authority

Option 5 Profile Environment Values

This report shows the environment values for each user profile. It will show relative job information, user interfaces and sign-on setup values.

- User identity
- Assistance Level
- Special Environment
- Message Queue Delivery Mode
- Message Severity
- Initial Menu
- Initial Program
- Job Description

- Message Queue
- Output Queue
- Attention Program
- Printer Device
- Current Library

```

                                User Profile Environment Values Report
                                ACL80U2
                                QUERY NAME . . . . . AAQYU2
                                LIBRARY NAME . . . . . PSAUDIT
                                FILE          LIBRARY      MEMBER      FORMAT
                                AAOUT         QTEMP        AAPF80      QSYDSUPB
                                DATE . . . . . 02/13/01
                                TIME . . . . . 08:25:09
                                Report Selection User Profiles: SGS
                                User Profile Environment Values
                                ACL80U2
                                PAGE          1

                                02/13/01 08:25:09
                                User Profile
                                -----
                                Assistance Special Message Queue Initial Initial Job Message Output Attention
                                Level Environmnt Delivery / Severity Menu Program Description Queue Queue Program
                                -----
                                Printr Dev Current Library
                                -----
                                SGS          USER PROFILE
                                -----
                                F3=Exit F12=Cancel F19=Left F20=Right F24=More keys
                                More
```

For the Attention Key Handling Program, if no attention key handling program is used by this user, *NONE is shown. If *SYSVAL is specified in the user profile, the actual attention key handling program specified for the QATNPGM system value is shown. If *ASSIST is specified, the QEZMAIN program in library QSYS is shown.

Option 6 Profiles w/Limit Capability = *NO

When a user has no limits on capability, it means they have command line authority. If you restrict a user by limiting their capability, they will not be able to execute commands even if they have a command line available. You can limit a users capability by changing their user profile.

| | | | | | | | | | |
|---|---------|----------|----------|-------------|------------|----------|-------------|-----------|------------|
| User Profiles Without Limited Capabilities Report | | | | | | | | | |
| AACL80U3 | | | | | | | | | |
| QUERY NAME AAQYU3 | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | |
| TIME 08:31:27 | | | | | | | | | |
| Report Selection User Profiles: *ALL | | | | | | | | | |
| User Profiles Without Limited Capabilities | | | | | | | | | |
| AACL80U3 | | | | | | | | | |
| PAGE | | | | | | | | | |
| 02/13/01 08:31:27 | | | | | | | | | |
| User | Prev | Invalid | Password | | Group | Owner of | Group | Limited | |
| Profile | Sign-On | Sign-Ons | Status | Change Date | User Class | Profile | Crt'd Objct | Authority | Capability |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| User Profile Text | | | | | | | | | |
| ----- | | | | | | | | | |
| Special Authorities | | | | | | | | | |
| ----- | | | | | | | | | |
| User Options | | | | | | | | | |
| More. | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |

Option 7 Profiles w/ *SECADM, *SECOFR or *ALLOBJ

This report lists the powerful profiles that have a user class of *SECOFR or *SECADM or Special Authority of *SECADM or *ALLOBJ.

These users have authority to change the system and you should audit the commands they execute.

| | | | | | | | | | |
|--|--------------|---|-----------|---------------|------------|----------|-------------|-----------|------------|
| User Profiles with SECADM, SECOFR, or ALLOBJ User Class/Special Auth. Report | | | | | | | | | |
| AACL80U4 | | | | | | | | | |
| QUERY NAME AAQYU4 | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | |
| TIME 08:37:04 | | | | | | | | | |
| Report Selection User Profiles: VXR | | | | | | | | | |
| 02/13/01 | 08:37:04 | User Profiles with SECADM, SECOFR, or ALLOBJ User Class/Special Authority | | | | | | | PAGE |
| AACL80U4 | | | | | | | | | |
| User | Previous | Invalid | Password | | Group | Owner of | Group | Limited | |
| Profile | Sign-On Date | Sign-Ons | Status | Change Date | User Class | Profile | Crt'd Objct | Authority | Capability |
| ----- | | | | | | | | | |
| User Profile Text | | | | | | | | | |
| Special Authorities | | | | | | | | | |
| User Options | | | | | | | | | |
| ----- | | | | | | | | | |
| No records in query report. | | | | | | | | | |
| | | | | | | | | | More |
| F3=Exit | F12=Cancel | F19=Left | F20=Right | F24=More keys | | | | | |

Option 8 Profiles that are *DISABLED

If a user has been *DISABLED, it is usually because someone has tried several times to signon to this User Profile with an incorrect password. This could be an unauthorized user trying to guess a password. You should monitor the password failures report for the workstation that is causing the problem.

| | | | | | | | | | | |
|--|-----------------------|------------------|---------|----------------------|------------|---------------|----------------------|-----------------|--------------------|-----|
| User Profiles with *DISABLED Status Report | | | | | | | | | | |
| AACL80U5 | | | | | | | | | | |
| QUERY NAME AAQYU5 | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AACUT QTEMP AAFP80 QSYDSUPB | | | | | | | | | | |
| DATE 07/13/99 | | | | | | | | | | |
| TIME 11:01:29 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| User Profiles with *DISABLED Status | | | | | | | | | | |
| AACL80U5 | | | | | | | | | | |
| 07/13/99 | 11:01:29 | PAGE | | | | | | | | |
| User Profile | Previous Sign-On Date | Invalid Sign-Ons | Status | Password Change Date | User Class | Group Profile | Owner of Crt'd Objct | Group Authority | Limited Capability | |
| User Profile Text | | | | | | | | | | |
| Special Authorities | | | | | | | | | | |
| User Options | | | | | | | | | | |
| ----- | | | | | | | | | | |
| *NONE | DEMOUSER | / / | 0 | *DISABLED | 05/07/99 | *USER | *NONE | *USRPRF | *NONE | *NO |
| *NONE | DUMMY | 04/01/99 | 0 | *DISABLED | 03/31/99 | *USER | *NONE | *USRPRF | *NONE | *NO |
| TEST | | | | | | | | | | |
| *NONE | DWL | 05/31/99 | 3 | *DISABLED | 05/06/99 | *SECOFR | *NONE | *USRPRF | *NONE | *NO |
| Damon LaCour, PentaSafe | | | | | | | | | | |
| *ALLOBJ | *AUDIT | *IOSYSCFG | *JOBCTL | *SAVSYS | *SECADM | *SERVICE | *SPLCTL | | | |
| *NONE | KFW | 04/21/99 | 0 | *DISABLED | 03/30/99 | *SECOFR | *NONE | *USRPRF | *NONE | *NO |
| Frank Wu | | | | | | | | | | |
| *ALLOBJ | *AUDIT | *IOSYSCFG | *JOBCTL | *SAVSYS | *SECADM | *SERVICE | *SPLCTL | | | |
| *NONE | QFIREWALL | / / | 0 | *DISABLED | 03/17/99 | *USER | *NONE | *USRPRF | *NONE | *NO |
| FINAL TOTALS | | | | | | | | | | |
| COUNT 5 | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | |
| (c) 1998 PentaSafe, Inc. | | | | | | | | | | |

Option 9 Profiles with Expired Passwords

This report will list the users that have expired passwords, which could be no longer needed and thus, should be deleted.

| | | | | | | | | | | |
|---|-----------------------|------------------|--------|----------------------|------------|---------------|-----------------------|-----------------|--------------------|--|
| User Profiles with Expired Passwords Report | | | | | | | | | | |
| ACL80U6 | | | | | | | | | | |
| QUERY NAME AAQYU6 | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | |
| DATE 07/13/99 | | | | | | | | | | |
| TIME 11:09:40 | | | | | | | | | | |
| Filter used for Report: DEFAULT | | | | | | | | | | |
| User Profiles with Expired Passwords | | | | | | | | | | |
| ACL80U6 | | | | | | | | | | |
| PAGE 1 | | | | | | | | | | |
| 07/13/99 11:09:40 | | | | | | | | | | |
| | | | | | | | | | | |
| User Profile | Previous Sign-On Date | Invalid Sign-Ons | Status | Password Change Date | User Class | Group Profile | Owner of Crt'd Object | Group Authority | Limited Capability | |
| ----- | | | | | | | | | | |
| User Profile Text | | | | | | | | | | |
| ----- | | | | | | | | | | |
| Special Authorities | | | | | | | | | | |
| ----- | | | | | | | | | | |
| User Options | | | | | | | | | | |
| ----- | | | | | | | | | | |
| DEMOSMSII / / 0 *ENABLED 05/21/99 *USER *NONE *USRPRF *NONE *NO | | | | | | | | | | |
| *NONE | | | | | | | | | | |
| *NONE | | | | | | | | | | |
| ZDUMMY 04/06/99 0 *ENABLED 04/01/99 *USER *NONE *USRPRF *NONE *NO | | | | | | | | | | |
| *NONE | | | | | | | | | | |
| *NONE | | | | | | | | | | |
| FINAL TOTALS | | | | | | | | | | |
| COUNT 2 | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | |

Option 10 Profiles by Initial Program/Menu

This report will sort your users by their Initial program and by Initial Menu. The initial program/menu is how a user gets access to the system. These parameters should be monitored for non-standard values.

Does the Initial Program adopt authority? If the Initial Menu is not *SIGNOFF, will the Initial Program display a command line if it fails?

| | | | | | | | | | | |
|---|-----------------|--------------|-----------------------|------------------|----------|----------------------|------------|---------------|-----------------------|---|
| User Profiles Initial Program/Menu Report | | | | | | | | | | |
| AACL80U7 | | | | | | | | | | |
| QUERY NAME AAQYU7 | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | | |
| TIME 08:42:01 | | | | | | | | | | |
| Report Selection User Profiles: SGS | | | | | | | | | | |
| User Profiles Initial Program/Menu | | | | | | | | | | |
| AACL80U7 | | | | | | | | | | |
| 02/13/01 | 08:42:01 | | | | | | | | PAGE | 1 |
| User Profile | Initial Program | Initial Menu | Previous Sign-on Date | Invalid Sign-Ons | Status | Password Change Date | User Class | Group Profile | Owner of Crt'd Object | |
| ----- | | | | | | | | | | |
| User Profile Text | | | | | | | | | | |
| ----- | | | | | | | | | | |
| SGS | *NONE | MAIN | 11/10/00 | 0 | *ENABLED | 09/18/00 | *SECOFR | *NONE | *USRPRF | |
| USER PROFILE | | | | | | | | | | |
| FINAL TOTALS | | | | | | | | | | |
| Mor | | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | |

Option 11 Profiles Not Signed On in “x” Days

This report lists users that have not signed on for a user-specified duration. You will be prompted to specify a number of days. This report is handy for identifying inactive users, which should be deleted.

| | | | | | | | | | | |
|---|-----------------------|------------------|-----------|----------------------|------------|---------------|-----------------------|-----------------|--------------------|---|
| User Profiles Not Signed-on in x Days Report | | | | | | | | | | |
| AACL80U8d | | | | | | | | | | |
| QUERY NAME AAQYU8 | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | | |
| TIME 08:46:21 | | | | | | | | | | |
| Users that have not signed on in 60 days | | | | | | | | | | |
| User Profiles Not Signed-on in x Days | | | | | | | | | | |
| AACL80U8d | | | | | | | | | | |
| 02/13/01 | 08:46:21 | | | | | | | | PAGE | 1 |
| User Profile | Previous Sign-on Date | Invalid Sign-Ons | Status | Password Change Date | User Class | Group Profile | Owner of Crt'd Object | Group Authority | Limited Capability | |
| ----- | | | | | | | | | | |
| User Profile Text | | | | | | | | | | |
| ----- | | | | | | | | | | |
| @AAA | / / | 0 | *DISABLED | 06/14/00 | *USER | *NONE | *USRPRF | *NONE | *NO | |
| TEST PROFILE | | | | | | | | | | |
| AAA | / / | 0 | *ENABLED | 12/08/00 | *USER | *NONE | *USRPRF | *NONE | *NO | |
| Mor | | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | |

The report reflects profiles that exceeded the specified number of days with no change or use. Profiles that have never been used, will not appear on the report. Profiles with a Password of *NONE will never appear on the report.

Actual use of the profile constitutes activity, not just signing on. Profiles can be used without signing on.

The used date is calculated based on the object description in the following sequence:

- Last Used date (if not blank)
- Changed date (if not blank)
- Creation date (if not blank)

The used date is compared with the previous sign-on date and the most recent of the two dates will be used for the calculation.

Option 12 Q* Profiles Last Sign-On Date/Time

This report will show the last sign-on date and time of each IBM-supplied Q* profiles, such as QSECOFR, QSYSOPR, QPGMR, QUSER, QSRV, QSRVBAS, etc. Since they do not have a specific identity for auditing purposes, these Q* profiles should not be allowed to sign-on. Change them to have a password of *NONE (except for QSECOFR) and create new user profiles that will use these Q* profiles as their Group Profiles and will therefore have the same authority.

```

      "Q" Profiles Last Signon Dates/Times Report
      AACL80U8q
      QUERY NAME . . . . . AAQYU9
      LIBRARY NAME . . . . . PSAUDIT
      FILE          LIBRARY    MEMBER      FORMAT
      AAROUT        QTEMP      AAPF80      QSYSDSUPB
      DATE . . . . . 02/14/01
      TIME . . . . . 12:02:08
      Report Selection User Profiles: *ALL
      "Q" Profiles Last Signon Dates/Times
      AACL80U9q
      PAGE 1
      User         Previous   Previous   Invalid   Password
      Profile      Sign-on Date Sign-on Time Sign-ons   Change Date  User Class  Group      Owner of   Group
      -----      -
      Limited
      Capability   User Profile Text
      -----
      QQQ          02/13/00       10:46:25       0          *ENABLED     02/13/00      *SECOFR     *NONE      *USRPRF     *NONE
      F3=Exit      F12=Cancel     F19=Left      F20=Right   F24=More keys
      More

```

```

      *NO      QSECOFR      02/13/01      11:18:11      0          *ENABLED     11/06/00      *SECOFR     *NONE      *USRPRF     *NONE
               Security Officer
      *NO      QSRV        05/11/99      14:26:36      1          *DISABLED     03/26/99      *PGMR       *NONE      *USRPRF     *NONE
               Service User Profile
      *NO      QUSER       02/01/01      14:53:23      0          *ENABLED     02/01/01      *USER       *NONE      *USRPRF     *NONE
               Work Station User
      FINAL TOTALS
      COUNT 4
      *** END OF REPORT ***
      (c) PentaSafe Security Technologies, Inc. 2000

```

Bot

Option 13 Profiles Initial Pgm Authority

Use this report to identify all initial programs specified in the user profile that adopts authority. Special attention should be given to any initial programs adopting authorities (owner has special authorities and the profile option specifies "Owner").

| AARP68 PROFILE | PROGRAM | PGM LIB | OWNER | USER PRF OPT | PROFILES ADOPT | INITIAL CRT DATE | PROGRAM CRT TIME | SRC FILE | 3:44:11 SRC LIB | 1/10/00 SRC MBR | Page |
|-----------------------|-----------|---------|-------|-----------------|-------------------|---------------------|---------------------|----------|--------------------|--------------------|------|
| AMAPICS | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| APC | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| APCPROD | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| CAH | QCMD | *LIBL | QSYS | User | Yes | 03/05/1997 | 20:11:58 | n/a | n/a | n/a | |
| CLS | QCMD | *LIBL | QSYS | User | Yes | 03/05/1997 | 20:11:58 | n/a | n/a | n/a | |
| CLST1 | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| CPK | PENTAINIT | *LIBL | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| CRC | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| QSRV | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| QSRVBAS | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| QSVCDRCR | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| QSYS | *NONE | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | |
| Y2K207 | PRMS | UTILITY | APC | Owner | Yes | 08/05/1998 | 05:41:41 | QCLSRC | UTILITY | PRMS | |
| Y2K221 | PRMS | UTILITY | APC | Owner | Yes | 08/05/1998 | 05:41:41 | QCLSRC | UTILITY | PRMS | |
| Y2K222 | PRMS | UTILITY | APC | Owner | Yes | 08/05/1998 | 05:41:41 | QCLSRC | UTILITY | PRMS | |
| Y2K223 | PRMS | UTILITY | APC | Owner | Yes | 08/05/1998 | 05:41:41 | QCLSRC | UTILITY | PRMS | |
| Y2K227 | PRMS | UTILITY | APC | Owner | Yes | 08/05/1998 | 05:41:41 | QCLSRC | UTILITY | PRMS | |
| ===== | | | | | | | | | | | |
| = | | | | | | | | | | | |
| Number of entries: 17 | | | | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | | | | |

Option 14 Profiles Initial Menu Authority

This report lists, by profile, the object authorities for initial menus. All information on this report, except the profile name, refers to the menu object.

| | | | | | | | | | | | |
|-----------------------------------|---------|----------------------------|-------|---------|-----------|---------|-------|-------|---------------------|---------------------|------|
| AARP69 | | USER PROFILES INITIAL MENU | | | | | | | 3:44:30 1/10/00 | | Page |
| -OBJECT-- -DATA-- | | | | | | | | | | | |
| PROFILE | MENU | MENU LIB | OWNER | P GROUP | AUTH LIST | USER | GROUP | AUTH | O M E A R R A U D E | | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | | |
| AMAPICS | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| APC | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| APCPROD | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| CAH | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| CLS | PROGRAM | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| CLST1 | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| CPK | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| CRC | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| DEY | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| DJB | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| EHD | PROGRAM | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| GAS | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| Y2K207 | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| Y2K221 | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| Y2K222 | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| Y2K223 | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| Y2K227 | MAIN | QSYS | QSYS | *NONE | *NONE | QSYS | n/a | *ALL | X | X X X X X X X X X X | |
| | | | | | | *PUBLIC | n/a | *USE | X | X X X X X X X X X X | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | |

Option 15 Profiles Attention Key Pgms

Use this report to identify any attention key programs adopting authorities (owner has special authorities and the profile option specifies “Owner”).

| AARP84 | | | USER PROFILE ATTENTION KEY | | | | PROGRAMS | | | 3:54:07 1/10/00 | | Page |
|-----------------------------------|-----------|----------|----------------------------|---------|-------|-----------|----------|----------|---------|-----------------|--|------|
| PROFILE | PROGRAM | PGM LIB | OWNER | PRF OPT | ADOPT | CRT DATE | CRT TIME | SRC FILE | SRC LIB | SRC MBR | | |
| AMAPICS | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| APC | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| APCFPROD | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| CAH | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| CLS | \$CLSATN | @CSCOGIN | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| CLST1 | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| CPK | ATTENTION | AUTOMENU | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a | | |
| CRC | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| DEY | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| DJB | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| EHD | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2KCORP | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2KOE | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2KOEAPC | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2KOEPROD | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2K202 | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2K207 | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2K221 | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2K222 | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2K223 | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| Y2K227 | QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | |
| ===== | | | | | | | | | | | | |
| Number of entries: | | 22 | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | |

Option 16 Attention Key Pgms That Adopt Auth

This report lists, by program name, all attention key programs that adopt authorities (Profile = Owner) and continue the adoption chain (Adopt = Yes).

| AARP82 | | | ATTENTION KEY PROGRAMS THAT ADOPT AUTHORITIES | | | | | | | 3:53:51 1/10/00 | | Page |
|--------------------|----------|-------|---|-------|-----------|----------|----------|---------|---------|-----------------|--|------|
| PROGRAM | PGM LIB | OWNER | PROFILE | ADOPT | CRT DATE | CRT TIME | SRC FILE | SRC LIB | SRC MBR | | | |
| \$CLSATN | @CSCOGIN | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | | |
| ATTENTION | AUTOMENU | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | | |
| QEZMAIN | QSYS | QSYS | User | Yes | 2/05/1997 | 22:10:32 | n/a | n/a | n/a | | | |
| QSCATTN | QSYS | QSYS | User | Yes | 3/11/1997 | 17:19:20 | n/a | n/a | n/a | | | |
| QUSCMDLN | QSYS | QSYS | User | Yes | 3/06/1997 | 2:06:16 | n/a | n/a | n/a | | | |
| ===== | | | | | | | | | | | | |
| Number of entries: | | 5 | * * * E N D O F R E P O R T * * * | | | | | | | | | |

Option 17 Profiles by Creation Date

This report lists, by profile, the creation date and time for all user profiles. The report also provides class, password, previous sign on, invalid sign on attempts, status, and if the profile has limited capability information.

| | | | | | | | | | | | | | | | | | | | |
|-----------------------------------|------------|----------|--------------------------------------|--------|------|------------|----------|------------|----------|------|------|-----|----------|-----|---------|-----|------|--|--|
| AARP79 | | | PROFILES CREATION AND PASSWORD DATES | | | | | | | | | | 3:53:03 | | 1/10/00 | | Page | | |
| -----CREATED----- | | | -----PASSWORD----- --PREV SIGNON-- | | | | | | | | | | | | | | | | |
| PROFILE | DATE | TIME | CLASS | =*NONE | EXPR | CHG | DATE | CHG | TIME | DATE | TIME | INV | SIGNON | ATM | STATUS | LMT | CAP | | |
| AMAPICS | 02/19/1998 | 12:52:47 | *PGMR | *NO | *NO | 02/19/1998 | 12:52:46 | 02/20/1998 | 08:33:23 | | | 0 | *ENABLED | | | *NO | | | |
| APC | 02/17/1998 | 17:53:36 | *USER | *NO | *NO | 02/17/1998 | 17:53:35 | 05/19/1998 | 13:02:24 | | | 0 | *ENABLED | | | *NO | | | |
| APCPROD | 07/31/1998 | 12:05:28 | *USER | *NO | *NO | 07/31/1998 | 12:05:27 | 08/04/1998 | 11:11:27 | | | 0 | *ENABLED | | | *NO | | | |
| CAH | 05/19/1998 | 15:51:16 | *USER | *NO | *NO | 05/20/1998 | 12:35:24 | 07/29/1998 | 12:42:47 | | | 0 | *ENABLED | | | *NO | | | |
| CLS | 06/12/1998 | 14:30:37 | *SECOFR | *NO | *NO | 07/13/1998 | 15:57:27 | 01/09/2000 | 21:45:07 | | | 0 | *ENABLED | | | *NO | | | |
| Y2KOEPROD | 07/24/1998 | 07:33:32 | *USER | *NO | *NO | 07/24/1998 | 07:33:32 | 01/07/2000 | 10:42:52 | | | 0 | *ENABLED | | | *NO | | | |
| Y2K202 | 04/22/1998 | 07:12:16 | *USER | *NO | *NO | 04/22/1998 | 07:12:16 | 01/01/2000 | 07:06:16 | | | 0 | *ENABLED | | | *NO | | | |
| Y2K207 | 04/22/1998 | 07:13:09 | *USER | *NO | *NO | 04/22/1998 | 07:13:09 | 01/04/2000 | 03:38:24 | | | 0 | *ENABLED | | | *NO | | | |
| Y2K221 | 04/22/1998 | 07:13:36 | *USER | *NO | *NO | 04/22/1998 | 07:13:36 | 01/08/2000 | 12:40:11 | | | 0 | *ENABLED | | | *NO | | | |
| Y2K222 | 04/22/1998 | 07:14:07 | *USER | *NO | *NO | 04/22/1998 | 07:14:07 | 12/31/1999 | 09:15:40 | | | 0 | *ENABLED | | | *NO | | | |
| Y2K223 | 04/22/1998 | 07:14:25 | *USER | *NO | *NO | 04/22/1998 | 07:14:25 | 01/08/2000 | 08:23:18 | | | 0 | *ENABLED | | | *NO | | | |
| Y2K227 | 04/22/1998 | 07:14:48 | *USER | *NO | *NO | 04/22/1998 | 07:14:48 | 01/08/2000 | 08:30:53 | | | 0 | *ENABLED | | | *NO | | | |
| ===== | | | | | | | | | | | | | | | | | | | |
| Number of profiles: | | | 12 | | | | | | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | | | | | | |

Option 18 Group Profiles w/ any Special Auth

This report lists, by profile, all group profiles and their associated class and special authorities. Also shown on the report is password information and the status of the group profile. Special attention should be given to group profiles with special authorities. Also, any group profiles that can and/or have been used to sign on (Password=*NONE = NO and/or have a previous sign on date & time) should be noted. It is normally not advised that group profiles be used for sign on; thus, group profiles should have Password=*NONE equal to *Yes.

| | | | | | | | | | | | | | |
|---|---------|-----------|---|------|------------|----------|-----|--------|-----|----------|---------|---------|------|
| AARF74 | | | GROUP PROFILES W/ ANY SPECIAL AUTHORITY | | | | | | | | 3:44:38 | 1/10/00 | Page |
| | | | -PASSWORD- ---PREV SIGNON--- | | | | | | | | | | |
| GRP PRF | CLASS | SP AUTH | =*NONE | EXPR | DATE | TIME | INV | SIGNON | ATM | STATUS | LMT | CAP | |
| AMAPICS | *PGMR | *NONE | *NO | *NO | 02/20/1998 | 08:33:23 | | | 0 | *ENABLED | *NO | | |
| APC | *USER | *NONE | *NO | *NO | 05/19/1998 | 13:02:24 | | | 0 | *ENABLED | *NO | | |
| QPGMR | *PGMR | *JOBCTL | *NO | *NO | 02/20/1998 | 06:22:46 | | | 0 | *ENABLED | *NO | | |
| QSECOFR | *SECOFR | *ALLOBJ | *NO | *NO | 01/07/2000 | 14:45:06 | | | 0 | *ENABLED | *NO | | |
| | | *IOSYSCFG | | | | | | | | | | | |
| | | *JOBCTL | | | | | | | | | | | |
| | | *SAVSYS | | | | | | | | | | | |
| | | *SECADM | | | | | | | | | | | |
| | | *SERVICE | | | | | | | | | | | |
| | | *SPLCTL | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | |
| Number of profiles: | | | 4 | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | |

Option 19 Group Profiles w/ ALL, SEC, or SRV

Use this report to identify all user profiles with *ALLOBS, *SECADM, or *SERVICE special authorities. These are very powerful authorities and special attention should be given to all user profiles with any of them.

| | | | | | | | | | | | | | |
|---------------------|---------|-----------|---|-----------------------------------|----------------|------|------------|----------|------------|-----|----------|---------|------|
| AARP73 | | | GROUP PROFILES W/ *ALLOBJ, *SECADM, OR *SERVICE | | | | | | | | 3:44:35 | 1/10/00 | Page |
| GRP PRF | CLASS | SP AUTH | -PASSWORD- =*NONE | --- | PREV SIGNON--- | EXPR | DATE | TIME | INV SIGNON | ATM | STATUS | LMT | CAP |
| QSECOFR | *SECOFR | *ALLOBJ | *NO | | | *NO | 01/07/2000 | 14:45:06 | | 0 | *ENABLED | *NO | |
| | | *IOSYSCFG | | | | | | | | | | | |
| | | *JOBCTL | | | | | | | | | | | |
| | | *SAVSYS | | | | | | | | | | | |
| | | *SECADM | | | | | | | | | | | |
| | | *SERVICE | | | | | | | | | | | |
| | | *SPLCTL | | | | | | | | | | | |
| ===== | | | | | | | | | | | | | |
| Number of profiles: | | | 1 | * * * E N D O F R E P O R T * * * | | | | | | | | | |

Option 20 User Profile Reports Menu 2

PA181

PentaSafe Security Technologies
User Profile Reports Menu 2

CAS
QPADEV000Q

Date: 6/06/00
Time: 17:13:58

Select one of the following:

1 Profiles with Multiple Groups

2 Profiles Last Sign-on Date

3 Profiles w/Pwd= *NONE or *DISABLED

4 Profile Password Last Change Date

5 User Profile = Password

6 Profiles w/LMTCPB= *NO or *PARTIAL

7 Profiles w/o Limit Device Sessions

8 Profile Object Auditing Values

9 Profiles Special Authorities

10 Profile Special Aut's/Exclude *NONE

11 Profile Integrity

12 Profiles with Weak Passwords

Enter Option or Function/Type ==> _____

F1=Help

F3=Exit

F6=Messages

F9=Window

F10=Cmd Line

F12=Previous

F13=Attention

F14=Batch Jobs

F18=Reports

Option 1 Profiles with Multiple Groups

This report shows each user's supplemental group profiles. The profiles specified here, along with the group profile, are used to determine what authority the user has if no specific user authority is given for the job.

| | | | | | | | | |
|-----------------------|----------|--------------|---|---------------------|--|--|------|---|
| 02/13/98 | 19:20:07 | AAQYUD | User Profiles Belonging to Multiple Groups | | | | PAGE | 1 |
| | | | Select if Supplemental Groups not equal to blanks | | | | | |
| User | Group | Owner of | Group | | | | | |
| Profile | Profile | Crt'd Object | Authority | Supplemental Groups | | | | |
| ----- | ----- | ----- | ----- | ----- | | | | |
| EHD | QSECOFR | *GRPPRF | *NONE | QSYSOPR | | | | |
| FINAL TOTALS | | | | | | | | |
| COUNT 1 | | | | | | | | |
| *** END OF REPORT *** | | | | | | | | |

Option 2 Profiles Last Sign-on Date

This report is sorted by “Previous Sign-on Date” in ascending sequence and will help you identify profiles that may be eligible for deletion.

It excludes user profiles with a Status of *DISABLED and those with no password assigned (Password of *NONE = *YES).

Your system should contain only user profiles that are necessary. If you no longer need a user profile because the user either has left or has taken a different job within the organization for an extended period, disable (deactivate) that user’s profile. An unnecessary user profile may provide unauthorized entry to your system.

Also, determine whether the password expiration interval for some user profiles is longer than the system value and whether the longer expiration interval is justified.

| | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| User Profiles Last Sign-on Date Report (*DISABLED not includ | | | | | | | | | | | | | | |
| AACL80UE | | | | | | | | | | | | | | |
| QUERY NAME AAQYUE | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | | | | | |
| DATE 02/23/01 | | | | | | | | | | | | | | |
| TIME 10:26:04 | | | | | | | | | | | | | | |
| Report Selection User Profiles: *ALL | | | | | | | | | | | | | | |
| User Profiles Last Sign-on Date (*DISABLED not included) | | | | | | | | | | | | | | |
| AACL80UE | | | | | | | | | | | | | | |
| Pwd Pwd Pwd = Grp Group Group Lmt Lmt D | | | | | | | | | | | | | | |
| Exp Exp? *NONE Status Prf? Profile Authority Cpb? Sessi | | | | | | | | | | | | | | |
| Itv ----- | | | | | | | | | | | | | | |
| 02/23/01 10:26:04 | | | | | | | | | | | | | | |
| User Century Previous Prv Sign Century Last | | | | | | | | | | | | | | |
| Profile Signon On Time Pwd Chg | | | | | | | | | | | | | | |
| ----- | | | | | | | | | | | | | | |
| No records in query report. | | | | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | |
| (c) PentaSafe Security Technologies, Inc. 2000 | | | | | | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | | | | | |
| Bot | | | | | | | | | | | | | | |

Option 3 Profiles w/Pwd= *NONE or *DISABLED

This report is sorted by “Previous Sign-on Date” in ascending sequence and will help you identify profiles that may no longer be needed because they have no password assigned or are *DISABLED, and therefore, they can’t sign on.

| | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| User Profiles With Password = *NONE or Status = *DISABLED R | | | | | | | | | |
| AACL80UF | | | | | | | | | |
| QUERY NAME AAQYUF | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | |
| TIME 09:19:55 | | | | | | | | | |
| Report Selection User Profiles: SGS | | | | | | | | | |
| User Profiles With Password = *NONE or Status = *DISABLED | | | | | | | | | |
| AACL80UF | | | | | | | | | |
| Pwd Pwd = Lmt Lmt Dev | | | | | | | | | |
| Exp *NONE Status Cpb? Session Special Authorities | | | | | | | | | |
| Itv ----- | | | | | | | | | |
| No records in query report. | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | |
| (c) PentaSafe Security Technologies, Inc. 2000 | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |

Option 4 Profile Password Last Change Date

Use this report to identify profiles that are not changing passwords as frequently as dictated by company policy.

The report excludes user profiles with a Status of *DISABLED and those with no password assigned (Password of *NONE = *YES).

| | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| User Profile Password Changes Report | | | | | | | | | |
| AACL80UG | | | | | | | | | |
| QUERY NAME AAQYUG | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | |
| DATE 02/23/01 | | | | | | | | | |
| TIME 10:30:55 | | | | | | | | | |
| Report Selection User Profiles: *ALL | | | | | | | | | |
| User Profile Password Changes by Date (PWD *NONE <> *YES & Status <> *DISAB | | | | | | | | | |
| AACL80UG | | | | | | | | | |
| User Century Last Pwd = | | | | | | | | | |
| Profile PwdChg *NONE Status Century Prev Grp Group Owner of Group Pwd Lmt Lmt Dev | | | | | | | | | |
| SignOn Prf? Profile Crted Objct Authority Exp Cpb? Session Special | | | | | | | | | |
| Itv ----- | | | | | | | | | |
| No records in query report. | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | |
| (c) PentaSafe Security Technologies, Inc. 2000 | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |

Option 5 User Profile = Password

This report will list user profiles with default passwords and thus with a high risk of exposure to unauthorized access and who may be violating company policy.

Also, some IBM-supplied user profiles are shipped with passwords. These passwords are published, and they are the first choice of anyone trying to break into your system. They should be changed to have a password of *NONE.

When you create a new user profile, the default is to set the password equal to the user profile name. This provides an opportunity for someone to enter your system, if someone knows your policy for assigning profile names and knows that a new person is joining your organization.

When you create new user profiles, consider assigning a unique, non-trivial password instead of using the default password. Tell the new user the password confidentially, such as in a welcoming letter outlining security policies. Require the user to change the password the first time that the user signs on by setting the user profile to PWDEXP(*YES).

This option will generate many password failures in the Security Journal and in the History Log (QHST).

| | | | | | | | | | |
|---|----------|-------|------------|---------|-------|-------|--------|----------------------|-------|
| User Profile = Password Report | | | | | | | | | |
| AACL7718 | | | | | | | | | |
| QUERY NAME AAQY18 | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAPASS1 QTEMP AAPASS1 AAPASSR | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | |
| TIME 09:24:30 | | | | | | | | | |
| Report Selection User Profiles: | | | | | | | | | |
| User Profile = Password | | | | | | | | | |
| AACL7718 | | | | | | | | | |
| *SECADM Limited Previous Password | | | | | | | | | |
| *ALLOBJ Capability Sign On Chg Date Profile Text | | | | | | | | | |
| User | Status | Pwd | User Class | Group | | | | | |
| Profile | | Expd | | Profile | | | | | |
| ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| AAAATEST | *ENABLED | *NO | *USER | *NONE | N | *NO | 000628 | TEST | |
| AAAA1 | *ENABLED | *NO | *USER | RPD | N | *NO | 000620 | TEST | |
| AAAA2 | *ENABLED | *NO | *USER | *NONE | N | *NO | 000620 | TEST | |
| AA1 | *ENABLED | *NO | *USER | *NONE | N | *NO | 000613 | | |
| AA12 | *ENABLED | *NO | *USER | *NONE | N | *NO | 000410 | CHANGING DESCRIPTION | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |

Option 6 Profiles w/LMTCPB= *NO or *PARTIAL

This report list profiles with access to a command entry line. If access to objects is controlled via menu access and not using object authority or with authorization lists, then anyone with access to a command line can gain access to your objects, such as sensitive data and programs. Furthermore, the PC RMTCMD command allows running iSeries commands without checking a user’s capabilities.

| | | | | | | | | | | | | | | |
|--|--------------|----------|-------------|------------------|-----------------|-----------------|-----------------|-------------------|-----------------|---------|--------------|-------|--|------|
| User Profiles with Limited Capability Equal to *NO or *PARTIAL | | | | | | | | | | | | | | |
| AACL80UJ | | | | | | | | | | | | | | |
| QUERY NAME AAQYUJ | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | | | | | |
| DATE 02/14/01 | | | | | | | | | | | | | | |
| TIME 10:57:28 | | | | | | | | | | | | | | |
| Report Selection User Profiles: *ALL | | | | | | | | | | | | | | |
| User Profiles with Limited Capability Equal to *NO or *PARTIAL | | | | | | | | | | | | | | |
| AACL80UJ | | | | | | | | | | | | | | |
| 02/14/01 10:57:28 | User Profile | Lmt Cpb? | Pwd = *NONE | Initial Sts Menu | Initial Library | Initial Program | Initial Library | Attention Program | Atn Pgm Library | Max Stg | Storage Used | Pt Lm | | |
| | QAAA | *NO | *NO | *DI MAIN | *LIBL | *NONE | | QEZMAIN | QSYS | 1- | 12 | 3 | | |
| | AAA | *NO | *NO | *EN MAIN | *LIBL | *NONE | | QEZMAIN | QSYS | 1- | 0 | 3 | | |
| | AAAAA | *NO | *NO | *DI MAIN | *LIBL | *NONE | | QEZMAIN | QSYS | 1- | 12 | 3 | | |
| | AAAAA | *NO | *NO | *DI MAIN | *LIBL | *NONE | | QEZMAIN | QSYS | 1- | 12 | 3 | | |
| | AAAATEST | *NO | *NO | *EN MAIN | *LIBL | QCMD | *LIBL | QEZMAIN | QSYS | 1- | 12 | 3 | | More |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | | | | | |

Option 7 Profiles w/o Limit Device Sessions

This report lists the user profiles who can be signed on to more than one workstation at a time. A value of “*NO” for the “Limit Device Sessions” parameter means that more than one user can be signed on with the same profile. The related system value is QLMTDEVSSN.

| | | | | | | | | | | | | | | |
|--|--------------|-------------|----------|--------------|---------------|----------------|-----------------------|-------------|---------|------------|--------|---------------------|--|------|
| User Profiles with Limit Device Sessions Parameter Set to '*NO' | | | | | | | | | | | | | | |
| AACL80UK | | | | | | | | | | | | | | |
| QUERY NAME AAQYUK | | | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | | | | | | |
| TIME 10:07:56 | | | | | | | | | | | | | | |
| Report Selection User Profiles: *ALL | | | | | | | | | | | | | | |
| User Profiles with Limit Device Sessions Parameter Set to '*NO' | | | | | | | | | | | | | | |
| AACL80UK | | | | | | | | | | | | | | |
| 02/13/01 10:07:56 | User Profile | Lmt Session | Dev Cpb? | Lmt Grp Prf? | Group Profile | Owner of Crtid | Group Objct Authority | Last PwdChg | Pwd Exp | Pwd = Prev | SignOn | Special Authorities | | |
| | QAAA | *NO | *NO | *NO | *NONE | *USRPRF | *NONE | 000614 | 0 | *NO | | *NONE | | |
| | AAA | *NO | *NO | *NO | *NONE | *USRPRF | *NONE | 001208 | 0 | *NO | | *NONE | | |
| | AAAAA | *NO | *NO | *NO | *NONE | *USRPRF | *NONE | 000620 | 0 | *NO | 000620 | *NONE | | |
| | AAAAA | *NO | *NO | *NO | *NONE | *USRPRF | *NONE | 000413 | 0 | *NO | | *NONE | | |
| | AAAATEST | *NO | *NO | *NO | *NONE | *USRPRF | *NONE | 000628 | 0 | *NO | | *NONE | | More |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | | | | | |

Option 8 Profile Object Auditing Values

This report lists user profiles being audited. Users with a high level of authority should be audited. The Command Usage Report By User can then be run for a user being audited.

Part 1

| User Profile Object Auditing Values | | | | | | | | | | | | |
|---|--------------|---------------|-------------|-------------|---------|----------|------------|----------------|-----------------|-----------------|-----------------|-----------------|
| AACLS00L | | | | | | | | | | | | |
| QUERY NAME AAQYUL | | | | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | | | | |
| AAOUT QTEMP AAPF80 QSYDSUPB | | | | | | | | | | | | |
| DATE 05/29/02 | | | | | | | | | | | | |
| TIME 14:18:06 | | | | | | | | | | | | |
| Report Selection User Profiles: *ALL | | | | | | | | | | | | |
| User Profile Object Auditing Values | | | | | | | | | | | | |
| AACLS00L | | | | | | | | | | | | |
| 05/29/02 14:18:06 | User Profile | Group Profile | Prev SignOn | Last PwdChg | Pwd Exp | Lmt Cpb? | User Class | Owner of Crt'd | Group Authority | Accounting Code | UstrPrf Damaged | Object Auditing |
| | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| | BMTTEST | *NONE | 011010 | 0 | *NO | *SECOFR | *USRPRF | *NONE | *NONE | | | *NONE |
| | KVG | QSECOFR | 020529 | 010726 | 1- | *NO | *SECOFR | *USRPRF | *NONE | | | *NONE |
| | MAK | *NONE | 020529 | 010321 | 1- | *NO | *SECOFR | *USRPRF | *NONE | | | *ALL |
| | MBY | *NONE | 020522 | 011212 | 1- | *NO | *SECOFR | *USRPRF | *NONE | | | *ALL |
| | PDA | *NONE | 020524 | 020506 | 0 | *NO | *SECOFR | *USRPRF | *NONE | | | *NONE |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | | | |

Part 2

| | | | | | |
|-----------------|-----------|---------|---------------------|--------|----------------|
| Action Auditing | | | Special Authorities | | |
| ----- | | | ----- | | |
| *CMD | | | *ALLOBJ | *AUDIT | *IOSYSCFG *JOB |
| *SECURITY | *SERVICE | *SYSMTG | *ALLOBJ | *AUDIT | *IOSYSCFG *JOB |
| *CMD | | | *ALLOBJ | *AUDIT | *IOSYSCFG *JOB |
| *CMD | *SYSMTG | | *ALLOBJ | *AUDIT | *IOSYSCFG *JOB |
| *JOBDDTA | *SECURITY | | *ALLOBJ | *AUDIT | *IOSYSCFG *JOB |

Option 9 Profiles Special Authorities

This is an informational report showing each user's User Class and Special Authorities, including user profiles with Special Authorities of *NONE.

```

All User Profiles, Showing User Class and Special Authorities
AACLB0UM
QUERY NAME . . . . . AAQYUM
LIBRARY NAME . . . . . PSAUDIT
FILE          LIBRARY      MEMBER      FORMAT
AAOUT         QTEMP        AAPF80     QSYDSUPB
DATE . . . . . 02/13/01
TIME . . . . . 10:19:24
Report Selection User Profiles: *ALL

02/13/01 10:19:24      All User Profiles, Showing User Class and Special Authorities
AACLB0UM

User
Profile  User Class Special Authorities
-----
@AAA     *USER      *NONE
AAA      *USER      *NONE
AAAAA    *USER      *NONE
AAAAAA   *USER      *NONE
AAAATEST *USER      *NONE

F3=Exit  F12=Cancel  F19=Left  F20=Right  F24=More keys
```

The following chart shows the default special authorities granted for each User Class:

| User Class | Special Authorities |
|------------|---|
| *SECOFR | *ALLOBJ, *SAVSYS, *JOBCTL, *SERVICE, *SPLCTL, *SECADM, *AUDIT, *IOSYSCFG |
| *SECADM | At QSECURITY level 10 or 20, the security administrator has *ALLOBJ, *SAVSYS, *SECADM, and *JOBCTL special authorities. At QSECURITY level 30 or above, the user has *SECADM, *SAVSYS, and *JOBCTL special authorities. |
| *PGMR | At QSECURITY level 10 or 20, the programmer has *ALLOBJ, *SAVSYS, and *JOBCTL special authorities. At QSECURITY level 30 or above, the user has *SAVSYS and *JOBCTL special authorities. |
| *SYSOPR | At QSECURITY level 10 or 20, the system operator has *ALLOBJ, *SAVSYS, and *JOBCTL special authorities. At QSECURITY level 30 or above, the user has *SAVSYS and *JOBCTL special authorities. |
| *USER | At QSECURITY level 10 or 20, the user has *ALLOBJ and *SAVSYS authority. At QSECURITY level 30 or above, the user has no special authorities. |

Option 10 Profile Special Aut/Exclude *NONE

Review this informational report, which excludes profiles with Special Authority of *NONE, for user profiles with special authorities granted to them.

Watch for user profiles that have special authorities such as *ALLOBJ, *SERVICE, *SPLCTL, *SECADM, *AUDIT, *SAVSYS, or *JOBCTL. A user profile with *ALLOBJ special authority can access all objects, regardless of the individual object authority, while someone with *SECADM is allowed security capabilities, and one with *SPLCTL has full access to spool files.

| | | | | | | | | | |
|---|--------------------|---------|----------|-------------|---------|---------|---------|----------|---------|
| User Profiles with Special Authorities Report | | | | | | | | | |
| AACL80UN | | | | | | | | | |
| QUERY NAME AAQYUN | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE | LIBRARY | MEMBER | FORMAT | | | | | | |
| AAOUT | QTEMP | AAPF80 | QSYDSUPB | | | | | | |
| DATE | 02/13/01 | | | | | | | | |
| TIME | 10:24:27 | | | | | | | | |
| Report Selection User Profiles: *ALL | | | | | | | | | |
| User Profiles with Special Authorities | | | | | | | | | |
| AACL80UN | | | | | | | | | |
| 02/13/01 10:24:27 | | | | | | | | | |
| User | User | Class | Special | Authorities | | | | | |
| Profile | | | | | | | | | |
| ----- | ----- | ----- | ----- | ----- | | | | | |
| ACMSDEMO | *PGMR | | *JOBCTL | *SAVSYS | | | | | |
| ACMSDMOOWN | *PGMR | | *JOBCTL | *SAVSYS | | | | | |
| ALDON | *PGMR | | *JOBCTL | *SAVSYS | | | | | |
| ALDONCMS | *PGMR | | *JOBCTL | *SAVSYS | | | | | |
| ARP | *SECOFR | *ALLOBJ | *AUDIT | *IOSYSCFG | *JOBCTL | *SAVSYS | *SECADM | *SERVICE | *SPLCTL |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |
| | | | | | | | | | More |

Option 11 Profile Integrity

This Report checks the integrity of all user and group profiles on the system. The report verifies if the user has Operational and Change authority on the User Profile Object. For every user with the necessary authority to the user profile object, the report checks for duplicate User Profile Identifier and Group Profile Identifier and also checks for the existence of Initial Menu, Initial Program, current Library, Job Description, Job Queue, Output Queue and Initial Library List.

A profile with no Operational and Change authority to the User Profile Object and any invalid Initial Menu, Initial Program, current Library, Job Description, Job Queue, Output Queue, or Initial Library List is not a valid profile and cannot be used to sign on to the system.

| | | | | | | | | | |
|---|---------------|-----------|--------------|--------------------------|-----------------|-----------------|---------------------|----------------------|--------------------|
| 11/29/99 14:44:49 | | | | Profile Integrity Report | | | | Page : 1 | |
| User Profile | Job Descriptn | Job Queue | Output Queue | Initial Menu | Initial Program | Current Library | User Prf Identifier | Group Prf Identifier | Invalid Parameters |
| ----- | | | | | | | | | |
| AKP | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 494 | | |
| ANONYMOUS | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | PUBLIC | 476 | | |
| ARP | QDFTJOB | QBATCH | *WRKSTN | MAIN | ARPSTART | ARP | 15281 | | |
| ARP1 | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 15438 | | |
| ASGS | SSSJOB | QBATCH | *WRKSTN | MAIN | *NONE | DDDDDDDDDD | 15470 | | Curlib |
| Invalid Initial Libraries:AAAAAA,BBBBBB | | | | | | | | | |
| | | | | | | | | | |
| B | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 15504 | | |
| BFTST | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 15283 | | |
| BTF | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 112 | | |
| BTFS | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 15429 | | |
| CAA | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 365 | | |
| CAASECOFR | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 15475 | | |
| CAA2 | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 430 | | |
| CAA3 | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 433 | | |
| CAS | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 480 | | |
| CLS | CLS | QSYSNOMAX | *WRKSTN | MAIN | \$CLSTART | *CRTDFT | 153 | | |
| CLST | QDFTJOB | QBATCH | *WRKSTN | MAIN | *NONE | *CRTDFT | 156 | | |
| ===== | | | | | | | | | |
| Final Totals: | | 16 | | | | | | | |
| ***** END OF REPORT ***** | | | | | | | | | |

Option 12 Profiles with Weak Passwords

This report lists all profiles with a weak password. A weak password is one that is easily guessed, either because it is an everyday word, a name, or an easy keyboard combination like 'QWERTY'.

This report uses a limited word list to determine if a password is weak and may not find every profile using a weak password on your system. The PSPasswordManager feature uses a more verbose word list and provides useful tools to identify and manage profiles using weak passwords.

This program uses the word list from PSPasswordManager if PSSecure is installed and licensed. Otherwise, the report will use a limited word list..

Note

The column titled “Pwr Prf ?” indicates whether the selected user profile is a *Powerful Profile*. Powerful Profiles are profiles that have special authorities.

| | | | | | | | | | | | | | | | | |
|--|-----------|-----|------|------------|------------|---------|---------|---------|---------|---------|---------|---------|---------|------------------|------------------|---------|
| AA0110C | | | | | | | | | | | | | | 15:56:16 9/01/00 | | Page |
| Profiles with Weak Passwords | | | | | | | | | | | | | | | | |
| User | Grp | Pwr | Prev | Pwd | Lmt | Initial | Initial | Initial | Initial | Initial | Initial | Initial | Initial | Initial | Initial | Initial |
| Profile | Status | Prf | Prf | Signon | Last | Exp | Pwd= | Cap | Intv | *Non | ? | Pgm | Lib | Program | Menu | Text |
| ----- | | | | | | | | | | | | | | | | |
| @AAA | *ENABLED | *NO | *NO | 00/00/0000 | 06/14/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | TEST | PROFILE |
| AAAAA | *ENABLED | *NO | *NO | 06/20/2000 | 06/20/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | TEST | |
| AAAAAA | *ENABLED | *NO | *NO | 00/00/0000 | 04/13/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | CHANGED DESCRIP | |
| AAAATEST | *ENABLED | *NO | *NO | 00/00/0000 | 06/28/2000 | 201 | *NO | *NO | | | | *LIBL | QCMD | *LIBL | MAIN | TEST |
| AAAA1 | *ENABLED | *NO | *NO | 06/20/2000 | 06/20/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | TEST | |
| AAAA2 | *ENABLED | *NO | *NO | 06/20/2000 | 06/20/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | TEST | |
| AAA1 | *DISABLED | *NO | *NO | 00/00/0000 | 05/10/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | NEW DESCRIPTION | |
| AA1 | *ENABLED | *NO | *NO | 00/00/0000 | 06/13/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | | |
| AA12 | *ENABLED | *NO | *NO | 00/00/0000 | 04/10/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | CHANGING DESCRIP | |
| AA12CFY | *DISABLED | *NO | *NO | 00/00/0000 | 05/15/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | CHANGING DESCRIP | |
| AA2 | *ENABLED | *NO | *NO | 00/00/0000 | 06/13/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | | |
| AA3 | *ENABLED | *NO | *NO | 00/00/0000 | 06/13/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | | |
| ABCD | *ENABLED | *NO | *NO | 03/16/2000 | 03/15/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | test1 | |
| ABCDE | *DISABLED | *NO | *NO | 00/00/0000 | 04/10/2000 | 201 | *NO | *NO | | | | *NONE | *LIBL | MAIN | abcdefgh user p | |
| ===== | | | | | | | | | | | | | | | | |
| Total Profiles with weak passwords: | | | | | 71 | 50.3% | | | | | | | | | | |
| Powerful Profiles with weak passwords: | | | | | 27 | 19.1% | | | | | | | | | | |
| Total Number of profiles on system: | | | | | 141 | | | | | | | | | | | |
| * * * E N D O F R E P O R T * * * | | | | | | | | | | | | | | | | |

Chapter 11

Option 9 Summary Reports

The Summary Reports Menu has several functions that combine all aspects of System Auditing and Reporting. These summary reports are very helpful for upper management because they are not very detailed, but still give enough information to keep them informed.

This menu is accessed by selecting Option 9 from the Main Menu.

| | | | |
|---|--------------------------------------|----------------|---------------|
| PA19 | PentaSafe Security Technologies, Inc | ANYUSER | Date: 9/14/01 |
| | Summary Reports Menu | QPADEV000B | Time: 9:39:51 |
| Select one of the following: | | | |
| 1 Summary of System Changes | | | |
| 2 Security Recommendations | | | |
| 3 Security Administrator Audit | | | |
| 4 Security Analysis | | | |
| 5 Security Check-up | | | |
| 6 Security Check-up Configurator | | | |
| 7 10 Point Security Check-up | | | |
| 8 Audit and Authority Analysis | | | |
| Enter Option or Function/Type ==> _____ | | | |
| F1=Help | F3=Exit | F6=Messages | F9=Window |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |
| | | | F10=Cmd Line |

The following options are available through the Summary Reports Menu shown above.

Option 1 Summary of System Changes

This option produces a 2-page report summarizing changes and other actions on the system, such as damaged objects, new objects created, changed objects, unsaved objects, objects being audited, new files created, new libraries created, programs adopting QSECOFR, changes to authority, and many more.

Note

If large journal receivers are attached, the job may run for an extended period of time and use high amounts DASD.

| | | | | | | | |
|---|--------------------------|---------------------------------|-------------------------------|---------------------------------|-------------------------------------|-----------------------------------|--------|
| Summary of System Changes Report | | | | | | | |
| AACL90SC | | | | | | | |
| QUERY NAME AAQY90SC | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | |
| AAPF75 PSAUDIT AAPF75 AAPF75R | | | | | | | |
| DATE 02/13/01 | | | | | | | |
| TIME 11:07:20 | | | | | | | |
| PSA V5.2 (c) 2000 PentaSafe PSAudit | | | | | | | |
| (c) 2000 PSAudit, PentaSafe | | | | | | | |
| Summary of System Changes | | | | | | | |
| AACL90SC | | | | | | | |
| 02/13/01 11:07:20 | | | | | | | PAGE 1 |
| Description | Count for this period | From date for this period | To date for this period | Count for previous period | From date for previous period | To date for previous period | |
| DAMAGED OBJECTS | 0 | 1-31-01 | 2-12-01 | 0 | 1-31-01 | 2-12-01 | |
| NEW OBJECTS CREATED | 0 | 1-31-01 | 2-12-01 | 4 | 1-31-01 | 2-12-01 | |
| CHANGED OBJECTS | 0 | 1-31-01 | 2-12-01 | 5 | 1-31-01 | 2-12-01 | |
| UNSAVED OBJECTS | 0 | 1-31-01 | 2-12-01 | 0 | 1-31-01 | 2-12-01 | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | More |

Option 2 Security Recommendations

The Recommended System Values and Network Attributes report is used to analyze your system and to make security-relevant recommendations based on industry standard settings. Your environment might need special settings that are different from these recommendations. Most of these special settings are derived from your System Values and Network Attributes.

This is a quick running report.

| | | | | | | | | | | |
|------------|--|----------|-----------|---------------|--|----------------|----------------------|---------|---------|------|
| AARP76 | | | | | Recommended System Values and Network Attributes | | | 9:02:30 | 9/17/01 | Page |
| | | | | | Recommended System Values | | | | | |
| System | | | | | Shipped | Current | Recommended | | | |
| Value | | | | | Values | Values | Values | | | W |
| Name | Description | | | | Values | Values | Values | | | C |
| ===== | | | | | | | | | | |
| QALWOBJRST | Allow object restore option | | | | *ALL | *ALL | *NONE | | | (|
| QALWUSRDMN | Allow user domain objects in libraries | | | | *ALL | *ALL | QTEMP | | | (|
| QATNPGM | Attention program | | | | *ASSIST | *ASSIST | *NONE | | | (|
| QAUDCTL | Auditing control | | | | *NONE | *NONE | *AUDLVL | | | (|
| QAUDENDACN | Auditing end action | | | | *NOTIFY | *NOTIFY | *NOTIFY | | | (|
| QAUDFRCLVL | Force auditing data | | | | *SYS | *SYS | *SYS | | | (|
| QAUDLVL | Security auditing level | | | | *NONE | *NONE | *AUTFAIL | | | (|
| QAUTOCFG | Autoconfigure devices | | | | 1 | 1 | 0 | | | (|
| QAUTORMT | Autoconfigure of remote controllers | | | | 1 | 1 | 0 | | | (|
| QAUTOVRT | Autoconfigure virtual devices | | | | 0 | 100 | 0 | | | (|
| QCMNRCYLMT | Communications recovery limits | | | | 0 0 | 10 1 | 0 0 | | | (|
| QCRRTAUT | Create default public authority | | | | *CHANGE | *CHANGE | *CHANGE | | | (|
| QCRTOBJAUD | Create object auditing | | | | *NONE | *NONE | Control Library Lev. | | | (|
| QDEVRCYACN | Device I/O error action | | | | *DSCMSG | *DSCMSG | *DSCMSG | | | (|
| QDSCJOBITV | Time interval before disconnected jobs end | | | | 240 | 30 | 120 | | | (|
| QDSPSGNINF | Sign-on display information control | | | | 0 | 0 | 1 | | | (|
| QINACTITV | Inactive job time-out | | | | *NONE | *NONE | 30 | | | (|
| QINACTMSGQ | Inactive job message queue | | | | *ENDJOB | *ENDJOB | *DSCJOB | | | (|
| QLMTDEVSSN | Limit device sessions | | | | 0 | 0 | 1 | | | (|
| QLMTSECOFR | Limit security officer device access | | | | 1 | 0 | 1 | | | (|
| QMAXSGNACN | Action to take for failed signon attempts | | | | 3 | 3 | 3 | | | (|
| QMAXSIGN | Maximum sign-on attempts allowed | | | | 3 | 5 | 3 | | | (|
| QPWDEXPITV | Password expiration interval | | | | *NOMAX | 201 | 60 | | | (|
| QPWDLMTAJC | Limit adjacent digits in password | | | | 0 | 0 | 1 | | | (|
| QPWDLMTCHR | Limit characters in password | | | | *NONE | *NONE | *NONE | | | (|
| QPWDLMTREP | Limit repeating characters in password | | | | 0 | 0 | 2 | | | (|
| QPWDMAXLEN | Maximum password length | | | | 8 | 10 | 10 | | | (|
| QPWDMINLEN | Minimum password length | | | | 6 | 2 | 7 | | | (|
| QPWDPOSDIF | Limit password character positions | | | | 0 | 0 | 0 | | | (|
| QPWDRQDDGT | Require digit in password | | | | 0 | 0 | 1 | | | (|
| QPWDRQDDIF | Duplicate password control | | | | 0 | 0 | 6 | | | (|
| QPWDLVDPGM | Password validation program | | | | *NONE | PSSECURE/ZPPVP | *NONE | | | (|
| QRETSVRSEC | Retain server security data | | | | 0 | 1 | 0 | | | (|
| QRMTIPL | Remote power on and IPL | | | | 0 | 0 | 0 | | | (|
| QRMTSIGN | Remote sign-on control | | | | *FRCSIGNON | *SAMEPRF | *FRCSIGNON | | | (|
| QRMTSRVATR | Remote service attribute | | | | 0 | 0 | 0 | | | (|
| QSECURITY | System security level | | | | 40 | 40 | 40 | | | (|
| QSRVDMP | Service dump control | | | | *DMPUSRJOB | *DMPUSRJOB | *NONE | | | (|
| QUSEADPAUT | Use adopted authority | | | | *NONE | *NONE | *NONE | | | (|
| AARP76 | | | | | Recommended System Values and Network Attributes | | | 9:23:32 | 9/17/01 | Page |
| | | | | | Recommended Network Values | | | | | |
| Network | | | | | Shipped | Current | Recommended | | | |
| Value | | | | | Values | Values | Values | | | W |
| Name | Description | | | | Values | Values | Values | | | C |
| ===== | | | | | | | | | | |
| DDMACC | Action for DDM requests from other systems. | | | | *OBJAUT | *OBJAUT | Use Exit Program. | | | (|
| JOBACN | Action for job stream received through the network | | | | *FILE | *SEARCH | *SEARCH | | | (|
| PCSACC | Action for Client AS400/400 requests. | | | | *OBJAUT | *OBJAUT | Use Exit Program. | | | (|
| Warning | | | | | | | | | | |
| Code | Description | | | | | | | | | |
| ===== | | | | | | | | | | |
| (10) | Current Value not Equal to Recommended Value. | | | | | | | | | |
| ===== | | | | | | | | | | |
| F3=Exit | F12=Cancel | F19=Left | F20=Right | F24=More keys | | | | | | |

Option 3 Security Administrator Audit

If you own PSAudit, this report audits when each individual report was last run. The Security Administrator can provide an audit of the information gathered over time to auditors who like to see that the auditing reports are run on a regular basis.

| | | | | | | | | | |
|---|----------|--|------------------|-----------------|-----------------|---------------|---------------|------|------|
| Security Administrator Audit Report | | | | | | | | | |
| AACL90SA | | | | | | | | | |
| QUERY NAME AAQY90SA | | | | | | | | | |
| LIBRARY NAME PSAUDIT | | | | | | | | | |
| FILE LIBRARY MEMBER FORMAT | | | | | | | | | |
| AAPF60 PSAUDIT AAPF60 A6PF60R | | | | | | | | | |
| DATE 02/13/01 | | | | | | | | | |
| TIME 10:40:46 | | | | | | | | | |
| PSA V5.2 (c) 2000 PentaSafe PSAudit | | | | | | | | | |
| 02/13/01 | 10:40:46 | Security Administrator Audit, Last Security Report Run Dates and Times | | | | | | PAGE | 1 |
| AACL90SA | | | | | | | | | |
| Job title | | Last submit date | Last submit time | Last start date | Last start time | Last end date | Last end time | | |
| Purge Security Journal Receiver | | 010204 | 030001 | 999999 | 999999 | 999999 | 999999 | | |
| Load Object & Library Database | | 010118 | 152305 | 010118 | 152305 | 999999 | 999999 | | |
| Load Information for Library Anal. | | 000525 | 150242 | 001114 | 091856 | 001114 | 100340 | | |
| Load File Information Database | | 000606 | 142127 | 001114 | 091856 | 001114 | 100340 | | |
| Programs That Adopt Authority | | 010212 | 140007 | 010213 | 103331 | 999999 | 999999 | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | |
| | | | | | | | | | More |

Option 4 Security Analysis

This option runs about 30 to 60 minutes and produces the following reports:

- AACL7701 - System Values Report
- AACL7702 - Programs that Adopt QSECOFR
- AACL7703 - Network Attribute Listing
- AACL7704 - Libraries with Authority Granted
- AACL7706 - Authority Lists and Specific Authority
- AACL7707 - Authorization Lists / Excludes Q*
- AACL7708 - Job Descriptions and Authorities
- AACL7709 - Output Queues and Parameters
- AACL80UA - Group Profiles
- AACL80UB - User Profile Parameter Analysis

- AACL80UC - User Profile Password Expiration not 0
- AACL80UE - User Profile Last Sign-on Date
- AACL80UF - User Pro Pass *NONE/*DISABLED
- AACL7718 - User Profile = Password
- AACL80UJ - User Profile Limit *NO *PARTIAL
- AACL80UK - User Pro Limit Device Sessions
- AACL80UL - User Profile Object Auditing Values
- AACL80UM - All User Profiles Special Authorities
- AACL80U1 - User Profile Authoritative Information
- AACL80U2 - User Profile Environment Information
- AACL80U4 - User Profiles SECADM SECOFR ALLOBJ
- AACL80U5 - User Profiles *DISABLED
- AACL80U6 - User Profile with Expired Password
- AACL80U7 - User Profiles Initial Program/Menu

Option 5 Security Check-up

Found in System Auditing and Reporting under Summary Reports, this report specifies the report name as cross reference against each paragraph in order to ease the user's effort in knowing which report to execute for each option.

| | | |
|---|-------------------------|--------------|
| 11/18/99 09:25:49 | PSAudit Check-up Report | PAGE 1 |
| | Threshold | Total Points |
| | ***** | ***** |
| Details of Check-Up | | |
| 1 User Profiles Pass Intvl NOT SYSVAL ==> | 0 ==> 5 | 5 |
| Users without SYSVAL specified for the Password Expiration Value on the system. | | |
| These User Profiles have been created incorrectly or have been changed so they have a different value other *SYSVAL to be forced to change their password. | | |
| This is usually do to users that do not to change their password. A value of *NOMAX will cause the users to never be forced to change their password. | | |
| For Details use SAR's Menu Option PA18 ,030,03 or Rpt AACL80UC | | |
| ***** | | |
| 3 Group Profiles that have a password ==> | 0 ==> 3 | 9 |
| Group Profiles that have a password assigned on the system. | | |
| Group Profiles are usually set up as generic User Profiles that are not used by a specific user. All User Profiles should be assigned to specific users, so Group Profiles should have a password of *NONE. | | |
| An additional issue with User Profiles using Group Profiles is that the Special Authorities DO NOT appear on the individual User Profiles. | | |
| For Details use SAR's Menu Option PA18 ,020,02 or Rpt AACL80UB | | |
| ***** | | |
|More | | |
| ***** | | |
| Date | Time | Total Points |
| 1999/11/18 | 09:19 | 2449 |
| **** Previous Point Totals ***** | | |
| 1999/11/17 | 09:44 | 2415 |
| 1999/11/17 | 09:20 | 2415 |
| 1999/11/17 | 09:05 | 2415 |
| 1999/11/17 | 08:57 | 2415 |
| 1999/11/16 | 16:56 | 2415 |
| 1999/11/15 | 16:04 | 2373 |
| * * * E N D O F R E P O R T * * * | | |

Description

The Check-up Report will analyze over 60 areas of the operating system. Many of the checks address User Profiles, System Values, Network Attributes, and other security settings. The Check-up report will compare your system setup with thresholds that can be configured for your installation. If the threshold is broken, the Check-up Report will assign points for that violation. At the end of the report, a point total will give you a baseline of your security setup on the iSeries. This will allow for comparison of current point totals to previous or future point totals.

The Check-up Report goes one step further than just assigning points for each violation. It will also give you an explanation of why the violation is bad for your security setup. This information can be used by the non-technical person to justify changes in the security setup.

The report can be run two ways:

- All checks can be printed regardless of whether or not the threshold has been broken.
- Only the occurrences when the threshold has been broken will be printed. This will highlight areas that you need to address.

The Check-up Report is not resource intensive and will take 10 minutes to 2 hours to run depending on your processor.

Option 6 Security Check-up Configurator

Use this panel to change the number of violations (threshold) allowed and the points assigned for each violation. The text printed on the Check-up Report can also be accessed for change using F9.

| | | | |
|--------------------------------------|--------------------------------------|--------------|----------|
| RP002 | PSAudit Check-up Report Configurator | 16:10:10 | 2/13/98 |
| | | System: | PENTA401 |
| Report Description | Threshold *CHAR or *DEC | Points | |
| User Profiles Pass Intvl NOT SYSVAL | 0 | 5 | |
| Group Profiles that have a password | 0 | 3 | |
| Group Profiles with ALLOBJ Authority | 0 | 10 | |
| Group Profiles with AUDIT Authority | 0 | 5 | |
| Group Profiles with SECADM Authority | 0 | 10 | |
| Group Profiles with SERVICE Author | 0 | 5 | |
| Group Profiles with SPLCTL Authority | 0 | 2 | |
| IBM profile(s) that have passwords | 2 | 10 | |
| User Profiles *USER with LMTCPB *NO | 5 | 5 | |
| User Profiles with ALLOBJ Authority | 2 | 10 | |
| User Profiles with AUDIT Authority | 2 | 5 | |
| User Profiles with IOSVSCFG Author | 2 | 5 | |
| User Profiles with JOBCTL Authority | 5 | 2 | |
| User Profiles with SAVSYS Authority | 2 | 2 | |
| User Profiles with SECADM Authority | 2 | 5 | |
| User Profiles with SERVICE Authority | 2 | 5 | |
| User Profiles with SPLCTL Authority | 2 | 2 | |
| User Profiles Limit Device Sessions | 2 | 1 | + |
| F3=Exit | F9=Fold/Unfold | ENTER=Update | |

Function Keys

F3=Exit

Ends the current task and returns to the display from which the task was started. Any information not sent to the system is lost.

F9=Fold/Unfold

This function key will expand the panel to show the text that prints on the report. The text can be changed on the unfolded panel.

Enter=Update

Press ENTER to update any changes made to the Threshold, Points, or Text, before exiting.

Option 7 10 Point Security Check-up

This report scans your system and gives you a fast analysis of 10 critical and overlooked details in your security setup. If these critical areas are not secure, your iSeries is vulnerable to serious security exposure.

| | | | |
|---|--|----------|------------|
| ISIS | 10 Point AS/400 Security Check-up | 6/06/00 | |
| AA0100 | by PentaSafe Security Technologies, Inc. | Ver: 2.2 | |
| Report Descriptions | Found | Target | Rating |
| 1) Profiles with *ALLOBJ Special Authority | 79 | 2 | * FAILED * |
| 2) Profiles with *SECADM Special Authority | 76 | 2 | * FAILED * |
| 3) Profiles with *SERVICE Special Authority | 73 | 2 | * FAILED * |
| 4) Profiles with *IOSVSCFG Special Authority | 79 | 2 | * FAILED * |
| 5) IBM Profiles with Passwords | 3 | 2 | * FAILED * |
| 6) Profiles with Weak Passwords | 129 | 0 | * FAILED * |
| 7) Powerful Profiles with Weak Passwords | 41 | 0 | * FAILED * |
| 8) User Profiles w/ cmd line & w/o Special Auth | 111 | 5 | * FAILED * |
| 9) User Profiles NOT Used in 60 Days | 122 | 0 | * FAILED * |
| 10) Server Exit Points without Exit Programs | 62 | 35 | * FAILED * |

Bottom

Your AS/400 passed 0 of the 10 checks (0 %). For details press F9.
00225 User Profiles (00066 disabled), 00006 Group Profiles (00003 disabled).
Your AS/400 has several major security exposures. Contact PentaSafe NOW at
1-888-400-2834 and let us help you solve all your AS/400 security problems.
ENTER=Continue F9=Hide/Show Details F12=Cancel

The “Found” Column displays how many Profiles or Exit Points matches the criteria as described in the “Report Description” column. A “Failed” Security Rating indicates the value in the “Found” column exceeds the value in the “Target” column.

Function Keys

F3=Exit

Returns to the Summary Reports Menu.

F9=Hide/Show Details

Shows a detailed description of each report.

Option 8 Audit and Authority Analysis

The Audit and Authority Analysis menu provides options that let you validate the access authority and audit level for the following objects on the system:

- Libraries (*LIB)
- Folders (*FLR)
- Directories (*DIR)
- Job Descriptions (*JOBDD)
- User Profiles (*USRPRF)

The reports available through this menu provide information to analyze the system and identify discrepancies between the recommended and current values for these five types of objects.

```
PA191                PentaSafe Security Technologies, Inc    ANYUSER      Date:  9/14/01
                      Audit and Authority Analysis            QPADEV000B   Time: 10:26:12

Select one of the following:

 1  Public Authority - Job Description
 2  Public Authority - User Profiles
 3  Auditing Value - Directories
 4  Auditing Value - Folders
 5  Auditing Value - Libraries

10  Audit and Authority Configuration

Enter Option or Function/Type ==> _____

F1=Help      F3=Exit      F6=Messages   F9=Window      F10=Cmd Line
F12=Previous F13=Attention F14=Batch Jobs F18=Reports
```

For user profiles and job descriptions, it is critical how *PUBLIC authority is defined. For example, if *PUBLIC *ALL is specified, all users are granted all management and data authorities to all user profiles. Therefore, it is important to understand what level of *PUBLIC authority has been specified for user profiles and job descriptions.

Recommended values for *PUBLIC authorities are defined in the Rules and Exceptions Table, which will be used to determine discrepancies between the recommended values and the current *PUBLIC authority values for all objects. Exceptions to the default values can be added to the Rules and Exceptions Table, based on customer requirements for each system.

For libraries, folders, and directories, it is important to define the appropriate audit level. A poorly designed auditing process can generate many more audit records than you can analyze, and can have a severe impact on system performance. For example, if the *OBJAUD value for a library is set to *ALL, an audit entry will be written every time the system searches for an object in that library. Under these circumstances, a frequently used library on a busy system would generate a very large number of audit journal entries.

Objects for libraries, folders, and directories represent one of two resource types: operating system resources (*OSR) and user resources (*UR). Most of the objects supplied by IBM consist of *OSR objects, and the remaining objects consist of *UR objects. NetIQ has provided default values for the Operating System Resource Table. Recommended auditing values are defined in the Rules and Exceptions Table. You can also add customer-created exceptions to the Rules and Exceptions Table.

Option 1 Public Authority — Job Description

The Job Descriptions Analysis report shows discrepancies between the recommended and current public authority values for job descriptions. You can generate this report for all job descriptions or for only job descriptions with exceptions.

| | | | | | | | | | | |
|-------------------|------------|-----------|---|-------------|-------------|---------------------------------------|--------------------|--|------|--|
| AAPRFJOB | | | JOB DESCRIPTIONS ANALYSIS REPORT | | | | 17:22:10 9/13/01 | | Page | |
| | | | RULES AND EXCEPTION | | | | | | | |
| SYSTEM | LIBRARY | OBJECT | OBJECT | PUBLIC | | | | | | |
| NAME | NAME | USER | TYPE | AUTHORITY | | | | | | |
| ===== | ===== | ===== | ===== | ===== | | | | | | |
| *ALL | *ALL | *ALL | *JOB | *EXCLUDE | | | | | | |
| *ALL | QGFL | QSPLAFPW | *JOB | *USE | | | | | | |
| *ALL | QGFL | QSPLBDR | *JOB | *USE | | | | | | |
| *ALL | QGFL | QSPLDKTR | *JOB | *USE | | | | | | |
| ===== | ===== | ===== | ===== | ===== | | | | | | |
| Name: _____ | | | | Date: _____ | | | Signature: _____ | | | |
| Name: _____ | | | | Date: _____ | | | Signature: _____ | | | |
| Name: _____ | | | | Date: _____ | | | Signature: _____ | | | |
| AAPRFJOB | | | JOB DESCRIPTIONS ANALYSIS REPORT | | | | 17:22:10 9/13/01 | | Page | |
| SYSTEM NAME: ISIS | | | CURRENT VALUES | | | | SECURITY LEVEL: 40 | | | |
| LIBRARY | OBJECT | USER | OBJECT | PUBLIC | RULE | ERROR | | | | |
| NAME | NAME | PROFILE | DESCRIPTION | AUTHORITY | DESCRIPTION | | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | | |
| \$ _PSDETECT | PSDDFTJOB | QSYSOPR | PSDetect | *EXCLUDE | *EXCLUDE | | | | | |
| \$ _PSDETECT | PSDDFTFRT | QSYSOPR | PSDetect | *EXCLUDE | *EXCLUDE | | | | | |
| \$ _PSDETECT | PSDSTRCT | QSYSOPR | PSDetect; Start Action Monitor | *EXCLUDE | *EXCLUDE | | | | | |
| \$ _PSDETECT | PSDSTRALT | QSYSOPR | PSDetect; Start Alert Monitor | *EXCLUDE | *EXCLUDE | | | | | |
| \$ _PSDETECT | PSDSTRNET | QSYSOPR | PSDetect; Start Network Monitor | *EXCLUDE | *EXCLUDE | | | | | |
| \$ _PSDETECT | PSDSTRPGR | QSYSOPR | PSDetect; Start Paging Monitor | *EXCLUDE | *EXCLUDE | | | | | |
| \$ _PSDETECT | PSDSTRSBS | QSYSOPR | PSDetect; Start Subsystem | *EXCLUDE | *EXCLUDE | | | | | |
| \$PSCPTF002 | ZRRMCU | PSOBJOWNS | RRM Daemon Cleanup Job | *CHANGE | *EXCLUDE | Authority is *CHANGE, should be *EXCL | *EXCL | | | |
| \$PSCPTF02P | ZRRMCU | PSOBJOWNS | RRM Daemon Cleanup Job | *CHANGE | *EXCLUDE | Authority is *CHANGE, should be *EXCL | *EXCL | | | |
| \$PSDPTF002 | PSDSTREML | QSYSOPR | Start Email Monitor | *EXCLUDE | *EXCLUDE | | | | | |
| \$PSDPTF010 | PSDSTREML | QSYSOPR | Start Email Monitor | *EXCLUDE | *EXCLUDE | | | | | |
| \$PSDPTF018 | PSDSTRTRP | QSYSOPR | Start Trap Monitor | *EXCLUDE | *EXCLUDE | | | | | |
| ACMSCTL | ACMSNEPJOB | ALDONCMS | Aldon/CMS JOB for NEP Jobs | *CHANGE | *EXCLUDE | Authority is *CHANGE, should be *EXCL | *EXCL | | | |
| ACMSRCTL | ARMTBCHJOB | ALDONCMS | Aldon/CMS JOB for Remote Batch Jobs | *CHANGE | *EXCLUDE | Authority is *CHANGE, should be *EXCL | *EXCL | | | |
| AXENT | PSEAGENT | PSOBJOWN | | *EXCLUDE | *EXCLUDE | | | | | |
| AXENT | PSEAGENTD | PSOBJOWN | | *EXCLUDE | *EXCLUDE | | | | | |
| AXENT | PSEREPORT | PSOBJOWN | | *EXCLUDE | *EXCLUDE | | | | | |
| BLUAUD031 | AJRJOB | BLUEALL | Audit Journal AutoStart Job Description | *EXCLUDE | *EXCLUDE | | | | | |
| BLUAUD031 | EMRJOB | BLUEPRINT | CPYSCN job | *CHANGE | *EXCLUDE | Authority is *CHANGE, should be *EXCL | *EXCL | | | |
| BLUUTLO31 | BLUEPRINT | BLUEALL | Blueprint - scheduled job entries job | *EXCLUDE | *EXCLUDE | | | | | |

Option 2 Public Authority - User Profiles

The User Profile Error report shows discrepancies between the recommended and current public authority values for user profiles. You can generate this report for all user profiles or for only user profiles with exceptions.

| | | | | | | | | |
|-------------|---------|---------|---------------------------------|----------------------------|------------------|------------------|---------------------------------------|------|
| AAPRFJOB | | | | USER PROFILES ERROR REPORT | | 17:26:17 9/13/01 | | Page |
| | | | | RULES AND EXCEPTION | | | | |
| SYSTEM | LIBRARY | OBJECT | OBJECT | PUBLIC | | | | |
| NAME | NAME | NAME | TYPE | AUTHORITY | | | | |
| ===== | | | | | | | | |
| *ALL | QSYS | *ALL | *USRPRF | *EXCLUDE | | | | |
| *ALL | QSYS | QDBSHR | *USRPRF | *USE | | | | |
| *ALL | QSYS | QSPLJOB | *USRPRF | *USE | | | | |
| *ALL | QSYS | QTMPLPD | *USRPRF | *USE | | | | |
| ===== | | | | | | | | |
| Name: _____ | | | | Date: _____ | Signature: _____ | | | |
| Name: _____ | | | | Date: _____ | Signature: _____ | | | |
| Name: _____ | | | | Date: _____ | Signature: _____ | | | |
| AAPRFJOB | | | | USER PROFILES ERROR REPORT | | 17:26:17 9/13/01 | | Page |
| SYSTEM | LIBRARY | OBJECT | OBJECT | CURRENT VALUES | PUBLIC | RULE | ERROR | |
| NAME | NAME | NAME | DESCRIPTION | | AUTHORITY | | DESCRIPTION | |
| ===== | | | | | | | | |
| ISIS | QSYS | ETEST | E Prefix Test for PPM | | *ALL | *EXCLUDE | Authority is *ALL, should be *EXCLUDE | |
| ISIS | QSYS | JDE | J D Edwards System Profile | | *ALL | *EXCLUDE | Authority is *ALL, should be *EXCLUDE | |
| ISIS | QSYS | QDBSHR | Internal Data Base User Profile | | USER DEF | *USE | Authority is USER DEF, should be *USE | |
| ISIS | QSYS | QPGMR | Programmer and Batch User | | *USE | *EXCLUDE | Authority is *USE, should be *EXCLUDE | |
| ISIS | QSYS | QTMPLPD | ALLOW REMOTE LPR REQUESTERS | | USER DEF | *USE | Authority is USER DEF, should be *USE | |
| ===== | | | | | | | | |
| Init: _____ | | | | | | | | |

Option 3 Auditing Value — Directories

The Directories Analysis report shows discrepancies between the recommended and current auditing values for public authority regarding directories. The report shows the resource type (*OSR or *UR) for each directory under the ROOT. You can generate this report for all directories or for only directories with exceptions. To generate this report, you must have authority to access directories under the ROOT.

| | | | | | | | | | | | |
|-------------|---------------|-------------|-----------------------------|-------------|-----------|------------------|----------------|--|---------|--|------|
| AAREPLFD | | | DIRECTORIES ANALYSIS REPORT | | | | 17:28:36 | | 9/13/01 | | Page |
| | | | RULES AND EXCEPTION | | | | | | | | |
| SYSTEM | LIBRARY | OBJECT | OBJECT | RESOURCE | PUBLIC | AUDIT | | | | | |
| NAME | NAME | NAME | TYPE | TYPE | AUTHORITY | VALUE | | | | | |
| ===== | | | | | | | ===== | | | | |
| *ALL | / | *ALL | *DIR | *OSR | *ALL | *NONE | | | | | |
| *ALL | / | *ALL | *DIR | *OSR | *CHANGE | *NONE | | | | | |
| *ALL | / | *ALL | *DIR | *OSR | *EXCLUDE | *ALL | | | | | |
| *ALL | / | *ALL | *DIR | *OSR | *USE | *CHANGE | | | | | |
| *ALL | / | *ALL | *DIR | *UR | *EXCLUDE | | | | | | |
| ===== | | | | | | | ===== | | | | |
| Name: _____ | | | | Date: _____ | | Signature: _____ | | | | | |
| Name: _____ | | | | Date: _____ | | Signature: _____ | | | | | |
| Name: _____ | | | | Date: _____ | | Signature: _____ | | | | | |
| AAREPLFD | | | DIRECTORIES ANALYSIS REPORT | | | | 17:28:36 | | 9/13/01 | | Page |
| | | | CURRENT VALUES | | | | | | | | |
| SYSTEM | DIRECTORY | OBJECT | RSCE | PUBLIC | AUDIT | RULE | ERROR | | | | |
| NAME | | DESCRIPTION | TYPE | AUTHORITY | VALUE | | DESCRIPTION | | | | |
| ===== | | | | | | | ===== | | | | |
| ISIS | /arpl | | *UR | *RX | *NONE | | No Rules Found | | | | |
| ISIS | /core | | *UR | *NONE | *NONE | | No Rules Found | | | | |
| ISIS | /cryptix | | *UR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /dev | | *UR | *X | *NONE | | No Rules Found | | | | |
| ISIS | /etc | | *OSR | *RX | *NONE | | No Rules Found | | | | |
| ISIS | /home | | *OSR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /java | | *OSR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /jdb | | *UR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /kvg | | *UR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /linoma | | *UR | *RX | *NONE | | No Rules Found | | | | |
| ISIS | /netpc | | *OSR | *NONE | *NONE | | No Rules Found | | | | |
| ISIS | /reports | | *UR | *NONE | *NONE | | No Rules Found | | | | |
| ISIS | /reports1214 | | *UR | *NONE | *NONE | | No Rules Found | | | | |
| ISIS | /resource.frk | | *UR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /safesite | | *UR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /tmp | | *OSR | *RWX | *NONE | | No Rules Found | | | | |
| ISIS | /usr | | *UR | *RX | *NONE | | No Rules Found | | | | |
| ISIS | /var | | *UR | *RX | *NONE | | No Rules Found | | | | |
| ISIS | /vxr | | *UR | *RWX | *NONE | | No Rules Found | | | | |

Option 4 Auditing Value — Folders

The Folders Analysis report shows discrepancies between the recommended and current auditing values for public authority for each folder. The report shows the resource type (*OSR or *UR) for each folder. You can generate this report for all folders or only folders with exceptions. To generate this report, you must have authority to access all folders in the system.

| | | | | | | | | | | |
|-------------|-----------|-------------|-------------------------|-----------|------------------|---------|---------------------------------|------------------|--|------|
| AAREPLFD | | | FOLDERS ANALYSIS REPORT | | | | | 17:34:27 9/13/01 | | Page |
| | | | RULES AND EXCEPTION | | | | | | | |
| SYSTEM | LIBRARY | OBJECT | OBJECT | RESOURCE | PUBLIC | AUDIT | | | | |
| NAME | NAME | NAME | TYPE | TYPE | AUTHORITY | VALUE | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | | |
| *ALL | QDOC | *ALL | *FLR | *OSR | *ALL | *NONE | | | | |
| *ALL | QDOC | *ALL | *FLR | *OSR | *CHANGE | *NONE | | | | |
| *ALL | QDOC | *ALL | *FLR | *OSR | *EXCLUDE | *ALL | | | | |
| *ALL | QDOC | *ALL | *FLR | *OSR | *USE | *CHANGE | | | | |
| *ALL | QDOC | *ALL | *FLR | *OSR | USER DEF | *NONE | | | | |
| *ALL | QDOC | *ALL | *FLR | *UR | *ALL | *NONE | | | | |
| *ALL | QDOC | *ALL | *FLR | *UR | *CHANGE | *NONE | | | | |
| *ALL | QDOC | *ALL | *FLR | *UR | *EXCLUDE | *NONE | | | | |
| *ALL | QDOC | *ALL | *FLR | *UR | *USE | *CHANGE | | | | |
| *ALL | QDOC | *ALL | *FLR | *UR | USER DEF | *NONE | | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | | |
| Name: _____ | | | Date: _____ | | Signature: _____ | | | | | |
| Name: _____ | | | Date: _____ | | Signature: _____ | | | | | |
| Name: _____ | | | Date: _____ | | Signature: _____ | | | | | |
| AAREPLFD | | | FOLDERS ANALYSIS REPORT | | | | | 17:34:27 9/13/01 | | Page |
| | | | CURRENT VALUES | | | | | | | |
| SYSTEM | FOLDER | OBJECT | RSCE | PUBLIC | AUDIT | RULE | ERROR | | | |
| NAME | | DESCRIPTION | TYPE | AUTHORITY | VALUE | | DESCRIPTION | | | |
| ===== | ===== | ===== | ===== | ===== | ===== | ===== | ===== | | | |
| ISIS | ARP | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | BMIZN | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | EHJ | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | NOB | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | MAK | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | PMB | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | PMBOFIC | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | PPF11 | | *UR | *EXCLUDE | *NONE | *NONE | | | | |
| ISIS | QADTSCS | | *OSR | *USE | *NONE | *CHANGE | Audit Value is *NONE, should be | *CHA | | |
| ISIS | QADTSCWIN | | *OSR | *USE | *NONE | *CHANGE | Audit Value is *NONE, should be | *CHA | | |
| ISIS | QBKBOOKS | | *OSR | *CHANGE | *NONE | *NONE | | | | |
| ISIS | QCOWEWIN | | *OSR | *USE | *NONE | *CHANGE | Audit Value is *NONE, should be | *CHA | | |
| ISIS | QCOWE400 | | *OSR | *USE | *NONE | *CHANGE | Audit Value is *NONE, should be | *CHA | | |
| ISIS | QDIADOC5 | | *OSR | *CHANGE | *NONE | *NONE | | | | |

Option 5 Auditing Value — Libraries

The Libraries Analysis report shows discrepancies between the recommended and current auditing values for public authority for each library. The report shows the resource type (*OSR or *UR) for each library. You can generate this report for all libraries or only libraries with exceptions.

| | | | | | | | | | |
|-------------|-------------|---------------------------|---------------------------|-------------|-----------|------------------|------------------|-----------------|-------|
| AAREPLFD | | | LIBRARIES ANALYSIS REPORT | | | | 17:40:38 9/13/01 | | Page |
| | | | RULES AND EXCEPTION | | | | | | |
| SYSTEM | LIBRARY | OBJECT | OBJECT | RESOURCE | PUBLIC | AUDIT | | | |
| NAME | NAME | NAME | TYPE | TYPE | AUTHORITY | VALUE | | | |
| ===== | | | | | | | | | |
| *ALL | QSYS | *ALL | *LIB | *OSR | *ALL | *NONE | | | |
| *ALL | QSYS | *ALL | *LIB | *OSR | *CHANGE | *NONE | | | |
| *ALL | QSYS | *ALL | *LIB | *OSR | *EXCLUDE | *ALL | | | |
| *ALL | QSYS | *ALL | *LIB | *OSR | *USE | *CHANGE | | | |
| *ALL | QSYS | *ALL | *LIB | *OSR | USER DEF | *NONE | | | |
| *ALL | QSYS | *ALL | *LIB | *UR | *ALL | *NONE | | | |
| *ALL | QSYS | *ALL | *LIB | *UR | *CHANGE | *NONE | | | |
| *ALL | QSYS | *ALL | *LIB | *UR | *EXCLUDE | *NONE | | | |
| *ALL | QSYS | *ALL | *LIB | *UR | *USE | *NONE | | | |
| *ALL | QSYS | *ALL | *LIB | *UR | USER DEF | *NONE | | | |
| ===== | | | | | | | | | |
| Name: _____ | | | | Date: _____ | | Signature: _____ | | | |
| Name: _____ | | | | Date: _____ | | Signature: _____ | | | |
| Name: _____ | | | | Date: _____ | | Signature: _____ | | | |
| AAREPLFD | | | LIBRARIES ANALYSIS REPORT | | | | 17:40:38 9/13/01 | | Page |
| | | | CURRENT VALUES | | | | | | |
| SYSTEM | LIBRARY | OBJECT | RSCE | PUBLIC | AUDIT | RULE | ERROR | | |
| NAME | NAME | DESCRIPTION | TYPE | AUTHORITY | VALUE | | DESCRIPTION | | |
| ===== | | | | | | | | | |
| ISIS | \$PFC0975 | ACMS Work Library for Tem | *UR | *CHANGE | *NONE | *NONE | | | |
| ISIS | \$PFC7591 | ACMS Work Library for Tem | *UR | *CHANGE | *NONE | *NONE | | | |
| ISIS | \$PSDETECT | FS Detect program objects | *UR | *CHANGE | *ALL | *NONE | Audit Value is | *ALL, should be | *NONE |
| ISIS | \$PSDETSRC | FS Detect source objects | *UR | *CHANGE | *ALL | *NONE | Audit Value is | *ALL, should be | *NONE |
| ISIS | \$PSCPTF001 | SR 1-1165205 (INSTALLED) | *UR | *CHANGE | *NONE | *NONE | | | |
| ISIS | \$PSCPTF002 | RRM performance improve | *UR | *CHANGE | *NONE | *NONE | | | |
| ISIS | \$PSCPTF003 | Approved Entries Subfile | *UR | *CHANGE | *NONE | *NONE | | | |
| ISIS | \$PSCPTF004 | Telnet Performance improv | *UR | *CHANGE | *NONE | *NONE | | | |
| ISIS | \$PSCPTF02P | RRM DB2 Server performanc | *UR | *CHANGE | *NONE | *NONE | | | |
| ISIS | \$PSDPTF001 | PSDetect command truncati | *UR | *CHANGE | *ALL | *NONE | Audit Value is | *ALL, should be | *NONE |
| ISIS | \$PSDPTF002 | Email Extension(in testin | *UR | *CHANGE | *ALL | *NONE | Audit Value is | *ALL, should be | *NONE |
| ISIS | \$PSDPTF003 | Enable all message queues | *UR | *CHANGE | *ALL | *NONE | Audit Value is | *ALL, should be | *NONE |
| ISIS | \$PSDPTF004 | Version/Release number -- | *UR | *CHANGE | *ALL | *NONE | Audit Value is | *ALL, should be | *NONE |
| ISIS | \$PSDPTF005 | Daemon for PSM100Q to Mes | *UR | *CHANGE | *NONE | *NONE | | | |

Option 10 Audit and Authority Configuration

The Audit and Authority Configuration menu provides options that let you maintain the Operating System Resources Table and the Rules and Exceptions Table.

| | | | |
|--------|--------------------------------------|------------|----------------|
| PA1911 | PentaSafe Security Technologies, Inc | ANYUSER | Date: 9/15/01 |
| | Audit and Authority Configuration | QPADEV000P | Time: 14:09:58 |

Select one of the following:

- 1 Operating System Resources Table
- 2 Rules and Exceptions Table

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 Operating System Resources Table

Use this option to maintain the Operating System Resources Table for libraries, folders, and directories. NetIQ has provided default values for this table. You can add, delete or change the resource type for any object on your system.

AADF3510
ANYSERVER

OSR File Maintenance Program
PentaSafe, Inc.

15:22:14
9/13/2001
Review

Type options, press Enter.
2=Edit 4=Delete 5=Display

Object Type *LIB

1

(1)

(2)

(3)

| Opt | System Name | Object Name | Object Description | Rsce Type |
|------|-------------|-------------|--------------------|-----------|
| *ALL | | QDNS | | *OSR |
| *ALL | | QDOC | Document library | *OSR |
| *ALL | | QDSNX | | *OSR |
| *ALL | | QFNTCPL | | *OSR |
| *ALL | | QFPINT | | *OSR |
| *ALL | | QGDDM | | *OSR |
| *ALL | | QHLP SYS | | *OSR |
| *AL | | QHTTP | | *OSR |

More...

F1=Help F3=Exit F6=Add F7=Review F8=Browse F12=Cancel
F13=Repeat

Option 2 Rules and Exceptions Table

Use this option to maintain the Rules and Exceptions Table for job descriptions, user profiles, libraries, folders, and directories. NetIQ has provided default values for this table. You can add, delete, or change the rules type for any object on your system.

```

AADF3520                Rules/Exceptions Maintenance Program      15:26:35      9/13/2001
ISIS                    PentaSafe, Inc.                          Review

Type options, press Enter.
  2=Edit      4=Delete      5=Display

Object Type      *LIB

1

      (1)      (2)      (3)
System      Library      Object
Opt Name      Name      Type      Rsrc      Public      Audit
*ALL      QSYS      *ALL      *LIB      *OSR      *ALL      *NONE
*ALL      QSYS      *ALL      *LIB      *OSR      *CHANGE      *NONE
*ALL      QSYS      *ALL      *LIB      *OSR      *EXCLUDE      *ALL
*ALL      QSYS      *ALL      *LIB      *OSR      *USE      *CHANGE
*ALL      QSYS      *ALL      *LIB      *OSR      USER DEF      *NONE
*ALL      QSYS      *ALL      *LIB      *UR      *ALL      *NONE
*ALL      QSYS      *ALL      *LIB      *UR      *CHANGE      *NONE
*ALL      QSYS      *ALL      *LIB      *UR      *EXCLUDE      *NONE
*ALL      QSYS      *ALL      *LIB      *UR      *USE      *NONE
*ALL      QSYS      *ALL      *LIB      *UR      USER DEF      *NONE
More...

F1=Help      F3=Exit      F6=Add      F7=Review      F8=Browse      F12=Cancel
F13=Repeat

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```

Chapter 12

Journal Receivers, Filters, API

Managing Journal Receivers

NetIQ Corporation recommends the generation of a new receiver prior to upgrading or reloading the Operating System so that all upgrade-related functions are kept together in the same receiver(s).

To generate a new receiver:

1. CALL AACL35 to generate a new receiver
2. Upgrade or reload the Operating System
3. CALL AACL35 again to generate a new receiver before resuming normal operations
4. CALL AACL35 again to generate another receiver
5. CALL AACL34 to save the receivers to tape (it will prompt for tape drive)
6. CALL AACL36 to delete the receivers

The intent is to reduce the amount of information to be searched when the security reports are run, since the O/S upgrade or reload can generate vast amounts of Security Auditing Journal entries.

An alternative is to turn off security journaling altogether prior to the upgrade or reload and then turning it on again immediately after.

Working With Filters

Filters allow you to specify the selection criteria used to limit the data shown on an audit report and to specify the criteria and thresholds for sending alerts to PSDetect. A filter can be specified on the “Filter name” prompt field of the report Submittal Window and on the “Filter (query) name” (QRY) parameter of the Start System Audition and Reporting API (STRAAAPI) command.

To work with query filters, use either F9 (Filter) from any report Submittal Window or Option 13 (Work With Filters) from the System Setup and Defaults Menu. Either F9 or Option 13 will present the Select Query to Work With screen. However, F9 lists only the filters that apply to the selected report. Option 13 lists all filters.

| | | | |
|--|------------|--------------------------|--|
| AARP50-01 | | 9/29/00 | |
| SGS | | <u>Work with Filters</u> | |
| 2=Update 3=Copy 4=Delete 6=Change Alert/Desc | | 13:43:03 | |
| Opt | Report | All Filters | |
| | <u>ID</u> | <u>Filter Name</u> | <u>Description</u> <u>File Name</u> |
| = | AAACCTLE | DEFAULT | Account Limits Exceeded QASYVLJE |
| - | AAADOPT | DEFAULT | Programs That Adopt Authority ADPSEC |
| - | AAAPPNEV | DEFAULT | APPN End Point Filter Violatio QASYNEJE |
| - | AAAPPNFV | DEFAULT | APPN Dir Search Filter Violati QASYNDJE |
| - | AAAUDCHG | DEFAULT | Object Auditing Attribute Chan QASYADJE |
| - | AAAUDSQL | DEFAULT | SQL Auditing AA0207F |
| - | AAAUTHCHG | DEFAULT | Restore Objects When Author. C QASYRAJE |
| - | AAAUTHFAIL | DEFAULT | All Authority Failures QASYAFJE |
| - | AAAUTHLISQ | DEFAULT | Authorization Lists (Excludes AUTLOBJ |
| - | AAAUTHLIST | DEFAULT | Authority Lists and Specific A AUTLUSER |
| - | AAAUTHUSER | DEFAULT | Restore Author. for User Profi QASYRUJE |
| - | AACHECKUP | TEST | TEST |
| - | AACHGACL | DEFAULT | Access Control List (ACL) Chan QASYVAJE |
| - | AACHGFILES | DEFAULT | Changed Files AALF30A |
| - | AACHGJOB0 | DEFAULT | Changes to the USER of a JOB0 QASYJDJE + |
| F3=Exit | | F6=Add New Filter | F8=Limit View to DEFAULT F12=Return |

Option 2 = Update - To update an existing filter definition, enter a “2” in the option field of the filter and build the filter query definition. To build the filter query definition select the necessary fields (F4) and specify the necessary criteria. Note, F10 (Display Op Codes) shows all available operation codes.

The figure below shows an example of a filter query definition. This filter will eliminate all data except where the user profile's initial program contains "PS01" and the user profile status equals "*ENABLED".

AARP50-03
CAS

Filter Query Definition
3/31/00
15:09:05

Select option, press ENTER
4=Delete

Report ID...: AAUSRPRFUB
Filter name.: TEST
Description.: TEST
File name...: AAPF80

| Opt | AND/OR | Field Name | Operator Value | Value (quotes are not needed) |
|-----|--------|------------|----------------|-------------------------------|
| - | AND | UPUPRF | EQ | cls |
| - | | UPJBDS | NE | X |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |
| - | | | | |

F3=Exit F4=Select Fields F9=Insert Line F10=Display Op Codes F12=Return

Option 3 = Copy - To copy an existing filter description, enter a 3 in the option field of the filter. This option displays the Filter/Threshold Definition screen. The screen displays all the definitions of the filter being copied except the name of the filter.

Option 4 = Delete - To delete an existing filter, enter a 4 in the option field of the filter.

Option 6 = Change Alert/Desc - To change an existing filters description and/or alert information, enter a 6 in the option field of the filter. This option displays the Filter/Threshold Definition screen. Make any necessary changes (see F6 = Add a new filter below).

F6 = Add new filter - To create a new filter press F6 (Add New Filter) from the Work with Filters screen and enter the following:

- Filter name:** Name of filter (up to 10 characters)
- Description** Filter description (up to 30 characters)

Action: • The action to perform when the threshold is exceeded. An alert can be sent to PSDetect or a report can be produced

Threshold: • The maximum number the applicable event can occur before the specified action occurs.

Message: Message: The message text to use for the specified action

Press ENTER to return to the “Work with Filters” screen. You may use Option 2 to modify the selection criteria.

F8 = Limit View to Default/View All - Toggles the display between showing only the default filters or all defined filters.

Quick Steps To Create a New Filter

To create a new filter:

1. From the Work with Filters screen, press F6 (Add New Filter).
2. Enter the appropriate information on the Filter/Threshold Definition screen, press ENTER.
3. Follow the steps below for updating a filter to define the filters selection criteria.

To update an existing filter:

1. From the Work with Filters screen, type 2 in the option field next to the filter to update, and press ENTER.
2. From the Filter Query Definition screen, use F4 (Select Fields) to select the field names on which to perform the record selection and press ENTER.
3. Position the cursor under the column labeled “Operator Value” and type an Operation Code, such as EQ, NE, GT, etc. Note: Use F10 (Display Op Codes) to display all available operation codes.

4. Under the “Value” column, type the value to be compared with the tested field. The contents of the field named on the left are tested in each record against the value specified to determine whether the record is selected by the filter.
5. Repeat steps 2 through 5 until all desired fields have been selected. When finished, press ENTER to save the Filter Query Definition.
6. Press F12 to return to the Work with Filters screen or F3 to return to the Submittal Window.

Changing Query Definitions

To modify an iSeries Query Definition (*QRYDFN) object supplied with PSAudit:

1. CALL PGM(PSAUDIT/AUDITFILES) to create files in QTEMP library needed as input by the queries.
2. Type **WRKQRY** and press ENTER. The Work With Queries panel appears.
3. Type 2, the query name, and press ENTER. The query name is always ‘AAQY’, suffixed with the last two characters of the report name, as in AAQL28CA (Changes To Object Authority), the query name is AAQYCA.

You could, for example, modify AAQYCA to be joined with an outfile of the Display Object Description (DSPOBJD) command for the purpose of omitting libraries of type TEST. To do so, you will need to:

1. DSPOBJD OBJ(QSYS/*ALL) OBJTYPE(*LIB) OUTPUT(*OUTFILE)
OUTFILE(QGPL/LIBS)

(You may want to regularly schedule a refresh of this file using the iSeries Job Scheduler)

2. Performs steps 1 through 3 from above query modification instructions

3. Modify query AAQYCA as follows:
 - a. Join file QASYCAJE to file LIBS in QGPL library
 - b. Type of join is “2”
 - c. Join on: CAOLIB EQ ODOBNM
 - d. Select records:
 - CAOLIBNE‘QTEMP’
 - ODOBATNE‘TEST’
4. Whenever you do want to include TEST libraries in your reports, simply clear file LIBS (CLRPFM QGPL/LIBS) before running the report.

Caution

Queries will be replaced with the next release of PSAudit. The queries you modify should be placed in a library that is higher in the library list than PSAUDIT or you can save them from PSAUDIT prior to upgrading PSAudit and then restore them after upgrade.

System Auditing and Reporting API

STRAAAPI Command

The Application Program Interface (API) allows you to access System Auditing and Reporting functions from within your own programs or automatic job scheduling systems. All System Auditing and Reporting reports can be submitted using the API. The Start System Auditing and Reporting API (STRAAAPI) command provides an easy way of specifying tasks that you want to process. Through this command, you can specify parameters for reports as if you were selecting them from the interactive submittal window.

From a command line, type in the command (STRAAAPI), then press F4.

STRAAAPI Parameters

The parameters for the STRAAPI command are as follows:

| Run System Auditing Reports (STRAAPI) | | |
|---------------------------------------|----------------|--------------------------------|
| Type choices, press Enter. | | |
| Name of Report | _____ | Name |
| Library, UstrPrf, Cmd or SysNam | *PREV _____ | *ALL, Gen*, *USRLIBL, Library |
| From Date | *PREV _____ | job date format |
| To Date | *PREV _____ | job date format |
| Print Detail/Reorg | * _____ | *Prev Det Summ Both Yes No 1/2 |
| Count | *PREV _____ | Integer Count |
| Reload Database Before Report . | N _____ | Yes No |
| Filter (query) name | DEFAULT _____ | Name |
| Name of File for Data | *NONE _____ | *NONE or Name |
| Name of Library for Data File . | QGPI _____ | Name |
| Member Option for Data File . . | *REPLACE _____ | *REPLACE *ADD |
| Run Report Interactively | *NO _____ | *YES *NO |
| Send Data to Central AS/400 . . | *NO _____ | *YES *NO |
| Name of Journal File | *NONE _____ | *NONE, *GLOBAL or Name |
| Library for Journal File | QGPI _____ | Name |
| Output Queue | *PREV _____ | Name |
| More... | | |
| F3=Exit | F4=Prompt | F5=Refresh |
| F24=More keys | F12=Cancel | F13=How to use this display |
| Already at top of area. | | |

```

Run System Auditing Reports (STRAAAPI)

Type choices, press Enter.

Job Queue . . . . . *PREV      Name
Hold on JOBQ . . . . . *NO      *NO *YES

Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys

```

The parameters for the STRAAAPI command are as follows:

For default values of valid parameters for each report see page 2-286.

REPORT - Specifies the name of the report that is to be processed.

name - The 10 character name of the report. Use API Cross Reference for names of reports. For more information, see “API Cross Reference” on page 302.

LIBRARY - Specifies the library selection. The library parameter of the STRAAAPI command accepts a Library Name, User Profile, Command, or System Name, depending on the report to be run.

- ***PREV** - The previous value that was specified
- ***ALL** - All libraries on the system
- **Gen*** - Enables a generic name (i.e., Q* will process all libraries that begin with Q). These generic selections follow the same rules as IBM generics.

- *USRLIBL - Processes all libraries in the user portion of the library list. With this selection, you can manipulate the library list with the EDTLIBL command before submitting the report to access specific libraries.
- Library - The single library to process.

FROMDATE - Specifies the from-date value.

- *PREV - Use the previous value that was specified
- Date - A valid date value in format MM/DD/YY
- *PRVME - Previous month end
- *PRVMS - Previous Month Start
- *PRVWK - Previous week (last 7 days)
- *PRVDY - Previous day
- *CURMS - Current Month Start
- *CURR - Current Day

TODATE - Specifies the to-date value.

- *PREV - Use the previous value that was specified
- Date - A valid date value in format MM/DD/YY
- *PRVME - Previous month end
- *PRVMS - Previous Month Start
- *PRVWK - Previous week (last 7 days)
- *PRVDY - Previous day
- *CURMS - Current Month Start
- *CURR - Current Day

PRINT - Specifies the print parameter. This option has multiple uses depending on report type. For more information, see “API Cross Reference” on page 302.

- * Use the previous value that was specified for the selected report.
- *D, S, or B* - Print the detail, summary, or both reports.
- *Y or N* - Submit file reorganization process yes or no. This option only applies to report AACL32FR (files that need to be reorganized).

COUNT - Specifies the number of records to print, or the Percent of Deleted Records or Number of Deleted Records for report AACL32FR. This can also specify the Number of Days Not Used for the report of User Profiles Not Used.

- **PREV* - Use the previous value that was specified.
- *count* - The integer value of the number of records to print.

RELOAD - Specifies whether to reload the necessary database file before running the report. The library value works in conjunction with the RELOAD parameter. If you specify LIBRARY (*USRLIBL) and RELOAD (Y), the database will be reloaded for the libraries in the user portion of your library list before the report is processed.

- *N* - Do not reload the database file before running the report.
- *Y* - Reload the database file before running the report.

Query - Name of filter query to use when the report runs. Refer to Data Filtering

File, Library, Mbr. Option - If you want to create a file for containing the report data instead of the actual report, you enter the file name and library here.

Run Interactively - The “STRAAAPI” command will submit a job unless you specify *YES for this parameter.

Send Data to Central AS/400 - This feature is not available yet.

Journal File

***NONE** Use the QUADJRN to run the security reports.

File The file name to be used instead of the QAUDJRN.

Note

The file must be TYPE4 Outfile created by the DSPJRN command.

Journal Library

Name The library where the journal data is stored.

OUTQ - Specifies the output queue to hold the printed reports.

***PREV** Use the previous value that was specified.

Name The 10 character name of the output queue.

Note - Ensure that the current library list contains the library in which the OUTQ exists.

JOBQ - Specifies the job queue to use for the batch job.

***PREV** Use the previous value that was specified.

Name The 10 character name of the job queue.

Note - Ensure that the current library list contains the library in which the JOBQ exists.

HOLD - Specifies whether the submitted job is placed on hold on job queue.

- ***NO** - Do not hold the submitted job
- ***YES** - Hold the submitted job

STRAAAPI Example

An example of how to use the STRAAAPI command in your own programs or automatic scheduling system is as follows:

If you want to process the Authority Failures Report (AACL28AF), specify the date range using the from and to date parameters. The library parameter does not apply on this report.

To see which parameters are valid for each report type, use the cross reference list on the next page. For the “All Authority Failures Report” named AACL28AF, the only values needed are the FROMDATE and TODATE parameters.

```
STRAAAPI(AACL28AF) FROMDATE(010198) TODATE(053198)
JOBNAME(*DEFAULT) OUTQ(PRT11) JOBQ(*PREV) JOBQP(5)
HOLD(*NO)
```

This parameter list will submit a job to list authority failures from 1/01/98 to 5/31/98. The output will be put in PRT11.

Sample API Program

In a source file called SOURCE in PSAUDIT, there is a program called SAMPLEAPI. This program will execute every report in. These dates are then used in submitting all of the reports. Then it will load the entire database. After the loads have completed, all of the reports will be run. You can modify this source to submit just the reports that your organization needs.

API Default Cross Reference Values

The API Default Cross Reference Value list displays all of the System Auditing and Reporting Reports, with corresponding parameter defaults, that can be processed using the STRAAAPI command.

API Cross Reference

The cross reference list is as follows:

| Report Name | Library/ | From_Date | To_Date | Percent/ | Print Det | | | | |
|-------------|-------------------------------|--------------|------------|-----------|-----------|-------|---------|-------|-------|
| API-REPORT | Profile | API-FROMDATE | API-TODATE | Count Var | API-PRINT | PRINT | Dscrptn | Menu | Op |
| ----- | API-LIBRARY | ----- | ----- | ----- | ----- | ----- | ----- | ----- | ----- |
| AACL11 | Load Object & Library Databa | *ALL | | | | | AALOAD | 02 | |
| AACL14 | Load File Information Databa | *ALL | | | | | AALOAD | 03 | |
| AACL16 | Programs That Adopt Authorit | Q* | | | | | AASEC4 | 05 | |
| AACL18 | Load File, Object & Library D | *ALL | | | | | AALOAD | 01 | |
| AACL21 | Reset Object Usage Counts | QGPL | | | | | AALOAD | 05 | |
| AACL24 | Grant Authority To Auto Audi | QPGMR | | | | | AASYSM | 06 | |
| AACL25 | Revoke Authority From Auto A | QPGMR | | | | | AASYSM | 07 | |
| AACL28AD | Object Auditing Attribute Ch | *PRVMS | *PRVME | | | | AASEC6 | 10 | |
| AACL28AF | All Authority Failures | *PRVMS | *PRVME | | | | AASECM | 01 | |
| AACL28AP | Obtaining Adopted Authority | *PRVMS | *PRVME | | | | AASECM | 10 | |
| AACL28CA | Changes To Object Authority | *PRVMS | *PRVME | | | | AASECM | 02 | |

| | | | | | | |
|----------|--------------------------------------|---------|--------|--------|--------|----|
| AACL28CC | Command Usage by Command | *ALL | *PRVMS | *PRVME | AASEC4 | 02 |
| AACL28CD | Command Usage by User | QSECOFR | *PRVMS | *PRVME | AASEC4 | 01 |
| AACL28CO | Created Objects | | *PRVMS | *PRVME | AASECM | 12 |
| AACL28CP | Any Action To User Profiles | | *PRVMS | *PRVME | AASEC6 | 01 |
| AACL28CP | Any Action To User Profiles | | *PRVMS | *PRVME | AASEC3 | 02 |
| AACL28CP | Any Action To User Profiles | | *PRVMS | *PRVME | AASECM | 03 |
| AACL28CQ | Change Of *CRQD Object | | *PRVMS | *PRVME | AASEC5 | 03 |
| AACL28DB | Database Server requests | | *PRVMS | *PRVME | AASEC9 | 07 |
| AACL28DD | DDM Request Access | | *PRVMS | *PRVME | AASEC9 | 03 |
| AACL28DO | All Delete Operations | | *PRVMS | *PRVME | AASECM | 09 |
| AACL28DS | DST Security Officer Passwor | | *PRVMS | *PRVME | AASEC4 | 03 |
| AACL28D2 | All Deleted Office Documents | | *PRVMS | *PRVME | AASEC7 | 01 |
| AACL28FT | FTP Logon and server request | | *PRVMS | *PRVME | AASEC9 | 01 |
| AACL28FT | FTP Logon and server request | | *PRVMS | *PRVME | AASEC3 | 06 |
| AACL28GS | Descriptors Given | | *PRVMS | *PRVME | AASEC5 | 15 |
| AACL28IP | Interprocess Communications | | *PRVMS | *PRVME | AASECM | 14 |
| AACL28JD | Changes to the USER of a JOB | | *PRVMS | *PRVME | AASEC6 | 05 |
| AACL28JS | Actions That Affect Jobs | | *PRVMS | *PRVME | AASEC6 | 06 |
| AACL28LD | Link, Unlink, Lookup Direct | | *PRVMS | *PRVME | AASEC7 | 02 |
| AACL28ML | Office Services Mail Actions | | *PRVMS | *PRVME | AASEC7 | 03 |
| AACL28NA | Changes To Network Attribute | | *PRVMS | *PRVME | AASEC5 | 02 |
| AACL28NA | Changes To Network Attribute | | *PRVMS | *PRVME | AASEC6 | 03 |
| AACL28NA | Changes To Network Attribute | | *PRVMS | *PRVME | AASECM | 07 |
| AACL28ND | APFN Dir Search Filter Viola | | *PRVMS | *PRVME | AASEC5 | 04 |
| AACL28NE | APFN End Point Filter Violat | | *PRVMS | *PRVME | AASEC5 | 05 |
| AACL28NP | Network Print Server - entry | | *PRVMS | *PRVME | AASEC9 | 12 |
| AACL28NS | Network Print Server - Splf | | *PRVMS | *PRVME | AASEC9 | 13 |
| AACL28OM | Object Move or Rename | | *PRVMS | *PRVME | AASECM | 13 |
| AACL28OR | Object Restore | | *PRVMS | *PRVME | AASEC2 | 06 |
| AACL28OW | Changes To Object Ownership | | *PRVMS | *PRVME | AASECM | 04 |
| AACL28PA | Changes to Programs | | *PRVMS | *PRVME | AASEC5 | 05 |
| AACL28PF | File Server requests | | *PRVMS | *PRVME | AASEC9 | 06 |
| AACL28PG | Change of an Objects Primary | | *PRVMS | *PRVME | AASEC7 | 06 |
| AACL28PO | Printed Output | | *PRVMS | *PRVME | AASEC8 | 01 |
| AACL28PS | Profile Swap | | *PRVMS | *PRVME | AASEC3 | 03 |
| AACL28PV | Original Virtual Print Svr r | | *PRVMS | *PRVME | AASEC9 | 11 |
| AACL28FW | Passwords Used That Are Not | | *PRVMS | *PRVME | AASEC3 | 01 |
| AACL28QQ | Data Queue Server - original | | *PRVMS | *PRVME | AASEC9 | 09 |
| AACL28RQ | Remote SQL Server requests | | *PRVMS | *PRVME | AASEC9 | 08 |
| AACL28RA | Restore Objects When Author. | | *PRVMS | *PRVME | AASEC2 | 04 |
| AACL28RC | Remote Cmd/Distributed Pgm C | | *PRVMS | *PRVME | AASEC9 | 05 |
| AACL28RJ | Restore JOB that Contain Pr | | *PRVMS | *PRVME | AASEC2 | 02 |
| AACL28RO | Restore Objects When Owners | | *PRVMS | *PRVME | AASEC2 | 03 |
| AACL28RP | Restore Programs That Adopt | | *PRVMS | *PRVME | AASEC2 | 01 |
| AACL28RQ | Restore a *CRQD Object | | *PRVMS | *PRVME | AASEC2 | 07 |
| AACL28RU | Restore Author. for User Pro | | *PRVMS | *PRVME | AASEC2 | 05 |
| AACL28RZ | Changing a Primary Grp - Res | | *PRVMS | *PRVME | AASEC2 | 08 |
| AACL28SD | System Distributn Directory | | *PRVMS | *PRVME | AASEC5 | 06 |
| AACL28SE | Subsystem Routing Changes | | *PRVMS | *PRVME | AASEC6 | 04 |
| AACL28SE | Subsystem Routing Changes | | *PRVMS | *PRVME | AASECM | 08 |
| AACL28SF | Actions to Spool Files | | *PRVMS | *PRVME | AASEC8 | 02 |
| AACL28SM | System Management Changes | | *PRVMS | *PRVME | AASEC6 | 07 |
| AACL28ST | Use of Service Tools | | *PRVMS | *PRVME | AASECM | 11 |
| AACL28SU | All Security Reports for a U QSECOFR | | *PRVMS | *PRVME | AASEC4 | 04 |
| AACL28SV | Changes To System Values | | *PRVMS | *PRVME | AASEC5 | 01 |
| AACL28SV | Changes To System Values | | *PRVMS | *PRVME | AASEC6 | 02 |
| AACL28SV | Changes To System Values | | *PRVMS | *PRVME | AASECM | 06 |
| AACL28TC | TCP Signon Server requests | | *PRVMS | *PRVME | AASEC9 | 02 |
| AACL28TF | Transfer Function Server req | | *PRVMS | *PRVME | AASEC9 | 04 |
| AACL28VA | Access Control List (ACL) Ch | | *PRVMS | *PRVME | AASEC5 | 13 |
| AACL28VC | Starting or Ending a Connect | | *PRVMS | *PRVME | AASEC5 | 08 |

| Report Name | Report Title | Library/ Profile | From Date | To Date | Percent/ Count Var | Print Det | API-PRINT | PRINT | Descrptn | Menu | Op |
|-------------|------------------------------|---------------------|--------------|------------|-----------------------|-----------|-----------|-------|----------|------|-----------|
| API-REPORT | | API-LIBRARY | API-FROMDATE | API-TODATE | API-COUNT | | | | | | |
| AACL28VF | Closing Server Files | | *PRVMS | *PRVME | | | | | | | AASEC5 07 |
| AACL28VL | Account Limits Exceeded | | *PRVMS | *PRVME | | | | | | | AASEC5 14 |
| AACL28VN | Logging On and Off the Netwo | | *PRVMS | *PRVME | | | | | | | AASEC5 09 |
| AACL28VP | Network Password Error | | *PRVMS | *PRVME | | | | | | | AASEC3 05 |
| AACL28VR | Network Resource Access | | *PRVMS | *PRVME | | | | | | | AASEC3 04 |
| AACL28VR | Network Resource Access | | *PRVMS | *PRVME | | | | | | | AASEC5 10 |
| AACL28VS | Starting or Ending a Server | | *PRVMS | *PRVME | | | | | | | AASEC5 11 |
| AACL28VU | Network Profile Changes | | *PRVMS | *PRVME | | | | | | | AASEC6 08 |
| AACL28VU | Network Profile Changes | | *PRVMS | *PRVME | | | | | | | AASEC5 12 |
| AACL28VV | Service Status Changes | | *PRVMS | *PRVME | | | | | | | AASEC6 09 |
| AACL28YC | DLO Accessed (Changed) | | *PRVMS | *PRVME | | | | | | | AASEC7 04 |
| AACL28YR | DLO Accessed (Read) | | *PRVMS | *PRVME | | | | | | | AASEC7 05 |
| AACL28ZC | Objects Accessed (Changed) | | *PRVMS | *PRVME | | | | | | | AASEC4 07 |
| AACL28ZQ | Data Queue Server - optimize | | *PRVMS | *PRVME | | | | | | | AASEC9 10 |
| AACL28ZR | Objects Accessed (Read) | | *PRVMS | *PRVME | | | | | | | AASEC4 08 |
| AACL31LA | Library Authority | *ALL | | | | | | | | | ALIBM 02 |
| AACL31LL | Library Analysis By Library | *ALL | | | | | | | | | ALIBM 01 |

| | | | | | | | | | | |
|-------------|------------------------------|-------------|--------------|------------|-----------|-----------|---------------|---------|--------|-----|
| AACL32CF | Changed Files | *ALL | *PRVMS | *PRVME | | | | | AAFILM | 08 |
| AACL32FC | File Usage | *ALL | | | | | | | AAFILM | 02 |
| AACL32FJ | Journalled Files | *ALL | *PRVMS | | | | | | AAFILM | 10 |
| AACL32FL | Largest Files (Members) | *ALL | | | 010 | | | | AAFILM | 03 |
| AACL32FR | Files Needing Reorganization | *ALL | | | 101 | N | SbmRgz: Y/N | | AAFILM | 01 |
| AACL32NF | New Data Files | *ALL | *PRVMS | *PRVME | | | | | AAFILM | 07 |
| AACL32NS | New Source Files | *ALL | *PRVMS | *PRVME | | | | | AAFILM | 06 |
| AACL32GC | Source Member Changes | *ALL | *PRVMS | *PRVME | | N | PrtDtl: Y/N | | AAFILM | 04 |
| AACL33AL | Commands Allowed For Limited | *ALL | | | | | | | AAOBJ2 | 07 |
| AACL33CA | Objects being Audited | *ALL | | | | | | | AASEC4 | 06 |
| AACL33CO | Changed Objects | *ALL | | | | | | | AAOBJM | 14 |
| AACL33DC | Device Configuration Changes | | *PRVMS | *PRVME | | | | | AA400M | 09 |
| AACL33FA | File Authority | QGPL | | | | | | | AAFILM | 09 |
| AACL33NL | New Libraries | *ALL | *PRVMS | *PRVME | | | | | AALIBM | 04 |
| AACL33OA | Object Authority by Object | QGPL | | | | | | | AAOBJM | 11 |
| AACL33OC | Object Usage | QGPL | *PRVMS | | | | | | AAOBJM | 10 |
| AACL33OD | Damaged Objects | *ALL | | | | | | | AAOBJM | 03 |
| AACL33OL | Largest Objects | *ALL | | | 050 | | | | AAOBJM | 07 |
| AACL33OM | Missing Object Source | QGPL | | | | | | | AAOBJM | 09 |
| AACL33ON | New Objects | *ALLALIB | *PRVMS | *PRVME | | | | | AAOBJM | 01 |
| AACL33OO | Object Counts By Owner | *ALL | | | | D | PrtDtl: D/S/B | | AAOBJM | 04 |
| AACL33OP | Object Source | QGPL | | | | | | | AAOBJM | 08 |
| AACL33OR | Restored Objects | *ALL | *PRVMS | *PRVME | | | | | AAOBJM | 02 |
| AACL33OS | Object Counts By System Name | *ALL | | | | S | PrtDtl: D/S/B | | AAOBJM | 05 |
| AACL33OU | Unsaved Objects | *ALL | *PRVMS | *PRVME | | | | | AAOBJM | 06 |
| AACL33O2 | Object Authority by User | *ALL | | | | | | | AAOBJM | 12 |
| AACL49 | Libraries Currently in Use | | | | | | | | AALIBM | 05 |
| AACL7701 | System Values | | | | | | | | AA400M | 01 |
| AACL7702 | Programs that Adopt QSECOFR | | | | | | | | AAOBJ2 | 01 |
| AACL7703 | Network Attributes | | | | | | | | AA400M | 04 |
| AACL7704 | Libraries with Authority Gra | | | | | | | | AALIBM | 06 |
| AACL7705 | Libraries in Order of Last S | | | | | | | | AALIBM | 07 |
| AACL7706 | Authority Lists and Specific | | | | | | | | AAOBJ2 | 04 |
| AACL7707 | Authorization Lists (Exclude | | | | | | | | AAOBJ2 | 05 |
| AACL7708 | Job Descriptions and Authori | | | | | | | | AAOBJ2 | 06 |
| AACL7709 | Output Queues and Parameters | | | | | | | | AA400M | 12 |
| AACL7710 | Object Author for Sensitive | | | | | | | | AAOBJ2 | 03 |
| AACL7711 | Objects Owned by QSECOFR | | | | | | | | AAOBJ2 | 02 |
| AACL7712 | System Status | | | | | | | | AA400M | 05 |
| AACL7713 | Disk Status | | | | | | | | AA400M | 06 |
| AACL7714 | Active Jobs | | | | | | | | AA400M | 07 |
| AACL7715 | Local Hardware | | | | | | | | AA400M | 08 |
| AACL7716 | Configuration | | | | | | | | AA400M | 10 |
| AACL7717 | Configuration Status of Cont | | | | | | | | AA400M | 11 |
| AACL7718 | User Profile = Password | | | | | | | | AAUSR2 | 05 |
| AACL80UA | Group Profiles | *ALL | | | | | | | AAUSR1 | 01 |
| AACL80UB | User Profile Parameter Analy | *ALL | | | | | | | AAUSR1 | 02 |
| AACL80UC | User Profile Password Exp no | *ALL | | | | | | | AAUSR1 | 03 |
| AACL80UD | User Profile Multiple Group | *ALL | | | | | | | AAUSR2 | 01 |
| AACL80UE | User Profile Last Sign-on Da | *ALL | | | | | | | AAUSR2 | 02 |
| AACL80UF | User Pro Pass *NONE/*DISABLE | *ALL | | | | | | | AAUSR2 | 03 |
| AACL80UG | User Profile Password Change | *ALL | | | | | | | AAUSR2 | 04 |
| AACL80UJ | User Profile Limit *NO *PART | *ALL | | | | | | | AAUSR2 | 06 |
| AACL80UK | User Pro Limit Device Sessio | *ALL | | | | | | | AAUSR2 | 07 |
| AACL80UL | User Profile Obj Aud Values | *ALL | | | | | | | AAUSR2 | 08 |
| AACL80UM | All User Profiles Special Au | *ALL | | | | | | | AAUSR2 | 09 |
| AACL80UN | Users Special Auth/Exclude * | *ALL | | | | | | | AAUSR2 | 10 |
| AACL80U1 | User Profile Authoritative I | *ALL | | | | | | | AAUSR1 | 04 |
| AACL80U2 | User Profile Environment Inf | *ALL | | | | | | | AAUSR1 | 05 |
| AACL80U3 | User Profiles without Limite | *ALL | | | | | | | AAUSR1 | 06 |
| AACL80U4 | User Profiles SECADM SECOFR | *ALL | | | | | | | AAUSR1 | 07 |
| AACL80U5 | User Profiles *DISABLED | *ALL | | | | | | | AAUSR1 | 08 |
| AACL80U6 | User Profile with Expired Pa | *ALL | | | | | | | AAUSR1 | 09 |
| AACL80U7 | User Profiles Initial Progra | *ALL | | | | | | | AAUSR1 | 10 |
| Report Name | | Library/ | From Date | To Date | Percent/ | Print Det | | | | |
| API-REPORT | Report Title | Profile | API-FROMDATE | API-TODATE | Count Var | API-PRINT | PRINT | Dscrptn | Menu | Op |
| ----- | ----- | API-LIBRARY | ----- | ----- | API-COUNT | ----- | ----- | ----- | ----- | --- |
| AACL80U8 | Users Profiles Not Used | *ALL | | | 060 | | | | AAUSR1 | 11 |
| AACL80U9 | Last Signon Date/Time | Q* | | | | | | | AAUSR1 | 12 |
| AACL90CU | PSAudit Check-Up | | | | | 2 | 1=All 2=Thres | | AASUMM | 05 |
| AACL90RC | Security Recommendations | | | | | | | | AASUMM | 02 |
| AACL90SA | Security Administrator Audit | | | | | | | | AASUMM | 03 |
| AACL90SC | Summary of System Changes | | *PRVMS | *PRVME | | | | | AASUMM | 01 |
| * * * | E N D O F R E P O R T | * * * | | | | | | | | |

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Submittal Window Prompts

Upon selection on a menu option, a job submittal window will appear on which you can specify the Library, User Profile, Command or System Name, depending on what is relevant to the report.

```
PA151          PentaSafe Security Technologies, Inc  ARP          Date: 9/29/00
                General Security                      PSAudit Submittal Window

Select one of the following:

 1 All Authority Failures
 2 Changes To Object Authority
 3 Crt, Chg, Restore of User P
 4 Changes To Object Ownership
 5 Pgms Changed to Adopt Owner
 6 Changes To System Values
 7 Changes to Network Attribut
 8 Changes to Subsystem Routin
 9 All Delete Operations
10 Obtaining Adopted Authority
11 Use of Service Tools
12 Created Objects
13 Object Move or Rename

Enter Option or Function/Type

F1=Help      F3=Exit
F12=Previous F13=Attention
```

```
All Authority Failures

From date . . . . . 060500 MDY
To date . . . . . 060500 MDY

Filter name. . . . . DEFAULT

Output file, *NONE . . FILE
Library . . . . . ROHAN
*Replace *Add records. *REPLACE
Run interactively. . . *NO (*YES-*NO)
Journal File . . . . *NONE
Journal Library . . .
OUTQ . . . . . QPRINT
JOBQ . . . . . QBATCH
Hold on job queue . . *NO (*YES-*NO)

Enter=Submit F3=Exit F7=Schedule F9=Filter
```

If the submittal window prompts for a LIBRARY name (*ALL/Gen*/*USRLIBL/Lib), the following are permissible values:

- *ALL** All the libraries in the system, including QSYS are searched
- Gen*** Specify the generic library name of the libraries that are searched. A generic name is a character string of one or more characters followed by an asterisk (*).
- *USRLIBL** Only the libraries listed in the user portion of the job's library list are searched
- Lib** Specify the name of the library to be searched

If the submittal window prompts for a USER PROFILE name (User Profile/Gen*/
*ALL), the following are permissible values:

- User Profile** Specify the name of the user profile to be searched
- Gen*** Specify the generic name of the user profile to be searched. A generic name is a character string of one or more characters followed by an asterisk (*).
- *ALL** All user profiles are searched

If the submittal window prompts for a DATE, DATE FILTER or DATE RANGE, the following are permissible values.

- ***CURMS** - Current month's starting date
- ***CURR** - Current date
- ***PRVDY** - Previous day's date
- ***PRVME** - Previous month's ending date
- ***PRVMS** - Previous month's starting date
- ***PRVWK** - Previous week's starting date (last 7 days)

From Date - Specifies the "from" date of a date range and allows the same special values as the "Date" prompt.

To Date - Specifies the "to" date of a date range and allows the same special values as the "Date" prompt.

Reload Database Before - Specifies whether to reload the database file required for input to run the specified report.

Query to Filter Data - Specifies the name of the query filter to use for selection criteria before running the report.

Output File, *NONE - Specifies the name of the output file to contain the same data that is printed on the report. This file will be created in the specified library, if it does not exist. You may run your own queries against files created using this prompt.

Library - This is the name of the output file's library.

***Replace *Add Records** - Specifies whether records will be replaced or added in the output file.

Run Interactively - Specifies whether the report will be run interactively or submitted to batch. Specify *YES to run interactively (on-line) or *NO to submit to batch. Warning: some reports may run a long time.

Journal File

***NONE** Use the QAUDJRN to run the security reports.

File The file name to be used instead of the QAUDJRN.

Note

The file must be TYPE4 Outfile created by the DSPJRN command.

Journal Library

Name The library where the journal data is stored.

Last Database Load - Displays the date of the previous load of the database file required for input to run the report.

OUTQ - Specifies the name of the output queue to which reports will be routed. This output queue should be secured to protect the sensitive nature of some of the reports.

Note

Ensure that the current library list contains the library in which the OUTQ exists.

JOBQ - Specifies the name of the job queue to which jobs are submitted when the “Run interactively” prompt specifies *NO.

Caution

Ensure that the current library list contains the library in which the JOBQ exists.

Hold on Job Queue - Specifies whether batch jobs are to be submitted and held in the job queue. Specify *YES to submit and hold the job, which must be released so that it may become active.

Function Keys

- Enter=Submit** - Processes requested options (if any). If no options are selected, the program is ended.
- F3=Exit** - Ends the current task and returns to the display from which the task was started. Any information not sent to the system is lost.
- F7=Schedule** - Displays the Add Job Schedule Entry (ADDJOBSCDE) prompt, which allows you to schedule batch jobs by adding an entry to the job schedule. You can schedule a batch job to be submitted once, or to schedule a batch job to be submitted at regular intervals. If the job is already scheduled, the Change Job Schedule Entry (CHGJOBSCDE) prompt is displayed.
- F9=Filter** - Displays the “Select Query to Work With” panel, from which a query filter can be selected or added.

Submittal Window for Security Reports

The submittal window for security reports offer 2 additional field options.

PA151

PentaSafe Security Technologies

CAS

Date: 6/30/00

General Security

PSAudit Submittal Window

Select one of the following:

1 All Authority Failures

2 Changes To Object Authority

3 Crt, Chg, Restore of User P

4 Changes To Object Ownership

5 Pgms Changed to Adopt Owner

6 Changes To System Values

7 Changes to Network Attribut

8 Changes to Subsystem Routin

9 All Delete Operations

10 Obtaining Adopted Authority

11 Use of Service Tools

12 Created Objects

13 Object Move or Rename

Enter Option or Function/Type

F1=Help

F3=Exit

F12=Previous

F13=Attention

Changes To Object Authority

From date 121299 MDY

To date 063000 MDY

Filter name. DEFAULT

Output file, *NONE . . *NONE

Library

*Replace *Add records. *REPLACE

Run interactively. . . *NO (*YES-*NO)

Journal File *NONE

Journal Library . . .

OUTQ QPRINT

JOBQ QBATCH

Hold on job queue . . *NO (*YES-*NO)

Enter=Submit F3=Exit F7=Schedule F9=Filter

Journal File

***NONE** Use the system journal to produce the report (default).

Name Specify the Type 4 file name to be used to run the report.

Journal Library

Library The name of the library where the journal file resides.

Chapter 13

System Access Analysis

Overview

System Access Analysis is a menu driven product designed to capture and report all details of a user's activity on the iSeries system, and report on the activities. It can save many man hours in tracking and documenting system activities.

System Access Analysis provides summary information of interactive and batch jobs executed by users that are being logged. The detail of each job can be viewed on-line and printed. This detail can include all access attempts, requests, commands, and command messages. For more information, see "Option 1 Access Logged Data" on page 314.

On systems that contain many users and/or very active users, the Security Officer is often concerned about what is actually being done and by whom. System Access Analysis enables the Security Officer to efficiently track and document user activity.

The System Access Analysis easy-to-use menu contains functions for accessing and purging logged data, maintaining users/workstations to be logged, starting and ending subsystem, restoring logged data, reporting, maintaining users access authority, and select/omit processing.

Main Menu

The System Access Analysis Main Menu enables the System Administrator to access all of the features of the product.

| | | | |
|-----|--------------------------------------|------------|----------------|
| PA2 | PentaSafe Security Technologies, Inc | SGS | Date: 9/29/00 |
| | System Access Analysis | QPADEV000V | Time: 13:43:37 |

Select one of the following:

- 1 Access Logged Data
- 2 Purge Logged Data
- 3 Users/Workstations To Be Logged
- 4 Start Batch Monitor (STRSBS ZALOG)
- 5 End Batch Monitor (ENDSBS ZALOG)
- 6 Restore Purged Data
- 7 System Access Report
- 8 Maintain Users Access Authority
- 9 Select/Omit Processing
- 10 Work With ZALOG Subsystem Jobs
- 11 Configure SAA for Interactive Jobs
- 12 Uninstall System Access Analysis

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Option 1 Access Logged Data

This option enables you to enter selection criteria for viewing job logs. For more information, see “Option 1 Access Logged Data” on page 314.

Option 2 Purge Logged Data

This option enables you to remove the logged data prior to a specific day, as well as the ability to save the data to tape. For more information, see “Option 2 Purge Logged Data” on page 320.

Option 3 Users/Workstations to be Logged

This option enables you to modify user logging criteria. For more information, see “Option 3 Users/Workstations to be Logged” on page 322.

Option 4 Start Monitor (STRSBS ZALOG)

This option starts the monitoring subsystem ZALOG. For more information, see “Option 4 Start Monitor (STRSBS ZALOG)” on page 326.

Option 5 End Monitor (ENDSBS ZALOG *IMMED)

This option terminates the monitoring subsystem ZALOG. For more information, see “Option 5 End Monitor (ENDSBS ZALOG *IMMED)” on page 327.

Option 6 Restore Purged Data

This option enables you to restore logged data that was previously saved to tape by the Purge Logged Data process. For more information, see “Option 6 Restore Purged Data” on page 328.

Option 7 System Access Report

This option enables you to enter selection criteria for printing a summary report of user accesses to the system. For more information, see “Option 7 System Access Report” on page 329.

Option 8 Maintain Users Access Authority

This option enables you to control a user’s authority to Access Analysis. For more information, see “Option 8 Maintain Users Access Authority” on page 335.

Option 9 Select/Omit Processing

This option allows you to enter criteria which can be used when viewing and printing the detail of logged jobs. For more information, see “Option 9 Select/Omit Processing” on page 336.

Option 10 Work With ZALOG Subsystem Jobs

Displays active jobs for active subsystem ZALOG. If subsystem is inactive, the message “Subsystem ZALOG not active.” is displayed. For more information, see “Option 10 Work With ZALOG Subsystem Jobs” on page 337.

Option 11 Configure SAA for Interactive Jobs

This option changes the SIGNOFF, ENDPASTHR, and ENDJOB commands in the library selected. SAA does not change the functions of these commands, and the program will log the activities of the interactive users when their jobs end. For more information, see “Option 11 Configure SAA for Interactive Jobs” on page 338.

Option 12 Uninstall System Access Analysis

Ends the ZALOG subsystem and removes the SAA programs from the SIGNOFF, ENDPASTHR, and ENDJOB commands. For more information, see “Option 12 Uninstall System Access Analysis” on page 340.

Option 1 Access Logged Data

System Access Analysis allows you to list the jobs and view the detail job logs.

To access logged data, specify the selection criteria on the System Access Analysis Access Screen. This is followed by the User Log Selection Panel which displays all jobs which meet the selection criteria and the select/omit options, if applicable.

Access Screen

This panel allows you to specify the criteria for viewing job logs. Options available include viewing sequence, type of job, user and workstation, date/time range, and whether to use additional select/omit options. There are also options for printing which include the output-queue name and hold options.

| | | | |
|--------------------------------|--------------------------------|-----------------------|----------------------------|
| ALDF01 | System Access Analysis | 14:49:53 | 6/01/99 |
| Select the viewing sequence: | <u>1</u> | 1 DATE | 2 USER 3 JOB (WORKSTATION) |
| Print detail (on report): | <u>*YES</u> | (*YES *NO) | |
| Type of job: | <u>I</u> | A All | I Interactive B Batch |
| Select a Job: | <u>*ALL</u> | JOB or Gen* (WORKSTN) | |
| Select a User: | <u>*ALL</u> | USER or Gen* or *ALL | |
| Beginning and ending date: | beg> <u>*PRVMS</u> | end> <u>*CURMS</u> | (format) MDY |
| | (or *PRVMS, *PRVME, *CURMS...) | | |
| Beginning and ending time: | beg> <u>*ALL</u> | end> _____ | 24/hr clock |
| Use select/omit when viewing: | <u>*YES</u> | (*YES *NO) | |
| OUTQ for printed job: | <u>QPRINT</u> | | |
| Hold output on queue: | <u>*NO</u> | (*YES *NO) | |
| Batch JOBQ for submitted jobs: | <u>QBATCH</u> | | |
| Hold on job queue: | <u>*NO</u> | (*YES *NO) | |
| F3=Exit | | | |

Select the Viewing Sequence - Specify the order by which the job log summary entries will be sorted.

Print Detail - Specify * YES to display or print the actual job log for jobs selected from the User Log Selection panel.

Type of Job - Specify the type of jobs you want to select.

- A** All (Both Interactive and Batch jobs)
- I** Interactive jobs only
- B** Batch jobs only

Select a Job - Specifies the name or generic name of the jobs for which to view the job logs.

- *ALL** All jobs
- General** Specify the generic name of the job
- Job** Specify the name of the job

Select a User - Specifies the name or generic name of the user profiles for which to view the job logs.

- *ALL** All user profiles
- Gen*** Specify the generic name of the user profile
- USER** Specify the name of the user profile

Beginning and Ending Date - Specify a date range to list only those jobs which were started during the specified dates.

Beginning and Ending Time - Specify the time range to list only those jobs which were started during the specified times.

- *PRVMS** Previous month start
- *PRVME** Previous month end
- *CURR** Current date
- *CURMS** Current month start
- *PRVWK** Previous week
- *PRVDY** Previous day

Use Select/Omit When Viewing - Specify whether the select/omit processing selections will be applicable when viewing or printing the job log summary and detail information.

OUTQ for Printed Job - Specify the name of the output queue where a printed job is to be placed.

Hold Output on Queue - Specify whether to hold the printed output on the output queue.

Batch JOBQ for Submitted Jobs - Specify the batch job queue to use for printing job logs for all jobs shown on the User Log Selection panel.

Hold on Job Queue - Specify * YES to submit the job and hold it in the job queue. The jobs on hold must be released to produce the printed output.

User Log Selection Panel

This screen displays all jobs which meet the selection criteria as well as the select/omit options. If select/omit processing is being used, the information of each job, when being viewed or printed, will reflect the select/omit criteria.

| | | | | | | | |
|---|-------------|-------------------------------|----------------------------|-----------------------------------|--------------------------|----------|-------------|
| 6/01/99 | | DISPLAY USER LOGS - SELECTION | | | | ALRP09 | |
| Sequence: DATE | | | | Begin Date/Time: 5/01/99 00:00:00 | | | |
| User: *ALL | | | | End Date/Time: 6/01/99 23:59:59 | | | |
| Job: *ALL | | | | | | | |
| <u>Job</u> | <u>User</u> | <u>Job No</u> | <u>Start Date and Time</u> | | <u>End Date and Time</u> | | <u>Type</u> |
| = QPADEV0031 | CMJ | 362911 | 05/18/99 | 08:04:22 | 05/18/99 | 11:46:49 | I |
| - QPADEV0036 | CMJ | 362926 | 05/18/99 | 08:20:02 | 05/18/99 | 08:24:04 | I |
| - QPADEV0036 | CMJ | 362932 | 05/18/99 | 08:24:16 | 05/18/99 | 14:08:52 | I |
| - QPADEV0031 | CMJ | 362970 | 05/18/99 | 09:34:13 | 05/18/99 | 09:34:25 | I |
| - QPADEV0031 | CMJ | 363037 | 05/18/99 | 13:32:40 | 05/18/99 | 14:07:01 | I |
| - QPADEV0031 | CMJ | 363042 | 05/18/99 | 14:07:05 | 05/18/99 | 15:58:28 | I |
| - QPADEV0036 | CMJ | 363044 | 05/18/99 | 14:08:11 | 05/18/99 | 14:08:17 | I |
| - QPADEV0031 | CMJ | 363051 | 05/18/99 | 14:31:33 | 05/18/99 | 14:31:58 | I |
| - QPADEV0031 | CMJ | 363052 | 05/18/99 | 14:37:28 | 05/18/99 | 15:58:54 | I |
| - QPADEV0023 | CMJ | 363067 | 05/18/99 | 15:58:24 | 05/18/99 | 16:07:28 | I |
| - QPADEV0009 | CMJ | 363072 | 05/18/99 | 16:36:20 | 05/18/99 | 16:50:20 | I |
| - QPADEV0023 | CMJ | 363081 | 05/18/99 | 16:50:16 | 05/18/99 | 17:50:15 | I |
| - QPADEV0009 | CMJ | 363084 | 05/18/99 | 16:51:31 | 05/18/99 | 17:50:10 | I |
| - QPADEV0041 | CMJ | 364630 | 05/25/99 | 08:07:23 | 05/25/99 | 08:19:48 | I |
| - QPADEV0041 | CMJ | 364653 | 05/25/99 | 08:20:53 | 05/25/99 | 08:24:18 | I |
| - QPADEV0041 | CMJ | 364656 | 05/25/99 | 08:24:54 | 05/25/99 | 08:25:05 | I |
| - QPADEV0082 | CMJ | 364819 | 05/25/99 | 15:42:11 | 05/25/99 | 15:46:15 | + |
| 5=Detail 8=Print F3=Exit F5=Refresh F6=Print All F12=Previous | | | | | | | |

Job - For interactive jobs (Type 'I'), this is the workstation name where the job occurred. For batch jobs, this is the name of the submitted job.

User - The user that initiated the job.

Job Number - The system assigned number which uniquely identifies a job on the system.

Start Date and Time - The date and time at which the job was started.

End Date and Time - The date and time at which the job ended.

Type - The classification of the job.

I Interactive

B Batch

Function keys

5 = Detail - Displays the job log detail of a specific job according to the select/omit options, if applicable.

8 = Print - Prints the job log detail of a specific job according to the select/omit options, if applicable. For more information, see Reporting.

F3 = Exit - Returns to the System Access Analysis Main Menu.

F5 = Refresh - Updates the displayed information.

F6 = Print All - Prints the detail information for all the jobs which appear on the User Log Selection screen. If using the select/omit processing, the detail information will reflect the options.

F12 = Previous - Returns to the System Access Analysis Access Screen.

Access Analysis Report

This detail report is printed from the User Log Selection Panel, using either Option 8 to print individual job or F6 to print for all jobs, (if ‘*YES’ is specified on prompt for ‘Print Detail (on report)’). The User Log Selection Panel is accessed from the Main Menu by taking option 1, then pressing **ENTER**.

| SYSTEM ACCESS ANALYSIS | | | | | | | | | | SYSTEM: | ISIS |
|---|-------------|-----|----------|----------|----------|---------|------|--------|---------|------------------|-------------------|
| ALRP15 | | | | | | | | | | RUN DATE: | 2/1 |
| SELECTED JOB: QPADEV000D RPD | | | | | | | | | | RUN TIME: | 13:3 |
| 523430 | | | | | | | | | | | |
| ----- L O G ----- | | | | | | | | | | | |
| 5769SS1 V5R1M0 980729 Display Job Log | | | | | | | | | | ISIS | 01/16/01 17:38:44 |
| Job name : QPADEV000D User : RPD | | | | | | | | | | Number | 523430 |
| Job description : QDFTJORD Library : QGPL | | | | | | | | | | | |
| MSGID | TYPE | SEV | DATE | TIME | FROM PGM | LIBRARY | INST | TO PGM | LIBRARY | | |
| CPF1124 | Information | 00 | 01/16/01 | 15:32:31 | QWTFIIPP | QSYS | 05DF | *EXT | | | |
| Message : Job 523430/RPD/QPADEV000D started on 01/16/01 at 15:32:31 | | | | | | | | | | | |
| in subsystem QINTER in QSYS. Job entered system on 01/16/01 at 15:32:31. | | | | | | | | | | | |
| 01/16/01 15:32:35 QUICMD QSYS 03EF QUICMD QSYS | | | | | | | | | | | |
| *NONE | Request | | | | | | | | | | |
| Message : -wrkmbrpdm | | | | | | | | | | | |
| 01/16/01 16:23:54 QPTCHECK | | | | | | | | | | *N | QUICMD QSYS |
| *NONE | Request | | | | | | | | | | |
| Message : -CHGJOB LOG(4 00 *SECLVL) LOGCLPGM(*YES) | | | | | | | | | | | |
| 01/16/01 16:24:09 QUICMD QSYS 03EF QUICMD QSYS | | | | | | | | | | | |
| *NONE | Request | | | | | | | | | | |
| Message : -psmenu | | | | | | | | | | | |
| 01/16/01 16:24:11 QCADRV QSYS 01A6 MSCL100 PSCOMMON | | | | | | | | | | | |
| Message : 2900 - RTVDTAARA DTAARA (PSCLIB (1 10)) RTNVAR(&PSCLIB) | | | | | | | | | | | |
| F3=Exit F12=Cancel F19=Left F20=Right F24=More keys | | | | | | | | | | | |

This report displays all job log information. This produces the same report as the ALOGPRT command.

Option 2 Purge Logged Data

This option enables you to save the information to tape and remove data from the log history.

```
ALDF05          System Access Analysis Save and Purge  08:59:50   8/02/01

SAVE logged data before purge? . . . . . N   ( Y or N )
If YES - enter your device here. . . . . _____

ALL Logged Information BEFORE Date Entered will be Purged. .  80201

NOTE: This process will be done Interactively

-----
If you want to do it in the Batch environment, use the command:
CALL FGM(PSAUDIT/ALC30) PARM('device''080201')  Enclose DEVICE and date
in single quotes

See sample source code in PSAUDIT/SOURCEAL MBR(PURGE)
Use your system date format.
Leave device blank if you do not want to save the data
-----
Press ENTER to perform the interactive date purge

F7 and F9 WILL PURGE ALL DATA QUICKLY (ignores purge date)

F7 to Purge ALL Detail and Access Information
F9 to Purge ALL Detail Job Log Information Only          F3=Exit
```

Save Logged Data Before Purge - Select whether to save the log information before purging.

Device - If you selected to save data, enter the tape device name, for the save operation.

Before Date - The date to which the purge will be limited. All logged information before date entered will be purged. Use the date format MM/DD/YY.

For Batch Environment - As shown in the example above, the date must be enclosed with single quotes. If you are saving the data, the device must also be enclosed with single quotes. This example specifies that data will not be saved, and all data collected before 08/02/01 will be purged.

Enter - Press ENTER to perform the full purge of Summary and all detail job log information.

F7=Purge ALL Detail and Access Information - Remove all access summary and detail job log information.

F9=Purge ALL Detail Job Log Information - Remove only detail job log information.

Additional Information

Your operations staff has the ability to save and purge data directly from a command line or user written program by executing the command: `CALL ALCL05`. Sample program code of the save and purge process is located in source member `PURGE`, in source file `SOURCEAL`, and in library `PSAUDIT`. This sample code can be modified to fit your unique needs.

Note

`ALCL30` should be used to purge log data by batch jobs (`ALCL05` is for interactive jobs).

Option 3 Users/Workstations to be Logged

Often times the Security Officer has concerns whether a user is executing commands they should not be executing. By logging the user's activities, the Security Officer can track what is being done.

[illegible]

This function displays all users and workstations being logged and allows you to add or remove them.

User/Job/Workstation - Enter the user profile or workstation name to be logged. To remove an entry, blank out the name and press ENTER.

*ALL All users

| | |
|-------------|--|
| Gen* | A generic list of users or workstations with similar names |
|-------------|--|

Group Prof Enter an 'X' in the Group column to designate the profile as a group profile.

Defaults - Parameters used to control System Access Analysis processing. These values determine the amount and type of information which is logged by the system. The default settings apply to all users and workstations listed unless individual settings exist.

Delete Job Logs - Specify whether job logs are to be deleted automatically after they are captured in the System Access Analysis database.

***NOLIST, *MSG** - These are the Message Logging values used to determine the amount and type of information sent to the job log.

Log Level - Specify a value, ranging from 0 through 4, that specifies the message logging level used for the job's messages. The possible logging levels are:

- 1** No data is logged
- 2** All messages sent to the job's external message queue with a severity level greater than or equal to the Log Severity specified are logged. This includes the indications of job start, job end, and job completion status.
- 3** All information from logged level 1, plus requests (and all associated messages) entered in a command line or commands being logged from a CL program which results in a high-level message with a severity code greater than or equal to the severity code specified.
- 4** All information from logged level 2, plus all messages associated with a request or command being logged from a CL program.
- 5** All requests or commands being logged from a CL program and all messages with a severity code greater than or equal to the severity specified, including trace messages.

Note

A high-level message is one that is sent to the program message queue of the program that receives the request or command being logged from a CL program.

Log Severity - Specify a value, ranging from 00 through 99, that specifies the lowest severity level that causes an error message to be logged in the job's log. Only messages that have a severity code greater than or equal to this value are logged in the job's log.

Message Text Level

Specifies the level of message text that is written in the job log. The possible message text values are:

- *MSG** Only message text is written to the job's log.
- *SECLVL** Both the message text and message help of the error message is written to the job's log.
- *NOLIST** No job log is produced if the job completes normally. If the job ends abnormally (if the end of job code is 20 or higher), a job log is produced. The messages appearing in the job's log contain both message text and online help information.

Log CL Commands

Specify whether commands in a CL program are written to the job log.

F2 = Individual Timing - Enables you to specify certain times of the day in which to exclude specific users from being logged.

The “Maintain Users/Workstations To Be Logged” screen is displayed when F2 is used to specify individual timing. To prevent the user from being logged, place an ‘X’ in a time slot.

| ALRP06 | | MAINTAIN USERS/WORKSTATIONS TO BE LOGGED | | | | | | 6/01/99 | |
|--|------------|--|-------|----------|-----------|---|-----|----------|------|
| | | Delete | Log | Log | *NOLIST | | | Log | |
| | | Joblogs | Level | Severity | *MSG | | | CL | Cnds |
| | | Y/N | 0-4 | 00-99 | *SECLVL | | | *YES/*NO | |
| *ALL for All | | Y | 4 | 00 | *SECLVL | | | *YES | |
| Gen* or Group Prof | | DEFAULTS--> | | | | | | | |
| User/Job/Workstation | | Group(X) | --- | --- | --- | | | --- | |
| *ALL | | | | | | | | | |
| X to exclude | M | 6am | N | 6pm | | M | 6am | N | 6pm |
| Monday: | XXXXXXXXXX | | | | Friday: | | | | |
| Tuesday: | | | | | Saturday: | | | | |
| Wednesday: | | | | | Sunday: | | | | |
| Thursday: | | | | | | | | | |
| X to exclude | M | 6am | N | 6pm | | M | 6am | N | 6pm |
| Monday: | | | | | Friday: | | | | |
| Tuesday: | | | | | Saturday: | | | | |
| Wednesday: | | | | | Sunday: | | | | |
| Thursday: | | | | | | | | | |
| + | | | | | | | | | |
| F3=Exit F2=Individual Timing F9=Users F10=Workstns F11=System Timing | | | | | | | | | |

F3 = Exit - Return to the System Access Analysis Main Menu.

F9 = Users - Displays a window listing of valid users.

F10 = Workstations - Displays a window listing of valid workstations.

F11= System Timing - Specify certain times of day to exclude all users and workstations from being logged.

Maintain SAA System Timing

Press F11 (System Timing) from the “Maintain Users/Workstations To Be Logged” screen to display the panel below. From this screen you can specify time periods during which System Access Analysis should not monitor jobs.

ALCL28Maintain SAA System Timing6/01/99

Enter an X for the time periods you DO NOT want SAA to monitor

(midnight)

(noon)

M

6am

N

6pm

Monday:

Tuesday:

Wednesday:

Thursday:

Friday:

Saturday:

Sunday:

M

6am

N

6pm

Example day 1:

XXXXXXXXXXXX

SAA would only monitor jobs from 6pm to 6am. SAA would not log any jobs during the regular business day.

Example day 2:

XXXXX

SAA would monitor jobs from 5am to midnight.

ENTER to Update

F3=Exit

Option 4 Start Monitor (STRSBS ZALOG)

Starts the subsystem ZALOG. System Access Analysis is an auto start job in the subsystem description.

Enter all or specific users/workstations/job names before starting to monitor batch jobs.

System Access Analysis can be started automatically from within your existing startup routine by adding the following command:

STRSBS PSAUDIT/ZALOG

Option 5 End Monitor (ENDSBS ZALOG *IMMED)

Terminates the ZALOG subsystem, where System Access Analysis is running. This function can be added to your existing shutdown routine by adding the following command:

```
ENDSBS PSAUDIT/ZALOG
```

You should end subsystem ZALOG prior to backups if you intend to backup library PSAUDIT.

Additional Information

Your operations staff has the ability to complete the restore in a batch environment by using the following command:

CALL ALCL06 (*device bdate edate*)

device The name of the tape device enclosed in quotes.

bdate The beginning date of the date range.

edate The end date of the date range.

Option 7 System Access Report

Print a summary report of user accesses to the system. You can report on specific users, jobs, job types, and report sequences.

| | | | |
|--|----------------------|-------------------------------|---------|
| ALDF01 | System Access Report | 15:51:26 | 6/01/99 |
| Summary report of accesses to the system. You can select by User, Job, or Date in any combination. | | | |
| User: | <u>*ALL</u> | (*ALL, Generic*, USRPRF) | |
| Job: | <u>*ALL</u> | (*ALL, Generic*, JOB) | |
| Date: | from <u>000000</u> | to <u>060199</u> | |
| Job Type: | <u>A</u> | (I-Interactive B-Batch A-All) | |
| Report Sort: | <u>U</u> | (U-User J-Job D-Date) | |
| Use Select/Omit: | <u>*NO</u> | (*YES *NO) | |
| OUTQ: | <u>QPRINT</u> | | |
| HOLD: | <u>*NO</u> | (*YES *NO) | |
| F3=Exit | | | |

User - Select a user profile for which to view the job logs.

| | |
|-----------------|------------------------|
| *ALL | All users |
| Generic* | A generic set of users |
| USRPRF | A specific user |

Job - Select a job for which to view the job logs.

| | |
|-----------------|------------------------|
| * ALL | All users |
| Generic* | A generic set of users |
| USRPRF | A specific user |

Date - Enter a date range. If a job was started within this range, it will be printed. Use date format MM/DD/YY.

Job Type - Select the type of job to include.

| | |
|----------|-------------|
| I | Interactive |
| B | Batch |
| A | All |

Report Sort - Specify the order by which the job log summary entries will be sorted.

| | |
|----------|------|
| U | User |
| J | Job |
| D | Date |

Use Select/Omit When Viewing - Specify whether the select/omit processing selections will be applicable when viewing or printing the job log summary and detail information.

OUTQ - Specify the name of the output queue where the report is to be placed.

Hold - Specify whether to hold the report on the output queue.

System Access Report

This summary report is available from the System Access Analysis Main Menu, option 7.

| | | | | | | | | |
|------------------------------------|------|--------|------------------------|------------|----------|----------|------------------|----|
| ALRFP31 | | | SYSTEM ACCESS ANALYSIS | | | | SYSTEM: 10254 | |
| REPORT SELECTION: SEQUENCE BY USER | | | SYSTEM ACCESS REPORT | | | | 15:57:51 6/01/99 | |
| FROM: 0/00/00 | | | TO: 6/01/99 | | | | | |
| USERS: *ALL | | | JOBS: *ALL | | | | | |
| JOB | USER | NBR | START DATE | START TIME | END DATE | END TIME | TOTAL MINUTES | TY |
| QPADEV0056 | ACM | 366156 | 06/01/99 | 8:23:17 | 06/01/99 | 15:57:27 | 454 | I |
| QPADEV0031 | CMJ | 362911 | 05/18/99 | 8:04:22 | 05/18/99 | 11:46:49 | 222 | I |
| QPADEV0036 | CMJ | 362926 | 05/18/99 | 8:20:02 | 05/18/99 | 8:24:04 | 4 | I |
| QPADEV0036 | CMJ | 362932 | 05/18/99 | 8:24:16 | 05/18/99 | 14:08:52 | 344 | I |
| QPADEV0031 | CMJ | 362970 | 05/18/99 | 9:34:13 | 05/18/99 | 9:34:25 | 0 | I |
| QPADEV0031 | CMJ | 363037 | 05/18/99 | 13:32:40 | 05/18/99 | 14:07:01 | 34 | I |
| QPADEV0031 | CMJ | 363042 | 05/18/99 | 14:07:05 | 05/18/99 | 15:58:28 | 111 | I |
| QPADEV0036 | CMJ | 363044 | 05/18/99 | 14:08:11 | 05/18/99 | 14:08:17 | 0 | I |
| QPADEV0031 | CMJ | 363051 | 05/18/99 | 14:31:33 | 05/18/99 | 14:31:58 | 0 | I |
| QPADEV0031 | CMJ | 363052 | 05/18/99 | 14:37:28 | 05/18/99 | 15:58:54 | 81 | I |
| QPADEV0023 | CMJ | 363067 | 05/18/99 | 15:58:24 | 05/18/99 | 16:07:28 | 9 | I |
| QPADEV0009 | CMJ | 363072 | 05/18/99 | 16:36:20 | 05/18/99 | 16:50:20 | 14 | I |
| QPADEV0023 | CMJ | 363081 | 05/18/99 | 16:50:16 | 05/18/99 | 17:50:15 | 59 | I |
| QPADEV0009 | CMJ | 363084 | 05/18/99 | 16:51:31 | 05/18/99 | 17:50:10 | 58 | I |
| QPADEV0041 | CMJ | 364630 | 05/25/99 | 8:07:23 | 05/25/99 | 8:19:48 | 12 | I |
| QPADEV0041 | CMJ | 364653 | 05/25/99 | 8:20:53 | 05/25/99 | 8:24:18 | 3 | I |
| QPADEV0041 | CMJ | 364656 | 05/25/99 | 8:24:54 | 05/25/99 | 8:25:05 | 0 | I |
| QPADEV0082 | CMJ | 364819 | 05/25/99 | 15:42:11 | 05/25/99 | 15:46:15 | 4 | I |
| QPADEV0017 | CMJ | 364828 | 05/25/99 | 16:14:09 | 05/25/99 | 16:22:16 | 8 | I |
| QPADEV0035 | CMJ | 365083 | 05/26/99 | 12:43:32 | 05/26/99 | 16:41:37 | 238 | I |
| QPADEV0078 | CMJ | 365118 | 05/26/99 | 14:03:14 | 05/26/99 | 14:26:32 | 23 | I |
| QPADEV0073 | CMJ | 365339 | 05/27/99 | 9:08:11 | 05/27/99 | 9:23:58 | 15 | I |
| QPADEV0072 | CMJ | 365357 | 05/27/99 | 9:20:22 | 05/27/99 | 15:30:31 | 370 | I |
| QPADEV0062 | CMJ | 365431 | 05/27/99 | 13:52:19 | 05/27/99 | 16:20:32 | 148 | I |
| QPADEV0072 | CMJ | 365451 | 05/27/99 | 15:30:42 | 05/27/99 | 15:34:47 | 4 | I |
| QPADEV0028 | CMJ | 365557 | 05/28/99 | 8:13:12 | 05/28/99 | 11:16:38 | 183 | I |
| QPADEV0050 | CMJ | 365593 | 05/28/99 | 8:49:57 | 05/28/99 | 11:32:00 | 162 | I |
| QPADEV0051 | CMJ | 365596 | 05/28/99 | 8:56:09 | 05/28/99 | 14:07:18 | 311 | I |
| QPADEV0050 | CMJ | 365681 | 05/28/99 | 11:32:06 | 05/28/99 | 11:37:19 | 5 | I |
| QPADEV0051 | CMJ | 365734 | 05/28/99 | 14:07:28 | 05/28/99 | 14:07:45 | 0 | I |
| QPADEV0051 | CMJ | 365735 | 05/28/99 | 14:07:50 | 05/28/99 | 14:12:07 | 4 | I |
| QPADEV0053 | CMJ | 365760 | 05/28/99 | 15:29:45 | 05/28/99 | 16:37:40 | 67 | I |
| QPADEV0008 | CMJ | 365780 | 05/28/99 | 17:08:21 | 05/28/99 | 17:08:47 | 0 | I |
| QPADEV0008 | CMJ | 365781 | 05/28/99 | 17:08:52 | 05/28/99 | 17:40:35 | 31 | I |
| DSP0000001 | DWL | 366329 | 06/01/99 | 14:59:17 | 06/01/99 | 15:50:47 | 51 | I |
| QPADEV0085 | MBY | 366223 | 06/01/99 | 9:35:32 | 06/01/99 | 15:49:57 | 374 | I |
| TOTAL JOBS: | | 36 | | | | | | |
| TOTAL BATCH: | | 0 | | | | | | |
| TOTAL INTERACTIVE: | | 36 | | | | | | |

The System Access Report displays all job log summary information, including each job's duration in minutes.

Reporting

System Access Analysis API Printing

The System Access Analysis Application Program Interface (API) allows you to print SAA reports directly from your own programs. Use the PSAUDIT/ALOGPRT command to print logging information without using the menus. Sample source code is located in member PRINT, in file SOURCEAL in library PSAUDIT. This sample program will print summary logging information from the previous week.

Print Access Analysis Report (ALOGPRT)

Type choices, press Enter.

| | | |
|----------------------------------|---------------|--------------------------------|
| Print detail | <u>*YES</u> | *YES, *NO |
| Report sort | <u>D</u> | D-Date U-User J-Job |
| Job name or workstation | <u>*ALL</u> | *ALL, Job, Gen* |
| User profile | <u>*ALL</u> | *ALL, User, Gen* |
| Job number | <u>*ALL</u> | *ALL, Job number |
| From date | <u>*CURR</u> | Date, *CURR, *PRVMS, *PRVME... |
| To date | <u>*CURR</u> | Date, *CURR, *PRVMS, *PRVME... |
| From time | <u>*ALL</u> | Time |
| To time | _____ | Time, *CURR |
| Type of job | <u>A</u> | A-All B-Batch I-Interactive |
| Job queue for submitted job . . | <u>QBATCH</u> | Name |
| Use Select/Omit parameters . . . | <u>*YES</u> | *YES, *NO |
| Output queue | <u>QPRINT</u> | Name |
| Hold on outq | <u>*NO</u> | *NO *YES |
| Hold on jobq | <u>*NO</u> | *NO *YES |
| Display or Print | <u>P</u> | D-Display P-Print |

More...

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

Print Detail - Print summary or detail information of the job logs.

Report Sort - The order by which the job log summary entries will be sorted.

- D** Date
- U** User
- J** Job

Job Name or Workstation - Job or workstation name to print the job logs.

- Job** A specific job/workstation
- *ALL** All jobs/workstations
- Gen*** The generic name of the user profile

User Profile - The name or generic name of the user profiles for which to print the job logs.

- User** A specific user
- *ALL** All users
- Gen*** The generic name of the user profile

Job Number - The job number which uniquely identifies the job for which you want to print job logs.

From Date and To Date - A date range of jobs started during the specified dates.

- Date** A specified date in MM/DD/YY format
- *CURR** Current date
- *PRVMS** Previous month start
- *PREVME** Previous month end

From Time and To Time - The time range of those jobs started during the specified times.

Type of Job - The classification of the job to print.

- A** Both Interactive and Batch
- I** Interactive
- B** Batch

Job Queue for Submitted Job - The name of the job queue where the print job will run.

Use Select/Omit Parameters - Specify whether the select/omit processing selections will be applicable when printing the job log summary and detail information.

Output Queue - The name of the output queue where the printed job is to be placed.

Hold on OUTQ - Specify whether to hold the printed job log information on the out queue.

Hold on JOBQ - Specify *YES to submit the job and hold it in the jobq. The jobs on hold must be released to produce the printed output.

Display or Print

D Display

P Print

Run Interactively - Specify *NO to submit to batch.

Option 8 Maintain Users Access Authority

Lets you manage the users who are granted access authority to System Access Analysis. A user cannot access SAA without being listed on this screen, even if he has *ALLOBJ special authority. Initially, only the Security Officer profile (QSECOFR) has access to Access Analysis.

| | | |
|--|---|---------|
| ALRP08 | Maintain User Allowed to Access PSAudit/SAA | 6/02/99 |
| ADD..... Enter User Profile to ADD a User | | |
| DELETE.. Blank Out the User Profile to DELETE a User | | |
| User Profile | Read Only ("X") | |
| ACM | | |
| AJT | X | |
| BAM | | |
| BTF | | |
| BTFT | | |
| CAS | X | |
| CEC | | |
| CLS | | |
| CLST | | |
| CMJ | X | |
| CMJT | X | |
| DMH | X | |
| DMHT | | |
| DMM | | |
| DWL | X | |
| | | + |
| ENTER=Update F3=Exit | | |

User Profile - The name of the user who will be granted access to System Access Analysis. To remove a user from the list, blank out the field and press ENTER.

Read Only - Place an 'X' in this field to grant a user Read Only access rights to System Access Analysis. The user will be able to view information, but will be unable to purge data.

Option 9 Select/Omit Processing

This function is used to optionally filter the records that appear when viewing or printing the summary information of job logs as well as the amount of detail that appears when viewing or printing job logs.

```
ALRP19                                System Access Analysis      ARGUS      6/02/99
                                       Specify Select/Omit Criteria   9:42:43

Q ( S=Select    O=Omit )              ADD..... Enter Text and Type
                                       DELETE.. Blank out Text

Compare Text          Type of Text
(TEXT USER MSGID SEV TYPE)

Escape               TYPE
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
_____             _____
```

+

NO SELECT/OMIT ENTRIES EXIST ENTER-Update F3-Exit

Select/Omit - Select or Omit job log records having the specified comparison text.

Compare Text - Information that exists for the “Type of Text” is used during the application of the select/omit processing. The compare text used is CASE SENSITIVE. The first blank in the character string identifies the end of the string.

Type of Text - The column name (TEXT, USER, MSGID, SEV, or TYPE) from the Access Analysis Report against which the “Compare Text” is compared.

- **TEXT** - The “Compare Text” is a character string which is checked against each line of the job log. The first blank in the value is the delimiter.
- **USER** - The “Compare Text” is a User Profile to Select or Omit. This is applicable when viewing or printing the Access Analysis Report and the System Access Report.

- **MSGID** - The “Compare Text” represents a 7-character message identifier.
- **SEV** - The “Compare Text” is a Message Severity Level ranging from 00 through 99.
- **TYPE** - The “Compare Text” identifies the message type of the messages in the job log to Select or Omit when viewing or printing the Access Analysis Report. The following values may be specified for the “Compare Text” when TYPE is used:
 - **Command** - A message that is an actual command executed by a CL program.
 - **Completion** - Conveys completion status of work.
 - **Diagnostic** - Indicates errors in a system function, errors in an application, or errors in input data.
 - **Escape** - Describes a condition for which a program must end abnormally.
 - **Information** - Provides general non error related information.
 - **Inquiry** - Conveys information but also asks for a reply.
 - **Notify** - Describes a condition for which a program requires corrective action or a reply.
 - **Request** - Contains a command for processor, such as command entry.

Note

The “Compare Text” values specified for TEXT, MSGID, SEV, and TYPE are used to determine whether the job log messages an associated text will appear on the Access Analysis Report.

Option 10 Work With ZALOG Subsystem Jobs

Displays active jobs for active subsystem ZALOG. If subsystem is inactive, the message “Subsystem ZALOG not active” is displayed.

Option 11 Configure SAA for Interactive Jobs

The Configure SAA for Interactive Jobs option lets you log the activities of interactive users when they exit the system.

ISIS
AL2000R

System Access Analysis Configuration

1/11/01
12:17:12

Type options, press Enter.
4=Remove SAA Capture (VCP) 6=Apply SAA Capture(VCP)

| Opt | Command | Library | UC Program | VCP Library |
|-----|-----------|------------|------------|-------------|
| - | SIGNOFF | MKRISTAL | *NONE | |
| - | SIGNOFF | QSYS | *NONE | |
| - | SIGNOFF | QSYSU3R2M0 | *NONE | |
| - | SIGNOFF | QSYSU3R7M0 | *NONE | |
| - | SIGNOFF | QSYSU4R1M0 | *NONE | |
| - | SIGNOFF | QSYSU4R2M0 | *NONE | |
| - | SIGNOFF | QSYS38 | *NONE | |
| - | ENDPASTHR | MKRISTAL | *NONE | |
| - | ENDPASTHR | QSYS | *NONE | |
| - | ENDPASTHR | QSYSU3R2M0 | *NONE | |
| - | ENDPASTHR | QSYSU3R7M0 | *NONE | |
| - | ENDPASTHR | QSYSU4R1M0 | *NONE | |
| - | ENDPASTHR | QSYSU4R2M0 | *NONE | |
| - | ENDPASTHR | QSYS38 | *NONE | |

Bottom

F3=Exit F4=Start Batch Monitor F5=End Batch Monitor F9=Remove All F12=Cancel

Before you can use this option, you must configure your system using the following options:

4 = Remove SAA Capture (VCP) - Removes the validity checking program (VCP) from the commands.

6 = Apply SAA Capture (VCP) - Changes the SIGNOFF, ENDPASTHR, and ENDJOB commands in the library selected. SAA does not change the functions of these commands. It just adds a validity checking program. After you have configured your libraries by specifying “6”, the SAA program will log the activities of interactive users when their job ends.

Function keys

F3 = Exit - Ends the current task and redisplay the previous screen.

F4 = Start Batch Monitor - Starts the subsystem ZALOG. System Access Analysis is an auto start job in the subsystem description. Enter all or specific users/workstations/job names before starting to monitor batch jobs. System Access Analysis can be started automatically from within your existing startup routine by adding the following command:

```
STRSBS PSAUDIT/ZALOG
```

F5 = End Monitor - Terminates the ZALOG subsystem, where System Access Analysis is running. This function can be added to your existing shutdown routine by adding the following command:

```
ENDSBS PSAUDIT/ZALOG
```

You should end subsystem ZALOG prior to backups if you intend to backup library PSAUDIT.

F9 = Remove All - Removes all validity checking programs from the SIGNOFF, ENDPASTHR, and ENDJOB commands in all the libraries on the system.

Note

If the SAA validity checking programs are not attached to the SIGNOFF, ENDPASTHR, and ENDJOB commands, SAA may not capture job logs for interactive jobs.

F12 = Cancel - Redisplay the previous screen.

Option 12 Uninstall System Access Analysis

Ends the ZALOG subsystem and removes the SAA programs from the SIGNOFF and ENDPASTHR commands.

PA2PentaSafe Security Technologies, IncCASDate: 1/25/01System Access AnalysisQPADEV0009Time: 11:03:48

Select one of the following:

1 Access Logged Data2 Purge Logged Data3 Users/Workstations To Be Logged4 Start Batch Monitor5 End Batch Monitor (E6 Restore Purged Data7 System Access Report8 Maintain Users Acces9 Select/Omit Processi10 Work With ZALOG Subs11 Configure SAA for In12 Uninstall System Acc

Option Confirmation

Press Enter to Continue.

12 - Uninstall System Access Analysis

F12=Previous

Enter Option or Function/Type ==> 12

F1=HelpF3=ExitF6=MessagesF9=WindowF10=Cmd LineF12=PreviousF13=AttentionF14=Batch JobsF18=Reports

To uninstall System Access Analysis:

1. From the System Access Analysis Menu, choose Option 12 Uninstall System Access Analysis and press ENTER.
2. From the Option Confirmation window, press ENTER to continue or
3. Press F12=Previous to cancel the uninstall.

Monitoring Short Jobs

By default, many jobs run with job attributes that create a job log with insufficient data for auditing and evaluation, or do not create a job log at all. You can use System Access Analysis to monitor all jobs on the system and capture basic job information, such as the start date, end date, time, and duration. You can also easily change the logging levels of batch and interactive jobs. System Access Analysis works in conjunction with the QHST log and cannot change the logging level for batch or interactive jobs that complete in less than 27 seconds. To change the logging level for short jobs, you can add System Access Analysis programs to your subsystem routing entries or program calls to your initial program to change the logging level before the job executes.

Routing Entries Function

To change the logging level of batch jobs that complete in less than 27 seconds, you can add a System Access Analysis program to your subsystem routing entries.

To add routing entries:

1. Log on to the iSeries server where NetIQ Security Solutions for iSeries is installed with a user profile authorized to PSAudit.
2. Identify the subsystems you want to log.
3. Identify the pool the jobs run in for each subsystem.
4. On the command line, type **DSPSBSD QBATCH** and press ENTER.
5. Type 2 and press ENTER to identify your pool definitions.
6. Press F12.
7. *If you want SAA to automatically assign the sequence numbers to the routing entries*, add the routing entries by issuing the following command, specifying the desired pool identifier (typically 1):

```
ALRRT  SBSD(QBATCH)  LIB(QSYS)  POOLID(?)
```

8. *If you want to select the sequence numbers for the routing entries*, add the routing entries by issuing the following commands:

```
ADDRTGE SBSD(QGPL/QBATCH) SEQNBR(N) CMPVAL(QCMDB) PGM(PSAUDIT/  
ALCL83) POOLID(?)
```

```
ADDRTGE SBSD(QGPL/QBATCH) SEQNBR(N) CMPVAL(QCMDI) PGM(PSAUDIT/  
ALCL83) POOLID(?)
```

```
ADDRTGE SBSD(QGPL/QBATCH) SEQNBR(N) CMPVAL(ALOG) PGM(QSYS/QCMD)  
POOLID(?)
```

where *N* is the sequence number you want to assign to the routing entry and *?* is the pool identifier.

To remove routing entries:

1. Log on to the iSeries server where NetIQ Security Solutions for iSeries is installed with a user profile authorized to PSAudit.
2. On the command line, type `PSAUDIT/RMVRTG SBSD(subsystem) LIB(library)`
where *subsystem* is the name of the subsystem containing the routing entries and *library* is the library name of the subsystem.
3. Press ENTER.

Initial Program Function

To change the logging level of interactive jobs when they start, you can call a special SAA program within the user profile initial program (INLPGM).

Add the following commands to the user profile initial programs:

```
CALL PSAUDIT/ALCL84  
MONMSG CPF0000
```

Reducing Logged Information

If System Access Analysis is providing too much information, you may eliminate a log of the less important information by changing the Access Analysis defaults. For more information, see “Option 3 Users/Workstations to be Logged” on page 322.

NetIQ Corporation recommends:

- Log Severity: 50
- Message Logging: *MSG

Chapter 14

Data Auditing and Reporting

The Data Auditing and Reporting feature is designed to track changes made to any iSeries file, and report on only those files and fields that you specify. It can save hundreds of hours in tracking and documenting system activities.

Data Auditing and Reporting is easy to use and eliminates the need for Data Processing help when you need to find out who is making changes to certain files, regardless of how the file was accessed. A great way to monitor programmers or end users making changes through a data file utility.

The software lets you specify the file and fields to monitor for change. When the extraction is run, it will analyze the data and pick out the records that have changes to the fields you have specified. This produces an easy-to-read report or an output file with only the information you want to analyze, not every field in the record. You can also specify fields to only be reported on when a change was made to a field that is being monitored for change. This information can be extracted by USER, FILE, LIBRARY, JOB, or DATE/TIME.

To start using data auditing and reporting:

1. From the “Work with Files” screen (DDRP40), select F6 to add a file and library name.
2. Start journaling on the file by typing 1 in the option field. Press ENTER.

Note

This will be done in batch.

3. Work with fields of the file by typing a **6** in the option field. Press ENTER.
4. Select fields to appear on a report:
 - a. Type a **C** next to the fields you want to monitor for change and an **R** next to those that you want to appear for reporting purposes only.
 - b. Press ENTER.
5. At this point changes made to the file can be reported using Option 8. Option 9 produces a report showing access to the file. For more information, see “Report of Accessed Data (Screen 1)” on page 361.

Work with Files screen (DDRP40)

The Data Auditing and Reporting “Work with Files” screen enables the System Administrator to access all of the product features. This screen lists all files defined to DAR (name and library), if the file is being archived, if the file is currently being journaled, the type of journal images (B=Both, A=After), the date the journal started capturing, and description text of the file (first 14 characters).

| | | | | | | | | |
|--|-----------|---------------------|------|---------------------|---------|--------|--------|----------|
| DDRP40 | | Work with Files | | 6/01/00 10:14:16 | | | | |
| | | Position to | | | | | | |
| Type options, press Enter. | | | | | | | | |
| 1=Journal ON/OFF | | 2=Work with Filters | | 4=Remove from list | | | | |
| 5=View Data | | 6=Work with Fields | | 7=Work with Archive | | | | |
| 8=Change Report | | 9=Access Report | | | | | | |
| Being Start | | | | | | | | |
| Opt | File/*ALL | Library | Arc? | Jrnl | Journal | Images | Date | Text |
| - | DUP | ARP | N | | | | | |
| - | INDI1976 | ARP | N | Y | DDJRN | B | 000518 | |
| - | INDI1997 | ARP | N | N | DDJRN | B | 000504 | |
| - | MJATEST | MJALIB | N | Y | TEST | A | 000204 | |
| - | TESTPF | ARP | N | Y | DDJRN | B | 000331 | Test DAR |
| - | TESTPF3 | ARP | N | N | DDJRN | B | 000301 | Test DAR |
| - | TESTPF4 | ARP | Y | Y | DDJRN | B | 000403 | Test DAR |
| | | | | | | Bottom | | |
| F1=Help F3=Exit F5=Refresh F6=Add F8=Chg Rpt F9=Acc Rpt F11=Sys Menu | | | | | | | | |

Options

Options are entered in front of the desired record to execute processes on individual objects. Type the option number next to an object and press ENTER.

1 = Journal ON/OFF - Turns on journaling for the selected file if it is currently off, or turns off journaling if it is currently on.

Note

The journaling process is done in Batch. The Batch Job will wait until it can allocate the file. The process will end when the file is not being used.

2 = Work with Filters - Manage filters for a specific file. For more information, see “Working With Filters” on page 292.

4 = Remove From List - Removes the entry from the list of files without stopping the journaling.

Note

Removing the entry does not delete the file from the system.

5 = View Data - View the selected data. You can run reports on files that contain an unlimited number of fields, while monitoring a maximum of 249 fields.

DDRP40
Work with Files
6/01/00 10:14:16

Type options, press Enter.
1=Journal ON/OFF 2=Work with Filt
6=Work with Fields 7=Work with Arch
Being

Opt File/*ALL Library Arc? Jrnl J
5 DUP ARP N Y D
- INDI1976 ARP N N D
- INDI1997 ARP N Y T
- MJATEST MJALIB N Y D
- TESTPF ARP N N D
- TESTPF3 ARP Y Y D
- TESTPF4 ARP Y Y D

PSAudit DAR View Window
DAR View Parm
Starting jrn rcvr *CURRENT
Library
Ending jrn rcvr
Library
User profile *ALL
Job name *ALL
User
Number
Starting date MDY
Starting time hhmmss
Ending date MDY
Ending time hhmmss
Changes only? *YES (T,J,U,P)
Sort by I
Use archived data? *NO
Filter Name *NONE
Enter=View F3=Exit F12=Cancel

F1=Help F3=Exit F5=Refresh F6=Add F8=Chg Rpt F9=Acc Rpt F11=Sys Menu

| | | | | | | | | | |
|-------------------|--------|-----------------|-----------------|------------------|--------|-----------|----------------------------|----------------|--|
| Query | | QTEMP/PSRUNSQL3 | | Width | | 123 | | Display Report | |
| Form | | *SYSDFIT | | Column | | 1 | | | |
| Control | | | | | | | | | |
| Line | | | | | | | | | |
| | JOENTT | Description | Job Description | JOJOB | JOUSER | JONBR | JOTSTP | JOPGM | |
| 000001 | UB | QDFTJOB0 | KUG | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.943200 | QCMD | |
| 000002 | UP | jjjjjjjjjj | KUG | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.943200 | QCMD | |
| 000003 | UB | QDFTJOB0 | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.948352 | QCMD | |
| 000004 | UP | jjjjjjjjjj | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.948352 | QCMD | |
| 000005 | UB | QDFTJOB0 | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.983632 | QCMD | |
| 000006 | UP | jjjjjjjjjj | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.983632 | QCMD | |
| 000007 | UB | QDFTJOB0 | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.985640 | QCMD | |
| 000008 | UP | jjjjjjjjjj | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.985640 | QCMD | |
| 000009 | UB | SS3JOB0 | SGSLIB | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.988448 | QCMD | |
| 000010 | UP | jjjjjjjjjj | SGSLIB | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.988448 | QCMD | |
| 000011 | UB | QDFTJOB0 | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.991024 | QCMD | |
| 000012 | UP | jjjjjjjjjj | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.991024 | QCMD | |
| 000013 | UB | QDFTJOB0 | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.993600 | QCMD | |
| 000014 | UP | jjjjjjjjjj | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.993600 | QCMD | |
| 000015 | UB | QDFTJOB0 | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.995488 | QCMD | |
| 000016 | UP | jjjjjjjjjj | QGGL | QPADEV0000Q | SGS | 235,962 | 1999-11-12-14.45.00.995488 | QCMD | |
| F3=Exit | | F12=Cancel | | F19=Left | | F20=Right | | F21=Split | |

6=Work with Fields - Lets you select specific fields and how DAR should track. Option 6 takes you to the “Work with Fields” window. This window enables the selection of specific fields to monitor for change and listing on a report.

DDRP40

Work with Files

6/01/00 10:53:56

Position to

Type o
1=Jour
6=Work

File : XXXX1
Library : ARP

Opt Fil
- DUP
- IND
- IND
- MJA
- TES
- TES
- TES
6 XXX

Work with Fields

Position to

Type Codes, press Enter.
C=Detect Changes R=Report Only N=Remove Selection

| Opt Code | Field Name | Text Description |
|----------|------------|--|
| - C | WHALIS | Alternative field name |
| - | WHALLC | Allocated length |
| - C | WHALTY | Character field may be DBSC activated: N=No, |
| - | WHBCHI | Barcode height: 000=No height specified |
| - R | WHBCNM | Barcode name |
| - | WHCDFL | Coded font lib, blank = none |
| - C | WHCDFN | Coded Font, blank = none |
| - C | WHCFPS | Coded font point size. 0=*NONE |
| - | WHCHD1 | Column heading 1 |

More...

F1=Help F3=Exit F7=Select *ALL F12=Previous

F1=Help
Field WHCFPS Monitoring Status Changed

Library - The library where the file is located.

Options

C = Detect Changes - Type **C** next to the field that you would like to monitor for change. If changes occur to any of these fields, they will appear on the report in addition to fields selected for reporting purposes only.

R = Report Only - Type **R** next to the field that you would like to see on a report. When processing the report, the selected fields will be shown.

N = Remove Selection - Type **N** next to the field that you want removed. Selected fields will not be shown on the report.

Code - Displays the current monitoring status of the field. Type an option next to any of the fields and press ENTER to place the option in the output field.

Field Name - The name of the field.

Text Description - A description of the field.

F7 = Select *All - This function will mark all the fields with a “C” to monitor for changes, and will save you time in selecting each field. If your file has many fields, you may want to report on just the changed fields. To include only changed fields in the “Report of Changed Data,” type Y for the parameter labeled “Report Changed Data Only”.

7=Work with Archive - Lets you work with the archive file for the specified file being journaled. The archive file will store only the necessary journal data for the specified file, allowing the journal receiver to be removed from the system while allowing you to run DAR reports. This option presents the following popup screen:

```
DDRP40                                Work with Files                6/01/00 10:58:39
                                      Position to . . . . _____
Type options, press Enter.
1=Journal ON/OFF  2=Work with Filters  4=Remove from list 5=View Data
6=Work
                                Work With Archive Information
Opt Fil  For Update Press Enter.
-   DUP
-   IND   Archive Status : M
-   IND
-   MJA   Archive File   : _____
Z   TES   Archive Library: _____
-   TES
-   XXX   Archived Date  :
                                Archived Time  :

                                F1=Help  F3=Exit  F4=Purge  F12=Previous
F1=Help
```

Archiving can be turned on (set Archive Status to “Y”) and the archive library and file can be set or renamed. Use F4 to purge all or some (by date) of the archive data. The archive date and time indicates the most recent time the archive file was updated.

Note

To minimize archive file size and disk usage, it is best to limit the use of the archive option to essential files only.

8 = Change Report - Produces the DAR Change Report. The report will show the changes that have occurred for the selected file. You can run reports on files that contain an unlimited number of fields, while monitoring a maximum of 389 fields. For more information, see “Report of Changed Data (Screen 1)” on page 354.

9 = Access Report - Produces the DAR Access Report. The report will show the accesses that have occurred for the selected file. For more information, see “Report of Accessed Data (Screen 1)” on page 361.

File/*ALL - The file you are working with.

Library - The library where the file is stored.

Arc? - The archive status of the file.

Y The file has been set up to be archived.

N The file is not being archived at this time.

Being Jrnld - Specifies whether or not the file is currently being journaled.

Y The file is currently being journaled.

N The file is not being journaled at this time.

Journal - The journal where the changed data of a specific file is stored.

Images - The type of journal images being captured.

B Before and after images.

A Only after image.

Start Date - The date the journal started capturing data.

Text - This field lists the description text of the file. (first 14 characters only)

Function Keys

F3 = Exit - Exit the DAR “Work with Files” screen.

F5 = Refresh - Restore or update DAR screen data displayed.

F6 = Add - Add a file to the DAR file list. The file name can be a single file, a generic file name (i.e. A*), or *ALL. The library name must be specified.

F8 = Chg Rpt - Produces the DAR Change Report. This differs from option 8 in that multiple files can be specified. For more information, see “Report of Changed Data (Screen 1)” on page 354.

F9 = Acc Rpt - Produces the DAR Access Report. This differs from Option 9 in that multiple files can be specified. For more information, see “Report of Accessed Data (Screen 1)” on page 361.

F11 = Sys Menu - This option presents the DAR System Menu. You can work with the journal, set Change and Access Report defaults, and define the users authorized to DAR. For more information, see “F11 System Menu” on page 367.

F12 = Cancel - Use this option to exit the DAR “Work with Files” screen.

Report of Changed Data (Screen 1)

Option 8 and F8 use the DDRPT command. F8 and DDRPT lets you specify one or many file names. A DAR Change Report will be produced for each file specified.

DAR Changed Data Report (DDRPT)

Type choices, press Enter.

| | | |
|-------------------------------|-------------------|---------------------------|
| File | > TESTPF | Name, *ALL |
| Library | > ARP | Name, *LIBL |
| Range of journal receivers: | | |
| Starting journal receiver . . | <u>*CURRENT</u> | Name, *CURRENT, *CURCHAIN |
| Library | <u> </u> | Name, *LIBL, *CURLIB |
| Ending journal receiver . . | <u> </u> | Name, *CURRENT |
| Library | <u> </u> | Name, *LIBL, *CURLIB |
| User profile | <u>*ALL</u> | Character value |
| Job name | <u>*ALL</u> | Name, *ALL |
| User | <u> </u> | Name |
| Number | <u> </u> | 000000-999999 |
| Starting date and time: | | |
| Starting date | <u> </u> | Date (job date format) |
| Starting time | <u> </u> | Time (hhmmss) |

More...

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

File - The file whose journal entries will be reported. A special value of *ALL can be used to report on all changed files in the specified library.

Note

When this parameter is set to *ALL, the **File to receive output** parameter must be set to *NONE.

Journal Receiver Range - The starting (first) and ending (last) journal receivers (the receiver range) that contain the journal entries to include. DAR starts with the starting journal receiver (as specified by the first value) and proceeds through the receiver chain until the ending receiver (as specified by the last value) is processed. If dual receivers are used at any time, the first of the receivers is used when chaining through the receivers. The Work with Journal Attributes (WRKJRNA) command can be used to show the order of the receivers in the receiver chain.

Note

If the maximum number of receivers (256) in the range is surpassed, an error occurs and no DAR report is produced.

You can specify *CURRENT, the journal receiver that is currently attached is used, or *CURCHAIN, the journal receiver chain that includes the journal receiver that is currently attached.

Note

*CURCHAIN is only valid for the starting journal receiver.

User Profile - The user profile that you would like to monitor.

***ALL** All users will be reported on

Job Name - Specify an individual job to monitor for changes.

***ALL** All jobs will be shown on the report

Starting Date and Time - The begin date and time range for reporting. This field enables you to specify periods in which you would like to specifically monitor.

- The format of the date field is your jobs date format.
- The format of the time field is HH:MM:SS.

Report of Changed Data (Screen 2)

DAR Changed Data Report (DDRPT)

Type choices, press Enter.

Ending date and time:

Ending date

Ending time

File to receive output

Library

Replace or add records

Report changed data only?

Sort for report (T J U P)

Use archived data?

Filter Name

Output queue

Library

Hold report on output queue

Run interactively?

Generate Report

Job queue

Library

Schedule job?

*NONE

*LIBL

*REPLACE

*YES

T

*NO

*NONE

QPRINT

*LIBL

*NO

*NO

*YES

QBATCH

*LIBL

*NO

Date (job date format)

Time (hhmmss)

Name, *NONE

Name, *LIBL, *CURLIB

*REPLACE, *ADD

*YES, *NO (all)

Time/date, Job, User, Program

*YES, *NO

Name, *NONE,...

Name, *CURRENT, *USRPRF...

Name, *LIBL

*YES, *NO

*YES, *NO

*YES, *NO

Name, *NONE

Name, *LIBL, *CURLIB

*YES, *NO

F3=Exit

F4=Prompt

F5=Refresh

F12=Cancel

F13=How to use this display

Bottom

F24=More keys

Ending Date and Time - The end date time range for reporting. This time field enables you to specify periods in which you would like to specifically monitor.

- The format of the date field is jobs date format.
- The format of the time field is HH:MM:SS.

File to Receive Output - The data file where you would like to place the reported data.

*NONE = The reported data will not be placed into a data file.

Note

When the File parameter is set to *ALL, this parameter must be set to *NONE.

The following 19 fields, plus the fields of the selected file are available in the Output File layout.

| FIELD NAME | TYPE | | DESCRIPTION |
|--------------|--------------|----|---------------------|
| JOENTL | *ZONED | 5 | Length of Entry |
| JOSEQN | *ZONED | 10 | Sequence Number |
| JOCODE | *CHAR | 1 | Journal Code |
| JOENTT | *CHAR | 2 | Entry Type |
| JOTSTP | *CHAR | 26 | Date of Entry |
| JOJOB | *CHAR | 10 | Name of Job |
| JOUSER | *CHAR | 10 | Job User |
| JONBR | *ZONED | 6 | Job Number |
| JOPGM | *CHAR | 10 | Update Program |
| JOOBJ | *CHAR | 10 | File Name |
| JOLIB | *CHAR | 10 | File Library |
| JOMBR | *CHAR | 10 | File Member |
| JOCTRR | *ZONED | 10 | Relative R# |
| JOFLAG | *CHAR | 1 | Flag 1 or 0 |
| JOCCID | *ZONED | 10 | Commit Cycle |
| JOUSPF | *CHAR | 10 | User Profile |
| JOSYNM | *CHAR | 8 | System Name |
| JOSRES | *CHAR | 20 | Not Used |
| JONVI | *CHAR | 54 | Not Used |
| File Field 1 | Field 1 type | | |
| Field n | Field n type | | Selected PF Field n |

Note

JOENTT = UB - Before image of a changed record

UP - After image of a changed record

PT - Record Addition

PX - Record Addition (directly by Relative Record Number)

DL - Record Deletion

Further Information on JO* fields can be obtained from *i5/OS Backup and Recovery Guide* (SC41-5304-02), Appendix 1.4.3.

Replace or Add Records - Specifies whether you will be adding data to a file or replacing the existing data.

***REPLACE** Replaces existing file data with new reported data.

***ADD** Adds the new reported data to the end of the existing file.

Report Changed Data Only - Reports on the changed data for the fields you have marked for change.

***YES** Only reports "changed" data.

***NO** Reports on all fields marked for change, whether the data has changed or not.

Sort for Report (T J U P)

T Time/Date

J Job name

U User profile name

P Program name

Use Archive Data?

***YES** Include data contained in the archive file in the report. Note, the specified starting and ending date and time fields apply to archive data and journal receiver data.

***NO** Only existing journal receiver data is considered.

Filter Name - A user-defined filter used to select data to include in the report.

***NONE** Data is not filtered.

Output Queue - Output queue where the job's spooled files are to be placed.

Hold Report on Output Queue - Specify whether to hold the report file on the output queue.

***NO** Report is not held.

***YES** Report is placed on hold.

Run Interactively - Run interactively (RUNI) allows the reports to be run or scheduled in batch or run interactively.

***NO** Submit to batch.

***YES** Run interactively.

Generate Report - Generate Report lets you generate a report or send the data to a data file.

***NO** Does not generate a report. You must specify a file name in the **File to receive output** field.

***YES** Generates a report and an outfile if specified.

Job queue - The job queue for the batch job (if RUNI=*NO). This field is displayed only when F9 is pressed.

Job# - The number of the job as assigned by the system where the change was executed.

Type - The action that was performed on the database.

ADD Add record

DEL Delete record

UPD Update record

Program - The name of the program that executed the database change.

System - The system where the change occurred.

Member - The name of the file member where the data is located.

Before Image - The record information of a field before changes were made to the database.

After Image - The record information of a field after changes were made to the database.

Change Indicator - An "*" next to the date indicates the data has been changed. This is only for fields that have been marked for change.

Report of Accessed Data (Screen 1)

Option 9 and F9 use the DDRPTA command. F9 and DDRPTA lets you specify one or many file names. A DAR Access Report will be produced for each file.

File - The name of the file whose journal entries will be reported. A special value of *ALL can be used to report on all changed files in the specified library.

DAR File Access Report (DDRPTA)

Type choices, press Enter.

| | | |
|-------------------------------|----------|---------------------------|
| File | _____ | Name, *ALL |
| Library | *LIBL | Name, *LIBL |
| Range of journal receivers: | | |
| Starting journal receiver . . | *CURRENT | Name, *CURRENT, *CURCHAIN |
| Library | _____ | Name, *LIBL, *CURLIB |
| Ending journal receiver . . | _____ | Name, *CURRENT |
| Library | _____ | Name, *LIBL, *CURLIB |
| User profile | *ALL | Character value |
| Job name | *ALL | Name, *ALL |
| User | _____ | Name |
| Number | _____ | 000000-999999 |
| Starting date and time: | | |
| Starting date | _____ | Date (job date format) |
| Starting time | _____ | Time (hhmmss) |

More...

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display
F24=More keys

Journal Receiver Range - The starting (first) and ending (last) journal receivers (the receiver range) that contain the journal entries to include. DAR starts with the starting journal receiver (as specified by the first value) and proceeds through the receiver chain until the ending receiver (as specified by the last value) is processed. If dual receivers are used at any time, the first of the receivers is used when chaining through the receivers. The Work with Journal Attributes (WRKJRNA) command can be used to show the order of the receivers in the receiver chain.

Note
If the maximum number of receivers (256) in the range is surpassed, an error occurs and no DAR report is produced.

When you specify *CURRENT, the journal receiver that is currently attached is used, or *CURCHAIN, the journal receiver chain that includes the journal receiver that is currently attached.

Note

*CURCHAIN is only valid for the starting journal receiver.

User Profile - The user profile that you would like to monitor.

*ALL - All users will be reported on

Job Name - Specify an individual job to monitor for accesses.

*ALL - All jobs will be shown on the report

Starting Date and Time - The begin date and time range for reporting. This field enables you to specify periods in which you would like to specifically monitor.

- The format of the date field is your jobs date format.
- The format of the time field is HH:MM:SS.

Report of Accessed Data (Screen 2)

DAR File Access Report (DDRPTA)

Type choices, press Enter.

Ending date and time:

Ending date

Ending time

File to receive output

Library

Replace or add records

Report open data only?

Use archived data?

Output queue

Library

Hold report on output queue . .

Run interactively?

*NONE

*LIBL

*REPLACE

*YES

*NO

QPRINT

*LIBL

*NO

*NO

Date (job date format)

Time (hhmmss)

Name, *NONE

Name, *LIBL, *CURLIB

*REPLACE, *ADD

*YES, *NO (all)

*YES, *NO

Name, *CURRENT, *USRPRF...

Name, *LIBL

*YES, *NO

*YES, *NO

Bottom

F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display

F24=More keys

Ending Date and Time - The end date and time range for reporting. This field enables you to specify periods in which you would like to specifically monitor.

The format of the date field is jobs date format.

The format of the time field is HH:MM:SS.

File to Receive Output - The name of a data file into which you would like to place the reported data.

*NONE = The reported data will not be placed into a data file.

Replace or Add Records - Specifies whether you will be adding data to a file or replacing existing data.

- *REPLACE

Replaces existing file data with new reported data.
- *ADD

Adds the new reported data to the end of the existing file.

Report Open Data Only - Reports on the file access data.

***YES** Only reports file open type transactions (journal entry types OP) only.

***NO** In addition to the file opens, clear physical file members (CLRPFM), initialize physical file member (INZPFM), delete file (DLTF), remove member (RMVM), reorganize physical file member (RGZPFM), start journal (STRJRNPF), and end journal (ENDJRNPF) type accesses are also reported.

Use Archive Data?

***YES** Include data contained in the archive file in the report.

Note: The specified starting and ending date and time fields apply to archive data and journal receiver data.

***NO** Only existing journal receiver data is considered.

Output Queue - Specify the name of the output queue where the job's spooled files are to be placed.

Hold Report on Output Queue - Lets you specify whether to hold the report file on the output queue.

***NO** Report is not held

***YES** Report is placed on hold

Run Interactively - Run interactively (RUNI) allows the reports to be run or scheduled in batch or run interactively.

***NO** Submit to batch

***YES** Run interactively

Job queue - Specifies the job queue for the batch job (if RUNI=*NO).

| | |
|-------------|------------------------------|
| *NO | Immediately submit to batch |
| *YES | Configure Job Schedule entry |

```

LIBRARY/FILE: ARP      / TESTPF4  SORT: USER      DD ACCESS REPORT      DATE: 6/28/00  PAGE: 1
REPORT SELECTION:
USER      : : *ALL
JOB/USER/NBR : : *ALL / /
FROM/TO DATE/TIME : : 010193 / 000000 -TO- 062800 / 235959
OUTPUT FILE/LIBRARY : *NONE / OPTION-
DATE/TIME STAMP USER      JOB#      JOB#      PROGRAM      SYSTEM      FILE      LIBRARY      MEMBER      UPDATE TYPE
20000607095316  RPD      QPADEV0007 335986  QCMD      ISIS      TESTPF4  ARP      TESTPF4  *NO  OP-OPEN
20000607095327  RPD      QPADEV0007 335986  QDZTD00001 ISIS      TESTPF4  ARP      TESTPF4  *YES  OP-OPEN
20000607095327  RPD      QPADEV0007 335986  QDZTD00001 ISIS      TESTPF4  ARP      TESTPF4  *YES  OP-OPEN
20000607095621  RPD      QPADEV0007 335986  QCMD      ISIS      TESTPF4  ARP      TESTPF4  *NO  OP-OPEN
20000607100339  RPD      QPADEV0007 335986  QDZTD00001 ISIS      TESTPF4  ARP      TESTPF4  *YES  OP-OPEN
20000607100339  RPD      QPADEV0007 335986  QDZTD00001 ISIS      TESTPF4  ARP      TESTPF4  *YES  OP-OPEN
20000607101250  RPD      QPADEV0007 335986  QCMD      ISIS      TESTPF4  ARP      TESTPF4  *NO  OP-OPEN
20000607104933  RPD      QPADEV0007 335986  QCMD      ISIS      TESTPF4  ARP      TESTPF4  *NO  OP-OPEN
2000060812432  RPD      QPADEV000D 336434  QCMD      ISIS      TESTPF4  ARP      TESTPF4  *NO  OP-OPEN
20000608165844  RPD      QPADEV000D 336434  QDZTD00001 ISIS      TESTPF4  ARP      TESTPF4  *YES  OP-OPEN
20000608165844  RPD      QPADEV000D 336434  QDZTD00001 ISIS      TESTPF4  ARP      TESTPF4  *YES  OP-OPEN
20000612110040  RPD      QPADEV0013 336900  QCMD      ISIS      TESTPF4  ARP      TESTPF4  *NO  OP-OPEN

```

F11 System Menu

Pressing F11 (Sys Menu) on the Work with Files screen displays the System Menu, where you can manage journals and receivers, set DAR defaults, and set authority to Data Auditing and Reporting. Data Auditing and Reporting uses iSeries journaling. Journal management functions include saving, purging, generating receivers, and viewing attributes.

```
PA31                PentaSafe Security Technologies, Inc  ANYUSER      Date:  9/18/01
                    System Menu                        QPADEV000B  Time:  8:58:07

Select one of the following:

1  Work With Journals
2  Work With Defaults
3  Switch Job Scheduler (IBM/ROBOT)
4  Work With Authority to Files
5  Archive File Generation (DDARC)
6  Archive File Purge (DDPURGE)

Enter Option or Function/Type ==> _____

F1=Help      F3=Exit      F6=Messages  F9=Window    F10=Cmd Line
F12=Previous F13=Attention F14=Batch Jobs F18=Reports
```

Option 1 Work with Journals

Work with the journals used by files being audited by Data Auditing and Reporting. You can display journal and receiver attributes, manage the receivers (delete, generate, and save) and calculate the size of the receivers.

Option 2 Work with Defaults

Options to use when journaling is started on a file and also the report processing options, such as OUTQ, JOBQ, Sort, and so on.

Option 3 Switch Job Scheduler (IBM/ROBOT)

Specify whether to use the IBM or Help/Systems Robot Job Scheduler.

Option 4 Work with Authority to Files

The files that users will be authorized to work with within Data Auditing and Reporting.

Option 5 Archive File Generation (DDARC)

Provides the ability to copy data from the journal receivers to archive files.

Option 6 Archive File Purge (DDPURGE)

Lets you purge (delete) the saved journaled data created by the Archive File Generation (DDARC) command.

```

                                DAR Archive File Purge (DDPURGE)

Type choices, press Enter.

File . . . . . *ALL      Name, *ALL
Library . . . . .      Name, *LIBL
Starting date and time:
  Starting date . . . . . > *PRVMS      Date (job date format)
  Starting time . . . . .      Time (hhmmss)
Ending date and time:
  Ending date . . . . . > *PRVME      Date (job date format)
  Ending time . . . . .      Time (hhmmss)
Job queue . . . . . *CURRENT      Name, *CURRENT, *USRPRF...
Library . . . . .      Name, *LIBL
Output queue . . . . . *CURRENT      Name, *CURRENT, *USRPRF...
Library . . . . .      Name, *LIBL
Run in Batch? . . . . . *YES      *NO, *YES

F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

File - The name of the file(s) to be purged. The following values are valid:

- *ALL** All files in the specified library containing records to be purged.
- name** The name of the file containing records to be purged.

Library - The name of the library containing the file(s) to be purged. The following values are valid:

***LIBL** A list of valid libraries from which you can choose.

name The name of the library containing the file(s) to be purged.

Starting date and time - The starting date and time of the period for which you want to purge journaled data.

Starting date - The starting date of the period for which you want to purge journaled data. The date value must be specified in your jobs date format (*JOB). The following values are valid:

date A valid date value in *JOB format.

***CURMS** The starting date of the current month.

***CURR** The current date.

***PRVDY** The date of the previous day.

***PRVME** The ending date of the previous month.

***PRVMS** The starting date of the previous month.

***PRVWK** The starting date of the previous week (last 7 days).

Starting time - The starting time of the period for which you want to purge journaled data. The time value must be specified in the format *hh:mm:ss*.

Ending date and time - The ending date and time of the period for which you want to purge journaled data.

Ending date - The ending date of the period for which you want to purge journaled data. The date value must be specified in your jobs date format (*JOB). The following values are valid:

date A valid date value in *JOB format.

***CURMS** The starting date of the current month.

***CURR** The current date.

- *PRVDY** The date of the previous day.
- *PRVME** The ending date of the previous month.
- *PRVMS** The starting date of the previous month.
- *PRVWK** The starting date of the previous week (last 7 days).

Ending time - The ending time of the period for which you want to purge journaled data. The time value must be specified in the format *hh:mm:ss*.

Job queue - The name of the job queue where you want to place the purge job.

Library - The name of the library that contains the job queue. The following values are valid:

- name** The name of the library containing the job queue.
- *LIBL** A list of valid libraries from which you can choose.

Output queue - The qualified name of the output queue to be used for spooled files.

Library - The name of the library that contains the output queue.

Run in Batch? - Whether the purge job should be executed in batch mode or interactively. The following values are valid:

- *YES** Submits the job for batch processing.
- *NO** Executes the job interactively.

Option 1 Work with Journals

If you are already journaling files, you can specify those journals on this screen.

Note

To take advantage of all the features of Data Auditing and Reporting, your other journals need to capture “*BOTH” images and omit “*NONE*”.

[illegible]

Options

1= Add - Add another journal to The Data Auditing and Reporting list of journals. Entries are automatically added to this screen if you report on files whose journal name is not on this list.

4 = Remove From List - Remove the journal from the Data Auditing and Reporting list of journals.

6 = Work With Journal Attributes - Work with journal attributes of this journal. You can view the journal receivers and the files being journaled.

Work with Journal Attributes

Journal : DDJRN Library : PSAUDIT

Auxiliary storage Receiver size options: *NONE

pool : 1

Message queue . . . : QSYSOPR

Library : *LIBL

Manage receivers . . : *USER

Delete receivers . . : *NO

Text : PentaSafe Data Auditing & Reporting

Type options, press Enter.

8=Display attributes

| | | |
|--------|-------------------|---------|
| Option | Attached Receiver | Library |
| = | DDJRN00000 | PSAUDIT |

Bottom

F3=Exit F12=Cancel F13=Display journaled files

F14=Display journaled access paths F15=Work with receiver directory

Journal - The name of the journal being displayed.

Auxiliary Storage Pool - The number of the auxiliary pool from which storage is allocated for this journal.

Message Queue - The name of the message queue associated with this journal.

Library - The name of the library containing the message queue.

Manage Receivers - Indicates how the changing of journal receivers (detaching the currently attached journal receivers and attaching new journal receivers) is managed.

Delete Receivers - Indicates whether the system deletes detached journal receivers associated with this journal when they are no longer needed for IPL recovery.

Text - The text description of the journal. This field is blank for internal system journals.

Library - The name of the library that contains the journal.

Journal Type - The type of journal. Possible values are:

***LOCAL** A local journal

***REMOTE** A remote journal

Journal State - Possible values are:

***ACTIVE** For local journals, journal entries can be deposited to this journal. For remote journals, entries can be received from a source journal.

***INACTIVE** For local journals, entries can not be deposited to this journal, unless they are designated as journal entries which must be deposited.

***FAILED** For remote journals, entries can not be received from a source journal due to a remote journal function failure. For example, a communication line failure. Before inactivating the remote journal by issuing the Change Remote Journal (CHGRMTJRN) or the Change Journal (CHGJRN) command or by calling the Change Journal State (QjoChangeJournalState) API, you may want to receive, retrieve, or display any unconfirmed entries from the journal. This value does not apply to local journals.

***INACTPEND** For remote journals, a request is being processed to set the journal state to *INACTIVE. This value does not apply to local journals.

Receiver size options - Indicates the options that affect the size of the journal receivers attached to the journal. Possible values are:

| | |
|-------------------|--|
| *NONE | No options affect the size of the journal receivers attached to the journal. All journal entries placed on the receiver are permanent. |
| *RMVINTENT | The size of the receivers attached to the journal is reduced by removing internal entries that are required only for initial program load (IPL) recovery. The internal entries are automatically removed when they are no longer required. |
| *MINFIXLEN | The size of the journal entries that are deposited into the attached journal receivers is reduced by the automatic removal of the job, program, and user profile information. |

For remote journals, this field will be blank since it has no meaning (local journals is in control of the receiver size options).

8 = Display attributes - “Option 1 Work with Journals” on page 371, shows parameters that were used in the creation of this journal and the names of the journal receiver(s) that are currently attached to this journal. You can use function keys to display lists of objects associated with this journal.

The following lists can also be requested:

- Files journaled to this journal
- Access paths journaled to this journal
- Receivers that have been used or are being used by this journal

Typing **8** next to the currently attached receivers and pressing ENTER, will display information about the receivers.

Functions

F13 = Display-Shows the Display Journaled Files screen for the selected journal.

F14 = Display journaled access paths - shows the Display Journaled Access Paths screen for the selected journal.

F15 = Work with receiver directory - Shows the Work with Receiver Directory screen for the selected journal.

8 = Gen/Save/Purge Receivers - This option simplifies the management of the journal receivers used by Data Auditing and Reporting. For more information, see “Option 1 Work with Journals” on page 371.

| | | | |
|--|---|---------|---------|
| DDDF48 | Data Auditing and Reporting Maintain Journal Receivers | 9:45:08 | 6/03/99 |
| Journal: <u>DDJRN</u> Library: <u>PSAUDIT</u> | | | |
| Delete all unattached journal receivers <u>Y</u> (Y N) If the receivers have not been saved, you will be warned that the receiver has not been fully saved-- respond with an I to ignore | | | |
| Generate a new journal receiver Y (Y N) This will detach the current journal receiver and allow it to be saved completely. | | | |
| Save the journal receivers to tape. Y (Y N) You will be prompted for your device. If you do not want to save the receivers, specify N. | | | |
| F3=Exit | | | |

Journal/Library - The Journal and Library Names can be specified. PSAUDIT/DDJRN is the journal used by Data Auditing and Reporting.

Delete All Unattached Journal Receivers - A value of “Y” will delete all those journal receivers that have been setup through Data Auditing and Reporting.

Generate a New Journal Receiver - Data Auditing and Reporting will detach the current receiver and attach a new one if this value is “Y”.

Saving Journalled Data - The journal receivers for the specified Data Auditing and Reporting journal will be saved if this value is “Y”.

Save Object (SAVOBJ)

Type choices, press Enter.

| | | |
|------------------------|-------------------|---------------------------|
| Objects | > DDJRN* | Name, generic*, *ALL |
| Library | > PSAUDIT | Name |
| Device | _____ | Name, *SAVF |
| | + for more values | |
| Object types | *ALL | *ALL, *ALRTBL, *BNDDIR... |
| | + for more values | |

Bottom

F3=Exit F4=Prompt F5=Refresh F10=Additional parameters F12=Cancel
F13=How to use this display F24=More keys

Objects - The names of one or more objects or the generic name of each group of objects to be saved. All the objects must be in the library specified on the Library prompt (LIB parameter). If the Object type prompt (OBJTYPE parameter) is not specified, all the object types listed in the description of that parameter are saved, provided they are in the specified library and have the specified names.

Library - The library where the journal receivers are located.

Note

If a journal receiver has not been saved since it was detached, you will get inquiry message CPA7025: “Receiver never fully saved (I C)”. To save it before you delete it, reply with ‘C’, then change the setting on the “Maintain Journal Receivers” prompt to “Y” for “Delete all unattached journal receivers”. If you choose not to save the detached journal, type I to ignore the message.

Device - The name of the device used for the save operation. The device name must already be known on the system by a device description.

Object Types - The types of system objects to save. For a complete list of object types that can be saved, move the cursor to the field for the Object types prompt (OBJTYPE parameter) and press the F4 key.

9 = Calculate Size of Receivers - Calculates the total storage being used by this journal. For more information, see “Option 1 Work with Journals” on page 371.

| Library | Journal Receiver | Object Type | Receiver Size in Bytes | Description |
|---------------------------|---------------------|----------------|------------------------------|-------------------------------------|
| PSAUDIT | DDJRN00006 | *JRNRCV | 151,552 | PentaSafe Data Auditing & Reporting |
| PSAUDIT | DDJRN10006 | *JRNRCV | 94,208 | PentaSafe Data Auditing & Reporting |
| Total Bytes being Used | | | | |
| TOTAL | | | | 245,760 |
| ***** End of report ***** | | | | |

Option 2 Work with Defaults

Option 2 of the System Menu lets you work with Data Auditing and Reporting Defaults.

```

DDDF01                Data Auditing and Reporting        11:34:58   6/01/00
Version: 5.2                Maintain Defaults

Journaling Options:
  Images. . . . . *BOTH      ( *BOTH *AFTER )
  Omit entries. . . . . *NONE  ( *NONE *OPNCLO )

Report Command Options:
  Output file library . QGPL      Library name
  Output file option. . *REPLACE  ( *ADD *REPLACE )
  JOBQ for report . . . QBATCH    Job queue name
  Library . . . . . *LIBL
  OUTQ for report . . . QPRINT    Output queue name
  Library . . . . . *LIBL
  Hold output . . . . . *NO      ( *NO *YES )
  Report changed      ( Y=Yes, only changed data )
  data only . . . . . Y         ( N=No, all fields marked )
  Sort of report. . . . I       ( T=Time/date J=Job U=User )
                               ( P=Program )

ENTER to Update      F3=Exit      F12=Return

```

Images

***Both** Before and After Images

***After** Only the After Images

Note

*BOTH is needed for the Data Auditing and Reporting to work properly.

Omit entries

***None** No entries are omitted

***OPNCLO** The open and close entries are omitted

Output File Library - Name of the Output file library.

Output File Option - Specifies whether data is added to or replaced in an output file.

JOBQ for Report - The name of the batch job queue to which the report will be submitted.

OUTQ for Report - The name of the output queue where the job's spooled files are to be placed.

Hold Output - Specify whether to hold the report file on the output queue.

Report Changed - This reports on the changed data for the fields you have marked for change.

Y (Yes) Only reports on fields selected for changed

N (No) Reports on all fields marked for change, whether the data has changed or not

Sort of Report - This allows you to sort for reports.

T Time/Date

J Job name

U User name

P Program name

Report Open Data Only?

Yes Only reports file open type transactions (journal entry types OP)

No In addition to the file opens, clear physical file members (CLRPFM), initialize physical file member (INZPFM), delete file (DLTF), remove member (RMVM), reorganize physical file member (RGZPFM), start journal (STRJRNPF), and end journal (ENDJRNPF) type accesses are also reported.

Option 3 Switch Job Scheduler (IBM/ROBOT)

Lets you switch between IBM and Help/System's Robot Job Scheduler.

| | | | |
|---|--|-------------------|---------------------------------|
| PA31 | PentaSafe Security Technologies System Menu | CAS QPADEV000P | Date: 6/01/00 Time: 11:42:09 |
| Select one of the following: | | | |
| 1 Work With Journals | | | |
| 2 Work With Defaults | | | |
| 3 Switch Job Scheduler (IBM/ROBOT) | | | |
| 4 Work With Authority to Files | | | |
| 5 Archive File Generation (DDARC) | | | |
| ***** | | | |
| * JOB SCHEDULER * | | | |
| * * | | | |
| * Currently using: ROBOT * | | | |
| * * | | | |
| * Press ENTER to use IBM * | | | |
| * or F3 to cancel. * | | | |
| * * | | | |
| * F3=Exit * | | | |
| ***** | | | |
| Enter Option or Function/Type ==> 3 | | | |
| F1=Help | F3=Exit | F6=Messages | |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports |

Option 4 Work with Authority to Files

Option 4 of the System Menu lets you manage the list of files which users are authorized to audit and report on using Data Auditing and Reporting.

Within Data Auditing and Reporting, all users are initially authorized to work with files. To remove this global authority, find the entry for User ID *ALL, Library *ALL, and File *ALL and type Option 4 (to Delete) next to it, and press ENTER.

```

DDRDP70                                Data Auditing and Reporting          10:10:19
                                         Authority Maintenance          6/03/99

Select option:                          Position to: _____
      4=Delete

Opt  User ID      Group      Exclude      Administrator
  _   *ALL        _   (X)      (X)         (X)
  _   *ALL        _   *ALL      *ALL         _

```

More...

F3=Exit F6=Add new user F12=Return

Options

4 = Delete - Delete the entry from the file Authority list.

Position To - Enter the partial or full user profile name to position the list.

User ID - The user profile to which file authority is granted within Data Auditing and Reporting.

Group - Specify "X" to designate this user profile as a Group Profile. All dependent user profiles will have the same authority.

Library - The location of the file to which authority is granted.

File - The name of the file to which authority is granted.

Exclude - Specify “Y” to revoke access to the file. This is ignored if a Global Authority entry exists (User ID *ALL, Library *ALL, File *ALL).

Administrator - This field is not currently used.

F6 = Add New User - Add an entry to authorize a user to a file.

DDRP70

Data Auditing and Reporting
Authority Maintenance

10:43:14
6/03/99

Select option:
4=Delete

Position to: _____

Opt

User ID

Group

Libr

-

*ALL

(X)

*ALL

Add New Authority Entry

User...: _____

Group...: _____

Library: _____

File...: _____

Exclude: _____

Admin...: _____

ENTER=Accept F12=Return

More...

F3=Exit

F6=Add new user

F12=Return

A user’s authority to a file is verified in the following sequence:

| | USER | FILE | LIBRARY |
|---|------|------|---------|
| 1 | User | file | libr |
| 2 | User | file | *ALL |
| 3 | User | *ALL | libr |
| 4 | User | *ALL | *ALL |

| | | | |
|----|-------|------|------|
| 5 | *ALL | file | libr |
| 6 | *ALL | file | *ALL |
| 7 | *ALL | *ALL | libr |
| 8 | *ALL | *ALL | *ALL |
| 9 | Group | file | *ALL |
| 10 | Group | file | *ALL |
| 11 | Group | *ALL | libr |
| 12 | Group | *ALL | *ALL |

Option 5 Archive File Generation (DDARC)

This feature provides the ability to copy data from the Journal Receivers to the Archive Files. The files must first be configured in DAR specifying Archive=Yes.

Note

Run this option before you delete any Journal Receivers, otherwise the data will not be archived and not available for DAR Reports.

```

-                                     DAR Archive File Generation (DDARC)

Type choices, press Enter.

File . . . . . *ALL      Name, *ALL
Library . . . . .      Name, *LIBL
Range of journal receivers:
  Starting journal receiver . . *CURRENT  Name, *CURRENT, *CURCHAIN
    Library . . . . .      Name, *LIBL, *CURLIB
  Ending journal receiver . . .      Name, *CURRENT
    Library . . . . .      Name, *LIBL, *CURLIB
Job queue . . . . . *CURRENT  Name, *CURRENT, *USRPRF...
  Library . . . . .      Name, *LIBL
Output queue . . . . . *CURRENT  Name, *CURRENT, *USRPRF...
  Library . . . . .      Name, *LIBL
Run in Batch? . . . . . *YES     *NO, *YES

                                     Bottom
F3=Exit  F4=Prompt  F5=Refresh  F12=Cancel  F13=How to use this display
F24=More keys
```

File - The name of the file to be archived. A special value *ALL can be used to archive all file setups in DAR as Archive=Yes.

Library - The Library where the file is located.

Range of Journal Receivers - Specifies the starting (first) and ending (last) journal receivers (the receiver range) that contain the journal entries to include. DAR starts with the starting journal receiver (as specified by the first value) and proceeds through the receiver chain until the ending receiver (as specified by the last value) is processed. If dual receivers are used at any time, the first of the receivers is used when chaining through the receivers. The Work with Journal Attributes (WRKJRNA) command can be used to show the order of the receivers in the receiver chain.

Note

If the maximum number of receivers (256) in the range is surpassed, an error occurs and no DAR report is produced.

You can specify *CURRENT, the journal receiver that is currently attached is used, or *CURCHAIN, the journal receiver chain that includes the journal receiver that is currently attached.

Note

*CURCHAIN is only valid for the starting journal receiver.

Job Queue - The job queue for the batch job (if RUNI=*NO).

Output Queue - The name of the output queue where the job's spooled files are to be placed. Hold Report on Output Queue.

Specify whether to hold the report file on the output queue.

- *NO - Report is not held
- *YES - Report is placed on hold

Run in Batch - Allows the reports to be scheduled in batch or run interactively.

- *YES - Submit to batch
- *NO - Run interactively

Option 6 Archive File Purge (DDPURGE)

The Archive File Purge option lets you delete the saved journaled data, created by the Archive File Generation (DDARC) command.

To work with Archive File Purge:

1. From the System Menu choose Option 6 Archive File Purge and press ENTER.

| DAR Archive File Purge (DDPURGE) | | |
|---|-----------------|----------------------------|
| Type choices, press Enter. | | |
| File | <u>*ALL</u> | Name, *ALL |
| Library | _____ | Name, *LIBL |
| Starting date and time: | | |
| Starting date | > <u>*PRUMS</u> | Date (job date format) |
| Starting time | _____ | Time (hhmmss) |
| Ending date and time: | | |
| Ending date | > <u>*PRUME</u> | Date (job date format) |
| Ending time | _____ | Time (hhmmss) |
| Job queue | <u>*CURRENT</u> | Name, *CURRENT, *USRPRF... |
| Library | _____ | Name, *LIBL |
| Output queue | <u>*CURRENT</u> | Name, *CURRENT, *USRPRF... |
| Library | _____ | Name, *LIBL |
| Run in Batch? | <u>*YES</u> | *NO, *YES |
| Bottom | | |
| F3=Exit F4=Prompt F5=Refresh F12=Cancel F13=How to use this display | | |
| F24=More keys | | |

2. In the entry fields, type the information (values) needed to run the command. A ‘>’ symbol beside a field indicates that the field contains a value you supply.

Where possible, a system-supplied default value is provided for each field. You can use the default value already shown in the field or type a different value over it.

3. When you have completed your entries, press ENTER to run the command. Below are options available on the above screen.

File - Specifies the name and library of the file that will be purged. This is a required parameter.

| | |
|---------------------|--|
| *ALL | All files are purged. |
| object name | Lets you specify the name of the file to be purged. |
| *LIBL | All libraries in the job's library list are searched. |
| library-name | Lets you specify the name of the library to be searched. |

Starting date and time (FROMTIME) - The begin date and time range for purge data. This field lets you specify time periods in which you would like to specifically delete data. The starting date field is in your jobs date format. The Starting time field is formatted HH:MM:SS.

| | |
|---------------|---|
| Date | A valid date value in format *Job. |
| *CURMS | Current month's starting date. |
| *CURR | Current date. |
| *PRVDY | Previous day's date. |
| *PRVME | Previous month's ending date. |
| *PRVMS | Previous month's starting date. |
| *PRVWK | Previous week's starting date within the last 7 days. |

Ending date and time (ENDTIME) - Lets you specify an end date and time range that you would like to specifically delete data. The Ending date field is in your jobs date format. The Ending time field is formatted HH:MM:SS.

| | |
|---------------|------------------------------------|
| Date | A valid date value in format *Job. |
| *CURMS | Current month's starting date. |
| *CURR | Current date. |
| *PRVDY | Previous day's date. |
| *PRVME | Previous month's ending date. |

***PRVMS** Previous month's starting date.

***PRVWK** Previous week's starting date. (the last 7 days).

Job Queue (JOBQ) - The name of the job queue in which this job is placed.

Name The name (library name/job queue name) of the job queue where the submitted job is placed

Library The name of the library where the job queue name is located.

Output Queue (OUTQ) - The name of the output queue used for spooled files.

Name The name (library name/output queue name) of the output that is used as the default output queue by the submitted job.

Library The name of the library where the output queue name is located.

Run in Batch? (BATCH) - Allows the reports to be scheduled in batch or run interactively.

***NO** Submit to batch

***YES** Run interactively

Function Keys - The following table contains function keys that are available on the prompt display and on screens associated with the prompt display. Some keys may not be active on all displays.

| Function Key | Description |
|------------------|--|
| F3=Exit | Exits the prompt display and associated displays without running the command. |
| F4=Prompt | Displays the permissible values for the entry field. If the cursor is on an entry field for a parameter of TYPE(*COMMAND) or TYPE(*CMDSTR), a prompt display for the command is shown. |

| Function Key | Description |
|--|---|
| F5=Refresh | Resets all parameters to their original default value. |
| F9=All parameters | Displays entry fields for all parameters, including those not selected by entries on previous parameters and those not commonly used. It does not show parameters which have been defined with the selective prompt character '?-'. |
| F11=Keyword or F11=Choices | Toggles between the version of the prompt display that shows possible choices and the version that shows parameter keywords. |
| F12=Cancel | Shows the previous display. |
| F13=How to use this display | Shows help for the prompt display or associated display you are currently using. |
| F14=Command string | Displays the resulting command as it would run with the parameter values currently entered. |
| F15=Error messages | Displays all error messages that pertain to the command being entered. |
| F16=Command complete | Indicates that all values needed have been entered, and requests the system to run the command without showing additional displays. |
| F24=More keys | Displays additional function keys that can be used for this display. |

Managing Journals

Journal Management Overview

i5/OS Journal Management provides the logging of data base changes to increase database integrity. Two object types are used by journal management. Journals (*JRN) and Journal Receivers (*JRNRCV).

Journals identify files and access paths being journaled, the current journal receiver, and all journal receivers on the system for the journal.

Journal receivers contain entries recording the activity for specific records (added, changed, or deleted), and for file and member operations such as opens, closes and saves. Each entry includes additional control information identifying the source of the activity, including the user, job, program, date, and time. Journal entries record before-images and after-images for changes that affect records. Journal entries cannot be changed or deleted.

Journal receivers created and attached to the journal, receive all journal entries written until a new receiver is attached. Journal receivers are linked in a chain. Each receiver has a previous receiver that was detached when it was attached, and next receiver that was attached when it was detached. Journal entries are removed from disk storage by saving a journal receiver with a FREE storage option, or deleting the journal receiver.

Journaling Costs

There are three costs to journaling.

- The performance cost to write journal entries.
- The disk space required to store the journal receivers.
- Processing requirements to manage the journaling objects.

Trade-offs between these and other costs lets you optimize your environment for your objectives.

Performance costs are similar in writing records to an arrival sequence physical file. The system packages before-images, after-images, and access paths changes into a single write operation to disk. Interactive performance is not affected by journaling, unless the system is currently experiencing disk contention problems. Batch update run times increase to some extent. Sequential processing of blocked records write blocks of journal entries and reduce the number of writes to the journal receiver.

Interactive performance can be improved by omitting file open and close entries. Sequential batch processing can be improved by blocking records. Journaling removes any need for low force write ratios (FRCRATIO) for your files. Removing or increasing FRCRATIO for your logical and physical files can improve performance.

Maximum performance can be achieved by creating a dedicated auxiliary storage pool for each journal on your system. Disk arm contention will be minimized because no other data will be written to the disk.

Disk space requirements for journaled physical files can be estimated by adding 75 bytes to the record length, and multiplying by the number of entries. An update creates 2 entries, and an add or delete 1 entry. A 125 byte file would require 1 Megabyte of disk space for each 2500 updates or 5000 adds.

Disk space requirements for access path journaling depends on the application. Applications that update, delete or add keys in an ascending or descending order use less disk space than applications that update, delete or add keys in a random order.

The major variable for disk space requirements is the time you leave the journal entries on disk. The more often you change, save, and remove journal receivers the less disk space is required.

Processing costs for journaling include creating and attaching new journal receivers, saving, deleting and restoring journal receivers, storing and tracking save media, starting journals for physical files, and/or access paths.

Journaling Benefits

The benefits of journaling far outweigh cost. Journals and forward recovery reduce the time spent backing up database files. Journal receivers isolated in a user auxiliary storage pool provide up-to-the-minute backup. Journals and transaction blackout eliminate any need to backup or copy files before update jobs. Journal entries can be extracted for audit trails, activity reports, problem determination, and program debugging.

Checksum and Disk Mirroring, used to recover your database from disk failures, are no help for program errors or disasters that destroy your computer site.

Forward recovery is an insurance policy for natural disasters such as flood, fire, windstorms, earthquakes, and programmers.

Forward recovery uses journal receivers to backup database files forward from the last database library save. Database libraries are saved less frequently, journal receivers are saved as often as necessary. Journal receivers can be saved or changed while active, allowing you to backup your database during the day with your users signed-on. Store the last library save offset, and move journal receivers saves immediately to build a firm foundation for your disaster recovery plan.

If you are not using checksum or disk mirroring, assign journals and their receivers to a user auxiliary storage pool. When a disk fails, either the database remains intact, or the journal objects through the last database update are available. In either case, no data is lost. The data is recovered by saving the database library (Journals were lost), or restoring the database and applying journaled changes (Database was lost).

When update jobs abnormally terminate due to program errors or power failures, the database can be restored to its former state with journaled before-images and the remove journal changes command.

Programs must be written to process the display journal outfile for audit trails and activity reports. The 75 bytes of control information is expanded to 125 bytes in the outfile. The entry specific data is contained in a single field whose length depends on a parameter of the display journal command.

Introduction to Journals

Detailed below is a brief overview of journaling and journal receivers.

What is a Journal?

A journal captures your database changes. A more technical definition would be a journal is a system object used to record entries in a journal receiver when a change is made to the database files associated with the journal. The system-recognized identifier for the object type is *JRN.

Journaling

Journaling is a process whereby you record database changes made to a file member in a journal. Journaling allows the programmer to reconstruct a physical member by applying the changes in the journal to a saved version of the physical file member.

Access path journaling is a method of recording changes made to an access path as changes are made to the data in the database file so the access path can be recovered automatically by the system.

Journal Receiver

A journal receiver is a system object that contains journal entries recorded when changes are made to the data in database files, or to the access paths associated with the database files. The system recognized identifier for the object type is *JRNRCV.

Valid journal entry file types are as follows:

- | | |
|---------------|--|
| Type 1 | The converted entries are formatted to include the minimum information that can be specified. |
| Type 2 | The converted entries include the information returned when <code>OUTFILFMT (TYPE1)</code> is specified, the name of the user profile for the job that generated the displayed journal entries, and the name of the system on which the output records were generated. |
| Type 3 | The converted journal entries include all the information returned when <code>OUTFILFMT (*TYPE2)</code> is specified, and the null value indicators. |

- Type 4** The converted entries include the information returned when OUTFILFMT (*TYPE 3) is specified, the journal identifier, the physical file trigger indicator, and the referential constraint indicator.
- Type 5** The converted entries include the information returned when OUTFILFMT(*TYPE4) is specified, in addition to the program library name, the program library ASP device name, the program library ASP number, the system sequence number, the logical unit of work, the transaction identifier, the thread identifier, the remote address, the address family, the remote port, the arm number, the receiver name, the receiver library name, the receiver library ASP device name, the receiver library ASP number, and the object type.

A receiver directory contains summary information about the journal receivers that are currently, or were previously attached to the specified journal, and are still known to the system.

Chapter 15

Baseline Analysis

Introduction

With Baseline Analysis, you can collect information from all areas of your system and compare it to a previous collection, run a report against the results of the comparison, and determine what is changed, new, and deleted. Baseline Analysis collections can include System, User, and DLO (Document Library Objects) information.

System Information includes:

- System libraries
- ALL System objects
- User profiles
- Authorization lists
- Line descriptions
- Commands
- System values
- Network attributes
- Network job entries
- Job schedule entries

- Subsystem routing entries
- Shared pools
- Directory entries
- Distribution routes
- Distribution queues
- Licensed products
- PTFs

User Information includes:

- User libraries
- ALL User library objects

DLO Information is includes:

- Document library objects (documents)

The best way to get Baseline Analysis to help you is to create collections on a regular schedule.

You can define reusable filters (selection criteria) to instruct Baseline Analysis precisely what information to include in a collection. The filter can also be used when producing a report or creating an output file.

Once you create at least two collections, you can designate any one collection as the “baseline” and compare it against any other collection and print a report.

The report will identify the collections and the filter used.

Case Study

To illustrate the usefulness of this product, consider the following:

Assuming one of your iSeries servers is having communication problems, a weekly transmission program fails, but it was working last week. You suspect something has changed, but that's only one of today's problems, so you don't have time to do much research.

Type **PSMENU**, select the Baseline Analysis option, and see a list of your previously created Baseline Analysis collections or snapshots. Select a week-old collection as the baseline and this past weekend's collection as the comparison collection. Submit the comparison and get a report of New, Changed and Deleted objects, system values, network attributes, etc. You notice that a Control Unit Description is changed, you identified the problem and corrected it.

Now you want to know who and what program changed the Control Unit Description. Return to **PSMENU** and select the Auditing option. Run a report of "Command Usage by User" which determines a programmer was testing a communications program and did not change the Control Unit Description back to its normal settings.

Summary

When you combine Baseline Analysis with the reporting features of the PSAudit System Auditing and Reporting feature, you have one powerful problem resolution tool on your side.

Working with Collections

To display the main Baseline Analysis panel (Work With Baseline Collections), Select Option 1 (PSAudit) from the PSMENU screen. Then, select Option 4 (Baseline Analysis). This panel displays previously created collections which can be compared against others in the list to produce a report of the differences.

| | | |
|--|------------------------------------|---------------------------------------|
| ARGUS BLRP006 | Work with Baseline Collections | 6/03/99 11:42:14 |
| Position to : _____ | | |
| Type options, press Enter. | | |
| 15=Select as Base 4=Purge Collection 5=View Criteria 17=Compare with Base | | |
| <u>Opt</u> | <u>Collection Name</u> | <u>Date</u> <u>Time</u> <u>System</u> |
| — | ALL USER LIBRARIES COLLECTION ONLY | 5/30/1999 16:09:54 ARGUS |
| — | SYSTEM INFO COLLECTION ONLY | 5/30/1999 16:09:30 ARGUS |
| Bottom | | |
| F3=Exit | F6=Create | F12=Previous |
| F15=Sort by Date | F17=Subset | F18=Change Defaults |
| F20=Work Results | F22=Work Filters | |

From this panel you can:

- Create a collection
- View a collection's creation criteria
- Compare collections and optionally print report
- Purge collections
- Sort the list of collections
- Subset the list of collections
- Change default values

- Work with results of comparisons between collections
- Work with filters

Position to - Use this prompt to go to a particular area in the list. Use it for quick repositioning of the list, not for creating a subset of the list. Type the name or partial name of the collection you want to go to in the list. The list of collections is positioned to the item immediately preceding the position you want.

Options - Type the option number next to a collection and press ENTER. You can type the same option next to more than one collection at a time, and you can also type different options next to different collections at the same time.

Choose from the following:

4 = Purge collection - Delete one or more collections.

Note

No confirmation screen is provided.

5 = View criteria - Criteria used to create the collection.

15 = Select as base - Designate this collection as the baseline for comparison against other collections.

17 = Compare with base - Designate this collection as one to be compared against the baseline collection selected with Option 15.

Function keys

F3 = Exit - End the current task and return to the previous entry point from which you originally ran the STRBL command.

F6 = Create - Create Baseline Collections panel, where you can specify the parameters.

ISIS Work with Baseline Collections 5/24/00 8

ISIS 5/24/00
BLRP010 Create Baseline Collection 16:05:51

Type choices, press Enter.

System Information . Y (Y/N)
DLO Information . . . Y (Y/N)
ALL User Libraries . Y (Y/N)
-or- only lib(s) . . . name, generic*
Filter DEFAULT
System ISIS
Jobq QBATCH Name, *JOBQ
Library *LIBL
Hold *NO *JOBQ, *NO, *YES
Collection Name . . . DEFAULT COLLECTION NAME

Enter=Submit
F3=Exit F12=Previous F18=Change Defaults
F22=Work Filters

F12 = Previous - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

F15 = Sort by (date) (system) (collection name) - Display the list sorted by the date the collection was created. Press F15 again to sort by System name. Press F15 again to sort by Collection name.

F17 = Subset - Create a subset of a list. You can specify criteria to display certain items you want to work with.

F18 = Change defaults - Change Defaults display. From here you can assign defaults to be used for creating and comparing collections and for running reports.

F20 = Work with results - Select the baseline comparison results for printing reports of the differences between the selected collections.

F22 = Work with filters - Create or change a filter.

Creating A Subset List of Collections

ARGUS
BLRP006

Work with Baseline Collections

6/03/99
11:49:59

Type

Baseline Collections Subset

15 Type choices, press Enter.

Opt

Collection Name . *ALL

— Date range . . . 1/01/0000 to 12/31/9999

— Time range . . . 0:00:00 to 23:59:59

System Name . . . *ALL *ALL, name, *generic*

F3=Exit F12=Cancel

em

Bottom

F3=Exit F6=Create F12=Previous F15=Sort by Date
F17=Subset F18=Change Defaults F20=Work Results F22=Work Filters

On the Work With Baseline Collections panel, press F17 (Subset) to create a subset of the list. The Baseline Collections Subset panel appears.

In the Collection name prompt, type in a character string to indicate that you want to display a subset of the list that includes all items with the specified character string in the Collection name, and press ENTER.

The Work With Baseline Collections panel appears with a list of all the collections with names containing the specified character string.

You can further subset the list by specifying a date range and time range for the Collection creation date and time.

The System name can also be used for the subset by specifying a system name, a generic name, or *ALL.

Generic Name

The generic name can be in one of the following formats:

ABC*

Displays a list of all items that begin with the characters ABC, for example, ABC, ABCD, or ABCTEST.

***ABC**

Displays a list of all items ending with the characters ABC, for example, ABC, DABC, or TESTABC.

PR

Displays a list of all items that have the characters PR anywhere in the name, for example, PR, PROD, or APRIL.

Function keys

F3 = Exit - End the current task and return to the previous entry point from which you originally ran the STRBL command.

F12 = Cancel - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

Changing Defaults

You can select the default values for certain operations in Baseline Analysis by using the Change Baseline Defaults display by pressing F18 (Change defaults) on the Work With Baseline Collections panel. The Change baseline Defaults display appears.

| ARGUS | | Work with Baseline Collections | 6/03/99 |
|---------------------------------------|-------------------------|-----------------------------------|----------|
| ARGUS | | | 6/03/99 |
| BLRP027 | | Change Baseline Defaults | 11:58:56 |
| Type choices, press Enter. | | | |
| Filter | DEFAULT | | |
| Outq Name | QPRINT | Name,*CURRENT,*USRPRF,*DEVD,*JOBQ | |
| Library | *LIBL | Name,*LIBL,*CURLIB | |
| Jobq | QBATCH | Name,*JOBQ | |
| Library | *LIBL | Name,*LIBL,*CURLIB | |
| Hold | *NO | *JOBQ,*NO,*YES | |
| System Information . | Y | (Y/N) | |
| Document Information. | Y | (Y/N) | |
| User Libraries Info.. | Y | (Y/N) | |
| Library | | name,*generic* | |
| Collection Name . . . | DEFAULT COLLECTION NAME | | |
| Compare Results Name. | DEFAULT RESULTS NAME | | |
| Generate Report . . . | Y | (Y/N) | |
| F3=Exit F12=Previous F22=Work Filters | | | |

The prompts on the display are filled with their original default values, unless they were previously changed.

You can specify the following default values by changing the prompts on the Change Baseline Defaults display:

- Change the default FILTER
- Change the OUTQ for reports
- Specify the library for OUTQ
- Change the JOBQ for batch jobs
- Specify the library for JOBQ
- Specify whether batch jobs are submitted with HOLD(*YES)

- Specify whether SYSTEM information is collected
- Specify whether DOCUMENT information is collected
- Specify whether ALL USER library information is collected
- Specify the USER LIBRARY to include in the collection if ALL user library information is not specified.
- Change the default COLLECTION NAME
- Change the default COMPARE RESULTS NAME
- Specify whether a report is always generated as a result of a collections comparison.

The defaults can also be changed when using any of the following displays:

- Create Baseline Collection
- View Collection Details
- Work With Baseline Compare Results
- Create Baseline Compare Results

Function keys

F3 = Exit - End the current task and return to the previous entry point from which you originally ran the STRBL command.

F12 = Previous - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

F22 = Work with filters - Display the Select Filter To Work With panel, where you can create or change a filter.

Working with Results of Collections Comparisons

You can print the results of a baseline comparison by selecting the results file from the Work With Baseline Compare Results panel. To get to this panel, use F20 (Work results) on the Work With Baseline Collections panel.

From this panel you can also select results to purge from Baseline Analysis.

| | | |
|-------------------------------|------------------------------------|---------------------------------------|
| ARGUS BLRP026 | Work with Baseline Compare Results | 6/30/99 13:42:05 |
| Position to : _____ | | |
| Type options, press Enter. | | |
| 4=Purge Results | | |
| 6=Print Report | | |
| <u>Opt</u> | <u>Compare Results Name</u> | <u>Date</u> <u>Time</u> <u>System</u> |
| — | DEFAULT RESULTS NAME | 6/04/1999 8:29:58 ARGUS |
| | | Bottom |
| F9=Exit | F12=Previous | F15=Sort by Date |
| F17=Subset | F18=Change Defaults | F22=Work Filters |

Position to - Use this prompt to go to a particular area in the list. Use it for quick repositioning of the list, not for creating a subset of the list. Type the name or partial name of the Compare Results you want to go to in the list. The list of Compare Results is positioned to the item immediately preceding the position you want.

Opt - Use this column to perform different operations on individual Compare Results. Type the option number next to a Compare Results and press ENTER. You can type the same option next to more than one Compare Results at a time, and you can also type different options next to different Compare Results at the same time. Choose from the following:

4 = Purge results - To purge one or more Compare Results. No purge confirmation panel is displayed.

6 = Print report - To print a report of the differences between or amongst collections that were previously compared.

Function keys

F3 = Exit - End the current task and return to the previous entry point from which you originally entered Baseline Analysis.

F12 = Previous - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

F15 = Sort by (date) (system) (results name) - Display the list sorted by the date the Compare Results was created. Press F15 again to sort by System name. Press F15 again to sort by Results name.

F17 = Subset - Create a subset of a list. You can specify criteria to display certain items you want to work with.

F18 = Change defaults - Display the Change Defaults display. From here you can assign defaults to be used for creating and comparing collections and for running reports.

F22 = Work with filters - Display the Select Filter To Work With panel, where you can create or change a filter.

Baseline Comparison Report

This report identifies the changes between a baseline collection and the compared collection(s).

To print a report, select a Compare Results file with Option 6 from the Work With Baseline Compare Results panel or by typing Y on the Generate Report prompt on the Create Baseline Compare Results panel.

| | | |
|---------|------------------------------------|---------|
| ARGUS | Work with Baseline Compare Results | 6/04/99 |
| BLRP026 | | 9:18:10 |

| | | |
|--|------------------------|---|
| T | ARGUS | 6/04/99 |
| | BLRP026 | 9:18:28 |
| Print Baseline Compare Results | | |
| Type choices, press Enter. | | |
| 0 | Compare Results Name . | DEFAULT RESULTS NAME |
| 6 | Filter | DEFAULT |
| | Outq Name | QPRINT Name,*CURRENT,*USRPRF,*DEVD,*JOB |
| | Library | *LIBL Name,*LIBL,*CURLIB |
| | Jobq Name | QBATCH Name,*JOB |
| | Library | *LIBL Name,*LIBL,*CURLIB |
| | Hold | *NO *JOB, *NO, *YES |
| Enter=Submit | | |
| F3=Exit F12=Cancel F18=Change Defaults | | |
| F22=Work Filters | | |

| | | | |
|---|------------|---------------------|------------------|
| F | F17=Subset | F18=Change Defaults | F22=Work Filters |
|---|------------|---------------------|------------------|

Compare Results Name - The name given to the results file of a new comparison.

Filter - Specifies the name of the filter used when generating the report.

Outq Name - The name of the output queue to which all Baseline Analysis jobs are submitted.

Library - The library name for the output queue.

Jobq Name - The name of the Job queue to which all Baseline Analysis reports are routed.

Hold - Specifies whether submitted jobs are held in the jobque to be released later. The following is a partial report sample and its explanation:

Results File Header Information

System - The system on which the collections were compared, generating a results file from which the report was generated.

Report Filter - The filter used for producing the report, which can be different from the filter used for creating a collection.

Collections File Header Information

File - The first entry under the File column identifies the name of the collection selected as the baseline (Base) for comparison against the collection(s) listed after the first entry (Base).

System - The system on which the collection was created.

Date/Time - The date and time when the collection was created.

Filter used - The filter used for creating the collection.

Sys - Specifies whether the collection was created including System Information.

DLO - Specifies whether the collection was created including DLO (Document Library Object) Information.

Usr - Specifies whether the collection was created including ALL User Library Information.

Lib - The name or generic name of the user library included in a collection if one was specified. A library can only be specified when the All User Libraries prompt is “N” when a collection is created, in which case there will be an “N” under the “Usr” column of the report.

Report Detail Headers

System - Identifies the system name of the exception record. If the Status column shows “CHANGED” or “DELETED”, then this is the system name from the Base collection, else it’s the system name of the compared collection.

Library - The library where the object resides or from which it was deleted.

Obj Type - Identifies the object type of the object.

Obj Attr - Identifies the object attribute of the object.

Obj Name - Identifies the name of the object.

Crt Date - The date on which the object was created.

Crt Time - The time of object creation.

Chg Date - Identifies the date on which the object was last changed prior to it being included in the collection.

Chg Time - The time the object was last changed prior to it being included in the collection.

Status - Identifies whether the object was CREATED, CHANGED, or DELETED.

Notes

- The following object types are not IBM object types. They are used only to identify the type of information contained in the record when the contents do not pertain to an IBM object type: *DIRE, *DSTQ, *JOBSCDE, *LICPRD, *NETA, *NETJE, *PTF, *RTE, *SBSRTGE, *SHRPOOL and *SYSVAL
 - The following headers do not apply to entries having the aforementioned object types: “Library”, “Obj Type”, “Obj Attr”, “Crt Date”, “Crt Time”, “Chg Date”, and “Chg Time”.
-

Working with Filters

You can create filters to specify the information that is to be included or omitted from a collection and a report. To get to this panel, use F22 (Work filters) on the Work With Baseline Collections panel.

| | | |
|---|--------------------|--------------------|
| ARGUS | Work with Filters | 6/30/99 |
| BLRP050 | | 14:26:44 |
| Position to: _____ | | |
| Type options, press Enter. | | |
| 2=Change Filter 4=Delete Filter | | |
| <u>Opt</u> | <u>Filter Name</u> | <u>Description</u> |
| — | ALE01 | TEST NEW FILTER |
| — | DEFAULT | DEFAULT FILTER |
| F3=Exit F6=Create Filter F8=Limit View to DEFAULT F12=Return | | |

A filter named DEFAULT is provided with the product. From this panel you can also delete filters. You can work with filters when using any of the following displays:

- Change Baseline Defaults
- Create baseline Collection
- View Collection Details
- Work With Baseline Compare Results

Position to

Go to a particular area in the list. Use it for repositioning of the list, not for creating a subset of the list. Type the name or partial name of the Filter you want to go to in the list. The list of filters is positioned to the item immediately preceding the position you want.

Opt - Perform different operations on individual filters. Type the option number next to a filter and press ENTER. You can type the same option next to more than one filter at a time, and you can also type different options next to different filters at the same time. Choose from the following:

- **2 = Change Filter** - Select a filter to view or change.
- **4 = Delete** - Delete one or more filters. No delete confirmation panel is displayed.

Function keys

F3 = Exit - End the current task and return to the previous entry point from which you originally entered Baseline Analysis.

F6 = Create - Display the Add New Filter panel, where you can specify the new filter name and description.

F8 = Limit view to DEFAULT - Display only the filter named DEFAULT.

F12=Previous - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

Creating A Filter

Filters are used for specifying the information that is to be included or omitted from a collection and a report.

To get to the Add New Filter panel, use F22 (Work filters) from any one of the following displays:

- Work With Baseline Collections
- Change Baseline Defaults

- Create Baseline Collection
- View Collection Details
- Work With Baseline Compare Results

Then, press F6 to create a new filter.

| | | |
|---|----------------|--------------------|
| ARGUS BLRP050 | Add New Filter | 6/04/99 9:29:30 |
| <p>Filter Name.: _____</p> <p>Description.: _____</p> | | |
| <p>F3=Exit F12=Return</p> | | |

Enter a filter name and a description, then press ENTER. The Filter Definition panel will be displayed.

Filter Name - Type the name of the filter you want to create. You can enter up to 10 characters.

Description - Type the a short description for the filter you want to create. You can enter up to 30 characters.

Function Keys

3 = Exit - End the current task and return to the previous entry point from which you originally entered Baseline Analysis.

F12 = Previous - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

Defining a Filter - Use the Filter Definition panel to specify the information that is to be included or omitted from a collection and a report.

ARGUS
BLRP050

Filter Definition

6/04/99
9:32:59

Filter name.: ALE01

Description.: TEST NEW FILTER

| AND/OR | Field | Operator | Value (quotes are not needed) |
|--------|-------|----------|-------------------------------|
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

F3=Exit

F4=Select Fields

F10=Display Op Codes

F12=Return

AND/OR - Use the AND and OR values, as needed, between pairs of comparison tests to indicate how the comparisons are to be related and grouped. Leave this column blank if you define only one comparison for this query.

An AND value indicates that the pair of tests must both be true before the results of the AND can be true. An OR value indicates that only one of the tests needs to be true for the results of the OR to be true. For each pair of comparisons, Query assumes an AND value if you do not specify one for a comparison test.

If no ORs are specified, only records that meet all of the defined comparison tests are selected for the query. If you want to select all records that meet at least one of the tests, specify Or to connect each one of the tests.

When you use both ANDs and ORs, each OR separates groups of comparisons connected by ANDs. Starting from the first comparison test, if the results of all the AND comparisons done between two ORs are all true, Query stops comparing and selects that record. If the test results are not all true, Query continues comparing the next group of ANDs.

Field - For each comparison test, type the name of the field to be tested. Use only field names that are in the following list, which is displayed when F4 is pressed.

| FIELD | DESCRIPTION | TYPE | LEN | DEC |
|--------|------------------------------|------|-----|-----|
| SDCHGD | CHANGE DATE (CYMD FORMAT) | S | 8 | 0 |
| SDCHGT | CHANGE TIME | S | 6 | 0 |
| SDCRTD | CREATEDATE (CYMD FORMAT) | S | 8 | 0 |
| SDCRTT | CREATETIME | S | 6 | 0 |
| SDLIBR | LIBRARY NAME | A | 10 | |
| SDOBJA | OBJECT ATTRIBUTE | A | 10 | |
| SDOBJD | OBJ OR DOC NAME | A | 10 | |
| SDOBJT | OBJECT TYPE | A | 8 | |
| SDRCDT | RECORD TYPE | A | 2 | |
| SDSSDT | SNAP SHOT DATE (CYMD FORMAT) | S | 8 | |
| SDSSTM | SNAP SHOT TIME | S | 6 | |
| SDSYSN | SYSTEM NAME | A | 8 | |

Notes

- The following object types are not IBM object types. They are used only to identify the type of information contained in the record when the contents do not pertain to an IBM object type: *DIRE, *DSTQ, *JOBSCDE, *LICPRD, *NETA, *NETJE, *PTF, *RTE, *SBSRTGE, *SHRPOOL and *SYSVAL
 - The following fields do not apply for selection for entries having the aforementioned object types: SDLIBR, SDOBJT, SDOBJA, SDCRTD, SDCRTT, SDCHGD and SDCHGT.
-

Operator Value (Test) - For each comparison test, use the following test values to check the contents of the field on the left:

| Test | How Left Field Must Compare to Right Value |
|-------------|---|
|-------------|---|

| | |
|----|--------------------------|
| EQ | Equal |
| NE | Not equal |
| GT | Greater than |
| LT | Less than |
| GE | Greater than or equal to |
| LE | Less than or equal to |
| CT | Contains |

Value (Number or Characters) - For each comparison test, type the value to be compared with the tested field. The contents of the field named on the left are tested in each record against the value or list of values specified here to determine whether that record is selected for the query. The value can be one of the following: a numeric constant, SBCS constant, or a pattern value.

For example, SDCRTD GT 19970628 is a comparison test in which a numeric value of 19970628 is used. Records are selected only if the SDCRTD field contains a value greater than 19970628. Examples of comparison tests using different types of values are:

Numeric constants:

- SDCRTD LT 19970101
- SDCRTT GT 170000

SBCS character constants:

- SDLIBR EQ PAYROLL
- SDOBJT NE *OUTQ

Function Keys

F3 = Exit - End the current task and return to the previous entry point from which you originally ran the STRBL command.

F4 = Select Fields - Lists the fields valid for selection.

F10 = Display Op Codes - Display a window listing the valid operation codes.

F12 = Previous - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

Creating A Baseline Collection

| ARGUS | | Work with Baseline Collections | | 6/04/99 | |
|----------------------------|-----------|--------------------------------|------------------|---------------------|--|
| | | | | 0 | |
| ARGUS | | Create Baseline Collection | | 6/04/99 | |
| BLRP010 | | | | 9:38:24 | |
| Type choices, press Enter. | | | | | |
| System Information | . Y | (Y/N) | | | |
| DLO Information | . . Y | (Y/N) | | | |
| ALL User Libraries | . Y | (Y/N) | | | |
| -or- only lib(s) | . . | | name, generic* | | |
| Filter | | DEFAULT | | | |
| System | | ARGUS | | | |
| Jobq | | QBATCH | Name, *JOBQ | | |
| Library | | *LIBL | | | |
| Hold | | *NO | *JOBQ, *NO, *YES | | |
| Collection Name | . . . | DEFAULT COLLECTION NAME | | | |
| Enter=Submit | | | | | |
| F3=Exit | | F12=Previous | | F18=Change Defaults | |
| F22=Work Filters | | | | | |

Press F6 from the Work With Baseline Collections panel to display the Create Baseline Collection prompt.

Baseline Analysis Collections can include System, User, and DLO (Document Library Objects) information.

The panel is initially displayed with the default values specified in the Baseline Analysis Defaults panel. If a prompt is left blank on the Create Baseline Collection panel, its default value will be used if appropriate.

Enter the desired prompt values and press ENTER to submit the Create Baseline Collection job. The submitted job name is always BL.COLLECT.

System Information - Specify a "Y" (Yes) to instruct Baseline Analysis to capture system-related information which will include:

- System libraries
- ALL System objects

- User profiles
- Authorization lists
- Line descriptions
- Commands
- Folders
- System values
- Network attributes
- Network job entries
- Job schedule entries
- Subsystem routing entries
- Shared pools
- Directory entries
- Distribution routes
- Distribution queues
- Licensed products
- PTFs

System libraries are those created by user *IBM, QSYS, or QLPINSTALL. Although library QDOC is a system library, it is not included here because it contains user objects which are included in the DLO part of a collection.

DLO Information - Specify a “Y” (Yes) to instruct Baseline Analysis to capture DLO (Document Library Object) information which is comprised of:

- Documents (*DOC)
- Distribution documents (*DST)
- Folders (*FLR)

User Information - Specify a “Y” (Yes) to instruct Baseline Analysis to capture user-related information which is comprised of:

- User libraries
- ALL User library objects

Library - If you choose not to collect ALL user library information by specifying a “N” (No) for the User Library Info prompt, then you can choose to collect information on a specific library name or generic library name by entering that library name here.

Examples of library names:

| | |
|--------------------------------|--------|
| Specific library name: | APLIB |
| Generic library name: | APLIB* |
| Generic pattern search: | *PLIB* |

Filter - Filter containing the selection criteria of the information to be included in a collection or a report.

System - Name of the system on which the information is collected.

Jobq - Name of the jobque to which all Baseline Analysis jobs are submitted.

Library - Name of the library containing Jobque.

Hold - Specifies whether submitted jobs are held in the jobque to be released later.

Collection Name - Specifies the name given to a new collection.

Function keys

Enter = Submit - Submits job to be run.

F3 = Exit - End the current task and return to the previous entry point from which you originally ran the STRBL command.

F12 = Previous - Press F12 to cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

F18 = Change defaults - Show the Change Defaults display. Assign defaults to be used for creating and comparing collections and for running reports.

F22 = Work with filters - Create or change a filter.

Comparing Collections

Comparing collections will yield a comparison result file from which a report of the differences can be produced.

To compare one or more collections to a baseline, from the Work With Baseline Collections panel, select one collection as a baseline by typing Option “15” (Select as baseline) next to it and typing “17” next to the collection(s) to be compared to the baseline, and press ENTER. The Compare Baseline Collections panel is displayed.

| | | |
|------------------|--------------------------------|--------------------|
| ARGUS BLRP006 | Work with Baseline Collections | 6/04/99 9:43:07 |
|------------------|--------------------------------|--------------------|

| | | |
|-----------------------|------------------------------|--------------------|
| ARGUS T BLRP025 | Compare Baseline Collections | 6/04/99 9:51:47 |
|-----------------------|------------------------------|--------------------|

Type choices, press Enter.

0 Compare Results Name . DEFAULT RESULTS NAME

1 Generate Report . . . Y (Y/N)

1 Report Filter . . . DEFAULT

- Outq Name QPRINT Name,*CURRENT,*USRPRF,*DEVD,*JOB

Library *LIBL Name,*LIBL,*CURLIB

Jobq Name QBATCH Name,*JOB

Library *LIBL Name,*LIBL,*CURLIB

Hold *NO *JOB,*NO,*YES

Enter=Submit
F3=Exit

F12=Cancel F18=Change Defaults

F
F17=Subset F18=Change Defaults F20=Work Results F22=Work Filters

The panel is initially displayed with the default values specified in the Baseline Analysis Defaults panel. If a prompt is left blank on the Create Baseline Compare Results panel, its default value will be used, if appropriate.

Enter the desired prompt values and press ENTER to submit the batch job to compare the selected collection(s) against the selected baseline.

Compare Results Name - Specifies the name given to the results file of a new comparison.

Generate Report - Specify a “Y” (Yes) to produce a report after the collections are compared. If “N” is specified, a report can be generated later after the Compare Results File is created by selecting the Compare Results File from the Work With Baseline Compare Results panel.

Report Filter - The filter used when generating the report

Outq - Jobque to which all Baseline Analysis jobs are submitted.

Library - The library for the output queue.

Jobq - Output queue to which all Baseline Analysis reports are routed.

Library - Specifies the library name for the Jobque.

Hold - Specifies whether submitted jobs are held in the jobque to be released later.

Function Keys

F3 = Exit - End the current task and return to the previous entry point from which you originally ran the STRBL command.

F12 = Previous - Cancel processing of any options or changes that you have made to the current display, and go back to the previous display.

F18 = Change defaults - Display the Change Defaults display. From here you can assign defaults to be used for creating and comparing collections and for running reports.

Viewing a Collection's Creation Criteria

To see the parameter values used when a collection was created, from the Work With Baseline Collections panel, type Option 5 (View criteria) next to a collection name and press ENTER.

| ARGUS | | Work with Baseline Collections | | 6/04/99 | |
|--|--|--------------------------------|--|---------|--|
| | | | | 5 | |
| ARGUS | | View Collection Details | | 6/04/99 | |
| BLRP006 | | | | 9:58:07 | |
| System Information . . N (Y/N) | | | | | |
| DLO Information . . . N (Y/N) | | | | | |
| ALL User Libraries . Y (Y/N) | | | | | |
| -or- only lib(s) . . . | | | | | |
| Filter DEFAULT | | | | | |
| System ARGUS | | | | | |
| Jobq QBATCH | | | | | |
| Library *LIBL | | | | | |
| Baseline Name ALL USER LIBRARIES COLLECTION ONLY | | | | | |
| Job Name BL.COLLECT/GAS/365905 | | | | | |
| Job Status FINISHED | | | | | |
| Job Run Date/Time . . 5/30/1999 16:44:25 - 5/30/1999 17:17:13 | | | | | |
| F3=Exit F12=Previous | | | | | |
| F3=Exit F6=Create F12=Previous F15=Sort by Date | | | | | |
| F17=Subset F18=Change Defaults F20=Work Results F22=Work Filters | | | | | |

The panel shows the values used for prompt fields when the collection was created. These values are from history and cannot be changed. For additional information, refer to the section titled “CREATING A BASELINE COLLECTION”.

System Information - A “Y” (Yes) indicates that the collection includes system-related information, such as system libraries and their objects, system values, network attributes, etc.

DLO Information - A “Y” (Yes) indicates that the collection includes DLO (Document Library Object) information, which consists of documents, distribution documents and folders.

User Information - A “Y” (Yes) indicates that the collection includes user-related information, which is comprised of user libraries and their objects.

Library - If a collection does not include ALL user library information ("N" (No) in the User Library Info prompt), then this field can contain a specific library name or generic library name for which object information is collected.

Filter - The filter containing the selection criteria of the information that was included in the collection.

System - The system on which the information was collected.

Jobq - The jobque that the Create Baseline Collection job was submitted to.

Library - The library containing Jobque.

Baseline Name - The name given to the collection when it was created.

Job Name - Identifies the qualified name of the batch job which created the collection.

Job Status - Indicates the status of the Create Baseline Collection job.

JOB QUEUED - The job is not running. It is in the batch job queue waiting to run. It is also possible the job was terminated before becoming active. If this is the case, purge the collection to delete the job information.

RUNNING - The job is active and running. It is also possible the job was terminated before becoming active. If this is the case, purge the collection to delete the job information.

FINISHED - The job has finished and the collection is complete.

Job Run Date/Time - This indicates when the job started and when it finished. No adjustment is made for jobs held while active.

Function Keys

F3 = Exit - End the current task and return to the previous entry point from which you originally ran the STRBL command.

F12 = Previous - Cancels processing of any option or changes that you have made to the current display, and go back to the previous display.

Chapter 16

Utilities Menu

Use this menu to control and view authorities to NetIQ products and specific menus and options.

```
PC0                               NetIQ Corporation           Date:  9/03/08
                                PentaSafe Utilities           QPADEV000J  Time: 11:54:07

Select one of the following:

 1  Authorize users to products
 2  Maintain Option Authorities
 3  VigilEnt Agent Access Control

11  Display PSAudit authorized users
12  Display PSSecure authorized users
13  Display PSDetect authorized users
14  Display PSCOMMON authorized users
15  Display PSPrvMgr authorized users

20  Install Evaluation Data

Enter Option or Function/Type ==> _____

F1=Help      F3=Exit      F6=Messages  F9=Window    F10=Cmd Line
F12=Previous F13=Attention F14=Batch Jobs F18=Reports
```

Option 1 Authorize Users to Products

Prompts for the users and products to be authorized. This option will run in batch.

Set Penetration Authority (PSSETAUTH)

Type choices, press Enter.

| | | |
|----------------------------------|-------------|---------------------|
| User | _____ | Name |
| Product | *ALL_____ | *ALL, PSA, PSS, PSD |
| Authority | *GRANT_____ | *GRANT, *REVOKE |
| Authority administrator? | *NO | *YES, *NO |

F9-Exit

F4-Prompt

F5-Refresh

F12-Cancel

F19-How to use this display

F24-NAME keys

Bottom

User - The user(s) to whom authority will be granted or revoked from. This is a required parameter.

Product - Specify the Product ID or *ALL.

Authority - Specify the Authority as either *GRANT or *REVOKE.

Authority Administrator - Specify whether the user will be an Authority Administrator. *YES means the user will be able to grant product authority to others. This option will run in batch.

Option 2 Maintain Option Authorities

Allows security maintenance of the authorities on the menus and options using PSSecure's Secure Menuing System (SMS).

| | | | |
|----------|--|-------------------|---------------------------------|
| AUTOMENU | PentaSafe Security Technologies Menu & Security Main Menu | CAS QPADEV0000 | Date: 6/12/00 Time: 15:49:13 |
|----------|--|-------------------|---------------------------------|

Select one of the following:

- 1 Applications Menu
- 2 Function/Options Menu
- 3 User Security & Administration
- 4 Audit Menu
- 5 Reports Menu
- 6 Select Other Application

Enter Option or Function/Type ==> _____

| | | | | |
|--------------|---------------|----------------|-------------|--------------|
| F1=Help | F3=Exit | F6=Messages | F9=Window | F10=Cmd Line |
| F12=Previous | F13=Attention | F14=Batch Jobs | F18=Reports | |

Following is a sample scenario of objectives:

Grant USER01 access only to:

- System Auditing and Reporting Menu, Options 2, 3, and 4
- Objects Report Menu, all options
- File/Member Reports Menu, all options
- Library Reports Menu, all options
- Baseline Analysis
- Grant USER02 full access to all menus and options.

To accomplish the objectives above, perform the following steps:

1. From the Product Access Menu (PSMENU), select Option 70 (Utilities menu).
2. From the Utilities Menu, select Option 2 (Maintain Option Authorities).
3. If USER01 is not set up in SMS:
 - Select Option 3 (User Security & Administration) from the “Menu & Security Main Menu”.
 - Select Option 1 (Work With Users) from the “User Security & Administration” menu.
 - Scroll through the list of users to confirm whether USER01 is set-up.

If it is not set up, press F8 (Add) to add the user.

Note

The user must be a valid *USRPRF.

For this exercise, enter the User Name, leave Group Profile= blank, Special Authority = *NO, Default Appl/Func/Type = PC/PSMENU/*MNU respectively. If it is set up, select Option 1, then verify the parameters are as specified above.

To return to the “Menu & Security main Menu” press F12 (Previous).

4. From the Menu & Security Main Menu, select Option 6 (Select Other Application).
5. Select application code “PA” (PSAudit) and press ENTER. The Menu & Security Main Menu is displayed next with application code “PA” shown in the upper left of the screen.

6. Activate security and authorization checks for the application “PSAudit”.

Note

When security and authorization checks are activated for an application, access authorities for all users of that application will need to be specified either at the user level (global) or at the specific menu/option levels. Unless access is explicitly authorized at either the user level or menu/option level, the users access requests will be rejected.

- Select Option 1 (Applications Menu) from the “Menu & Security Main Menu”.
- Select Option 3 (Update Application) from the “Applications Menu”.
- Specify *YES for the parameter “Check Authority” and press ENTER.
- To return to the “Menu & Security Main Menu” press F12 (Previous).
- After selecting Option 9 for one of the menus listed above (7,d), press ENTER, the “Function User Authority List” will be displayed. Scroll through the list until you find USER01 and enter Option 1 (Grant Auth) next to it and press ENTER. This will grant the user access to the menu. Press F12 (Previous) to return to the “Work With Menus” screen.
- This must be repeated for each of the menus specified above (7,d).

7. Grant USER01 access to the menus listed in the objectives.

- Select Option 2 (Function/Options Menu) from the “Menu & Security Main Menu”.
- Select Option 2 (Work With Menus) from the “Function/Options Menu”.

- From the “Work With Menus” screen select, one by one, all of the menus listed under the Function Code column by entering Option 1 (Select) by each of the function codes and typing ENTER. For each of the selected functions (menus) verify that the Check Authority parameter = *YES and the Public Authority parameter = *NO.
- Next, from the “Work With Menus” screen, select the following menus (listed under the Function code column) by entering Option 9 (User Security), one by one, by each of the function codes. Press ENTER.

| | |
|--------------|-------------------------------|
| PAOP | Audit Main Menu |
| PA1 | System Auditing and Reporting |
| PA12 | Object Reports Menu |
| PA121 | More Object Authority Reports |
| PA13 | File/Member Reports Menu |
| PA14 | Library Reports Menu |

8. Grant USER01 access to the options listed on each of the menus specified in (7,d).

- To return to the “Functions/Options Menu”, press **F12** (Previous).
- Select Option 1 (Work With Cmds & Programs) from the “Functions/Options Menu”.
- Find each menu option and enter Option 9 (User Security) next to it and press ENTER. The “Function User Authority List” will be displayed.

- From the “Function User Authority List”, scroll through the list USER01 is found and enter Option 1 (Grant Auth) next to it and press ENTER. This will grant the user access to the function/menu option. Press F12 (Previous) to return to the “Work With Commands & Programs” screen.
- Repeat steps 8C and 8D for each of the menu options/functions for which authority/access is to be granted.

9. Grant USER02 full access to all menus and options.

- Select Option 3 (User Security & Administration) from the “Menu & Security Main Menu”.
- Select Option 1 (Work With Users) from the “User Security & Administration” menu.
- Scroll through the list of users to confirm whether USER02 is set-up.

If it is not set up, select function key F8 (Add), add the user.

Note

The user must be a valid *USRPRF.

For this exercise, enter the User Name, leave Group Profile = blank, Special Authority = *YES, Default Appl/Func/Type = PC/PSMENU/*MNU respectively.

If it is set up, select Option 1, then verify the parameters as specified above.

Note

By specifying Special Authority = *YES for USER02, this will grant USER02 access/authority to all menus and options.

Option 3 VigilEnt Agent Access Control

The VigilEnt Security Agent Access Control is used to control access to the VigilEnt Security Agent by verifying the IP addresses of authorized host systems. To begin using the VigilEnt Security Agent Access Control, the appropriate IP addresses of authorized host systems must be specified using this option. By using this option, you can also edit or delete the IP addresses of existing authorized host systems.

The VigilEnt Security Agent Access Control enables applications such as the Secure Configuration Manager to access data from an iSeries system.

Option 11 Display PSAudit authorized users

Displays the list of users authorized to the PSAudit product and the users' authority, as well as the public authority

Option 12 Display PS Secure authorized users

Presents the Authorization List Display for PSSECURE.

Option 13 Display PSDetect authorized users

Presents the Authorization List Display for PSDETECT.

Option 14 Display PS COMMON authorized users

Presents the Authorization List Display for PS COMMON.

Option 15 Display PSrvMgr authorized users

Presents the Authorization List Display for Privilege Manager.

Option 20 Install Evaluation Data

Installs sample data files to use with the *Trial Guide for NetIQ Security Solutions for iSeries*.

Other Utility Options

Save Spool File Utility

The primary purpose of this utility is to facilitate the transfer of large spool files from an iSeries to a PC so they can be included as attachments to e-mail for Technical Support.

Set Up

To prepare the utility for use, run the following command:

```
CALL PSCOMMON/PSSAVSPLFS
```

This program will:

- Create a data queue named PSSAVSPLF in library QGPL.
- Create an output queue named PSSAVSPLF in library QGPL.
- Add a directory entry (required by QDLS) for user running the Setup program.
- Create a folder named PENTASF and a subfolder named PSSPLF.
- Grant authority to the folder and subfolder using authorization list PSCOMMON.

Using The Save Spool File Utility

Move the desired spool files to out queue PSSAVSPLF.

- The spool files must be in RDY status. Each time a spool file is changed to RDY status, it will get saved.
- A maximum of 99 spool files can be processed at one time.

To convert the spool files to database members, run the following command:

PSCOMMON/PSSAVSPLF

The spool files will be saved to members in file QGPL/PSSAVSPLF.

To transfer the spool file database members to documents, run the following command:

PSCOMMON/PSTFRMBR

The spool file documents will be copied to folder PENTASF/PSSPLF in the QDLS file system. The documents will have an extension of “.txt” and will be named as follows:

MCYDDDnn, where:

- “M” = Literal ‘M’
- “C” = Century: 0=19xx, 1=20xx
- “Y” = Second digit of the Julian Year, such as 98
- “D” = Julian Day
- “n” = Sequence Number

Attaching Spool File Documents To an Email

Use the “Insert” feature of your email software to attach the desired spool file documents to your email. The following instructions are based on Microsoft Outlook.

To attach spool file documents to an email:

1. In your email message, from the Insert menu select **File**.
2. In the **Look in** filed, select **My Network Places**.
3. Find and double click the desired iSeries system (takes a few seconds)
4. Double click on QDLS
5. Double click on PENTASF
6. Double click on PSSPLF
7. Double click on the desired spool file document

Tips:

- A Web browser can also be used to view the spool files documents, as in the following example: \\system.domain.com\QDLS\PENTASF\PSSPLF
- A spool file document can be copied to diskette using the “Quick copy” or “send to” feature by right-clicking on it in the browser’s list view.

Technical

Default values used by this utility are stored in data area PSCOMMON/PSSAVSPLF, which breaks down as follows:

01 - 10: Data queue

11 - 20: Data queue library

21 - 30: Output file

31 - 40: Output file library

41 - 43: Output file record length (132 or 198)

44 - 44: Delete spool file after saving to database member? Y/N

45 - 45: Remove database member after copying to folder? Y/N

46 - 95: Folder path

96 - 98: Document extension (txt)

99 - 100: Reserved for next mbr seq nbr

101-110: Output queue used by utility

111-120: Output queue library

You may change the data area values before running program PSCOMMON/
PSSAVSPLFS.

If spool files are unintentionally sent to the PSSAVSPLF outque, it is recommended that you delete the data queue (DLTDTAQ QGPL/PSSAVSPLF) and rerun the setup program.

Program PSSAVSPLFS can be run as needed to recreate objects used by the utility, for example, if the PSSAVSPLF outque or data queue is deleted.

Removing Documents

The documents in the QDLS file system can be removed using either the “Network Neighborhood” on the PC or the Work with Folders (WRKFLR) command on the iSeries.

To remove a document using the iSeries command line:

1. At a command entry line, type: **WRKFLR PENTASF**, press **Enter**.
2. Select Option 5 (Work with documents) for folder PSSPLF, press **Enter**.
3. Select all documents with Option 4 (Delete), press **Enter**.
4. Press **Enter** again at the Confirmation prompt.
5. Press F3 (exit) as necessary until you return to the command entry line.

Creating A Batch Subsystem

Command PSWORK can be used to create or delete a batch subsystem named PSWORK in library PSCOMMON. The related objects of type *CLS and *JOBQ are also named PSWORK.

The subsystem can be used to run any batch job.

Example commands:

PSWORK ACTION(*CRT) - creates the subsystem.

PSWORK ACTION(*DLT) - deletes the subsystem.

Appendix A

RRM Controlled Servers

TCP/IP Exit Programs

| Exit Point | Format | Server | Journal Entry | Exit Program |
|--|----------|-----------|---------------|--------------|
| FTP CLIENT Request Validation—outgoing | | | | |
| QIBM_QTMF_CLIENT | VLRQ0100 | FTPCLT | CN/DN/ON | NW0031E |
| Func Description | Func # | Func Name | | |
| Session Initialization | X'0000' | INIT | | |
| Create library/directory | X'0001' | MKDIR | | |
| Delete library/directory | X'0002' | RMDIR | | |
| Set current directory | X'0003' | CD | | |
| List file | X'0004' | LIST | | |
| Delete file | X'0005' | DELETE | | |
| Send file | X'0006' | SEND | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|--|----------|-----------|---------------|--------------|
| Receive file | X'0007' | RECEIVE | | |
| Rename file | X'0008' | RENAME | | |
| Execute CL command | X'0009' | COMMAND | | |
| FTP Server Request Validation—incoming | | | | |
| QIBM_QTMF_SERVER_REQ | VLRQ0100 | FTPSRV | CM/DM/OM | NW0031E |
| Func Description | Func # | Func Name | | |
| Session Initialization | X'0000' | INIT | | |
| Create library/directory | X'0001' | MKDIR | | |
| Delete library/directory | X'0002' | RMDIR | | |
| Set current directory | X'0003' | CD | | |
| List file | X'0004' | LIST | | |
| Delete file | X'0005' | DELETE | | |
| Send file | X'0006' | SEND | | |
| Receive file | X'0007' | RECEIVE | | |
| Rename file | X'0008' | RENAME | | |
| Execute CL command | X'0009' | COMMAND | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|---------------------------------|----------|-----------|---------------|--------------|
| FTP Server Logon | | | | |
| QIBM_QTMF_SVR_LOGON | TCPL0100 | FTPSRV | CM/DM/OM | NW0032E |
| Func Description | Func # | Func Name | | |
| Application Server Logon | X'0000' | LOGON | | |
| FTP Server Anonymous Logon | | | | |
| QIBM_QTMF_SVR_LOGON | TCPL0200 | FTPSRV | CM/DM/OM | NW0039E |
| Func Description | Func # | Func Name | R W X M | |
| Application Server Logon | X'0000' | LOGON | | |
| Telnet Device Initialization | | | | |
| QIBM_QTG_DEVINIT | INIT0100 | TELNET | CQ/DQ/OQ | NW0033E |
| Func Description | Func # | Func Name | R W X M | |
| Application Server Logon | X'0000' | LOGON | | |
| REXEC Server Request Validation | | | | |
| QIBM_QTMX_SERVER_REQ | VLRQ0100 | REXEC | CO/DO/OO | NW0032E |
| Func Description | Func # | Func Name | R W X M | |
| Session Initialization | X'0000' | SSNINIT | | |
| Execute CL command | X'0009' | COMMAND | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|-------------------------------------|----------|-----------|---------------|--------------|
| REXEC Server Logon | | | | |
| QIBM_QTMX_SVR_LOGON | TCPL0100 | REXEC | CP/DP/OP | NW0032E |
| Func Description | Func # | Func Name | R W X M | |
| Application server logon | X'0000' | LOGON | | |
| Trivial FTP (from network stations) | | | | |
| QIBM_QTOD_SERVER_REQ | VLRQ0100 | | | |
| Func Description | Func # | Func Name | R W X M | |
| Send file | X'0006' | SNDFILE | | |
| Receive file | X'0007' | RCVFILE | | |

Original Client Access Servers

| Exit Point | Format | Server | Journal Entry | Exit Program |
|---------------------------|----------|-----------|---------------|--------------|
| File Server | | | | |
| QIBM_QHQ_DTAQ | DTAQ0100 | DTAQ | CA/DA/OA | NW0021E |
| Func Description | Func # | Func Name | R W X M | |
| Clear msg from data queue | | CLEAR | | |
| | | | - X - - | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|------------------------------|----------|-----------|---------------|--------------|
| Create data queue | | CREATE | - X - - | |
| Delete data queue | | DELETE | - - - X | |
| Receive msg (nondestructive) | | PEEK | X - - - | |
| Query data queue attributes | | QRY ATT | X - - - | |
| Receive msg (destructive) | | RECEIVE | X - - - | |
| Send msg to data queue | | SEND | - X - - | |
| Remote SQL Request | | | | |
| QIBM_QRQ_SQL | RSQL0100 | RTMSQL | CR/DR/OR | NW0037E |
| Func Description | Func # | Func Name | R W X M | |
| Connect to remote database | | | | |
| Create SQL package | | | | |
| Delete current row of cursor | | | | |
| Execute SQL package | | | | |
| Run stored non-select stmt | | | | |
| Run SQL stmt w/parm marker | | | | |
| Prepare SQL package | | | | |
| Call iSeries program | | | | |
| Select DB records | | | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|----------------------------------|----------|-----------|---------------|--------------|
| Select SQL package | | | | |
| Select DB recs w/ parm marker | | | | |
| Select DB records | | | | |
| Update current row for cursor | | | | |
| File Transfer Function | | | | |
| QIBM_QTF_TRANSFER | TRAN0100 | FILETFR | CT/DT/OT | NW0038E |
| Func Description | Func # | Func Name | R W X M | |
| Extract file path | | EXTRACT | | |
| Join files | | | | |
| Replace file member (upload) | | | | |
| Retrieve file records (download) | | SELECT | | |
| Open file | | OPEN | | |
| Message Function Server | | | | |
| QIBM_QMF_MESSAGE | MESS0100 | MSGSRV | CT/DT/OT | NW0035E |
| Func Description | Func # | Func Name | R W X M | |
| Receive message | | RECEIVE | | |
| Send message | | SEND | | |
| Virtual Print Server | | | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|--------------------|----------|-----------|---------------|--------------|
| QIBM_QVP_PRINTWERS | PRNT0100 | VRTPRT | CU/DU/OU | NW0036E |
| Func Description | Func # | Func Name | R W X M | |
| Receive message | | CHECK | | |
| Send message | | EXTRACT | | |
| Open printer file | | OPEN | | |
| License Management | | | | |
| QIBM_QLZP_LICENSE | LICM0100 | LICENSE | CV/DV/OV | NW0023E |
| Func Description | Func # | Func Name | R W X M | |
| Release license | | LICRLS | | |
| Request license | | LICREQ | | |

Optimized Client Access Servers

| Exit Point | Format | Server | Journal Entry | Exit Program |
|-----------------------|----------|-----------|---------------|--------------|
| File Server | | | | |
| QIBM_QPWFS_FILE_SERVE | PWFS0100 | FILE | CI/DI/OI | NW0025E |
| Func Description | Func # | Func Name | R W X M | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|--------------------------------|----------|-----------|---------------|--------------|
| Allocate conversation | X'0007' | ALLOCON | | |
| Change file attributes | X'0000' | CHGATT | | |
| Create file/directory | X'0001' | CREATE | - X - - | |
| Delete file/directory | X'0002' | DELETE | - - - X | |
| List file attributes | X'0003' | LISTATT | X - - - | |
| Move file | X'0004' | MOVE | - - - X | |
| Open file | X'0005' | OPEN | | |
| Comand Description | Command | | R W X M | |
| | RO | | X - - - | |
| | WR | | X X - - | |
| | RW | | X X - - | |
| | RWD | | X X - - | |
| | WRD | | X X - - | |
| Rename file | X'0006' | RENAME | - - - X | |
| Database Server Initialization | | | | |
| QIBM_QZDA_INIT | ZDAI0100 | DBINIT | CD/DD/OD | NW0027E |
| Func Description | Func # | Func Name | R W X M | |
| Initiate DB server | X'0000' | ALLOCON | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|---------------------------------------|----------|-----------|---------------|--------------|
| Native Database Requests (data) | | | | |
| QIBM_QZDA_NDB1 | ZDAD0100 | DBNDB | CE/DE/OE | NW0028E |
| Func Description | Func # | Func Name | R W X M | |
| Add file member | X'1802' | ADDMBR | | |
| Clear file member | X'1803' | CLRMBR | | |
| Clear save file | X'1808' | CLRSAVF | | |
| Create database file | X'1801' | CRTDBF | | |
| Create save file | X'1807' | CRTSAVF | | |
| Create source PF | X'1800' | CRTSRCF | | |
| Delete database file | X'1809' | DLTF | | |
| Delete file member | X'1804' | DLTMBR | | |
| Delete file override | X'1806' | DLTOVR | | |
| Override database file | X'1805' | OVRDBF | | |
| Retrieve Object Information (package) | | | | |
| QIBM_QZDA_ROI1 | ZDAR0100 | DBROI | CF/DF/OF | NW0029E |
| Func Description | Func # | Func Name | R W X M | |
| Retrieve library info | X'1802' | LIBRARY | | |
| Retrieve relational DB info | X'1803' | RDB | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|------------------------------------|----------|-----------|---------------|--------------|
| Retrieve SQLPKG info | X'1808' | PKGINFO | | |
| Retrieve SQLPKG statement info | X'1801' | PKGSTMT | | |
| Retrieve file info | X'1807' | FILE | | |
| Retrieve member info | X'1800' | MEMBER | | |
| Retrieve record format info | X'1809' | RCDFMT | | |
| Retrieve field info | X'1804' | FIELD | | |
| Retrieve index info | X'1806' | INDEX | | |
| Retrieve column info | X'1805' | SPCLCOL | | |
| Retrieve Object Information (Keys) | | | | |
| QIBM_QZDA_ROI1 | ZDAR0200 | DBROI | CF/DF/OF | NW0029E |
| Func Description | Func # | Func Name | R W X M | |
| Retrieve foreign key info | X'1809' | FRGNKEY | | |
| Retrieve primary key | X'180A' | PRIMKEY | | |
| SQL Requests (<512 bytes) | | | | |
| QIBM_QZDA_SQL1 | ZDAQ0100 | DBSQL | CG/DG/OG | NW0030E |
| Func Description | Func # | Func Name | R W X M | |
| Prepare SQLPKG | X'1800' | PREPARE | | |
| Prepare and describe SQLPKG | X'1803' | PRPDESC | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|----------------------------------|----------|-----------|---------------|--------------|
| Open/describe SQLPKG | X'1804' | OPNDESC | | |
| Execute SQLPKG | X'1805' | EXECUTE | | |
| Execute immediate SQLPKG | X'1806' | EXECIMM | | |
| Connect remote database | X'1809' | CONNECT | | |
| Execute immediate SQLPKG | X'1806' | FETCH | | |
| Prep & execute or prep & open | X'180D' | PRPEXEC | | |
| Open SQLPKG & fetch row | X'180E' | OPNFECH | | |
| Create SQLPKG | X'180F' | CRTPKG | | |
| Clear SQLPK | X'1810' | CLRPKG | | |
| Delete SQLPK | X'1811' | DLTPKG | | |
| Execute or Open SQLPK | X'1812' | EXECOPN | | |
| SQL Requests (maximum 32k bytes) | | | | |
| QIBM_QZDA_SQL2 | ZDAQ0200 | DBSQL | CG/DG/OG | NW0030E |
| Func Description | Func # | Func Name | R W X M | |
| Prepare SQLPKG | X'1800' | PREPARE | | |
| Prepare and describe SQLPKG | X'1803' | PRPDESC | | |
| Open/describe SQLPKG | X'1804' | OPNDESC | | |
| Execute SQLPKG | X'1805' | EXECUTE | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|-------------------------------|---------|-----------|---------------|--------------|
| Execute immediate SQLPKG | X'1806' | EXECIMM | | |
| Connect remote database | X'1809' | CONNECT | | |
| Execute immediate SQLPKG | X'1806' | FETCH | | |
| Prep & execute or prep & open | X'180D' | PRPEXEC | | |
| Open SQLPKG & fetch row | X'180E' | OPNFECH | | |
| Create SQLPKG | X'180F' | CRTPKG | | |
| Clear SQLPK | X'1810' | CLRPKG | | |
| Delete SQLPK | X'1811' | DLTPKG | | |
| Execute or Open SQLPK | X'1812' | EXECOPN | | |
| Data Queue Server | | | | |
| QIBM_QZHQ_DATA_QUEUE | ZHQ0100 | DATAQ | CX/DX/OX | NW0021E |
| Func Description | Func # | Func Name | R W X M | |
| Query data queue attributes | X'0001' | QRY ATT | X - - - | |
| Receive msg (destructive) | X'0002' | RECEIVE | X - - - | |
| Open/describe SQLPKG | X'0003' | CREATE | - X - - | |
| Execute SQLPKG | X'0004' | DELETE | - - X - | |
| Execute immediate SQLPKG | X'0005' | SEND | - X - - | |
| Connect remote database | X'0006' | CLEAR | - X - - | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|---|----------|-----------|---------------|--------------|
| Execute immediate SQLPKG | X'0007' | CANCEL | X - - - | |
| Receive msg (nondestructive) | X'0012' | PEEK | X - - - | |
| Network Print Server Entry | | | | |
| QIBM_QNPS_ENTRY | ENTR0100 | NETPRT | CY/DY/OY | NW0026E |
| Func Description | Func # | Func Name | R W X M | |
| Initiate & verify serve access | X'0802' | ENTRY | X X - - | |
| Network Print Server Spooled File | | | | |
| QIBM_QNPS_SPLF | SPLF0100 | NETPRT | CY/DY/OY | NW0026E |
| Func Description | Func # | Func Name | R W X M | |
| Perform Spool function | X'010D' | SPLF | X - - - | |
| Remote Command/Distributed Program Call | | | | |
| QIBM_QZRC_RMT | CZRC0100 | RMTCMD | CJ/DJ/OJ | NW0024E |
| Func Description | Func # | Func Name | R W X M | |
| Distributed Program Call | X'1003' | PGMCALL | | |
| Remote command | X'1002' | RMTCMD | | |
| Signon Server | | | | |
| QIBM_QZSO_SIGNONSRV | ZSOY100 | SIGNON | CB/DB/OB | NW0022E |
| Func Description | Func # | Func Name | R W X M | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|------------------------------------|---------|-----------|---------------|--------------|
| Retrieve signon info | X'7004' | INFO | | |
| Change password | X'7004' | CHGPWD | | |
| Central Server Conversion Map | | | | |
| QIBM_QZSC_NLS | ZSCN100 | CENTRAL | CC/DC/OS | NW0023E |
| Func Description | Func # | Func Name | R W X M | |
| Retrieve conversion map | X'1201' | RTVMAP | | |
| Central Server Client Management : | | | | |
| QIBM_QZSC_SM | ZSCS100 | CENTRAL | CC/DC/OC | NW0023E |
| Func Description | Func # | Func Name | R W X M | |
| Set client active (on) | X'1101' | CLACT | | |
| Set client active (off) | X'1102' | CLINACT | | |
| Central Server License Management | | | | |
| QIBM_QZSC_LM | ZSCS100 | CENTRAL | CC/DC/OC | NW0023E |
| Func Description | Func # | Func Name | R W X M | |
| Request license | X'1001' | LICREQ | | |
| Release license | X'1002' | LICRLS | | |
| Retrieve license information | X'1003' | LICINFO | | |

Other Servers

| Exit Point | Format | Server | Journal Entry | Exit Program |
|-------------------------|--------|-----------|---------------|--------------|
| DDM | | | | |
| Network attr: DDMACC | NA | DDM | CK/DK/OK | NW0034E |
| Func Description | Func # | Func Name | R W X M | |
| Add member to file | | ADDMBR | | |
| Change file | | CHANGE | | |
| Change member in file | | CHGMBR | | |
| Clear member in file | | CLEAR | | |
| Execute a command | | COMMAND | | |
| Copy file | | COPY | | |
| Create file | | CREATE | | |
| Delete file | | DELETE | | |
| Extract file attributes | | EXTRACT | | |
| Initialize server | | INIT | | |
| Load | | LOAD | | |
| Lock | | LOCK | | |
| Move | | MOVE | | |
| Open | | OPEN | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|------------------------|--------|-----------|---------------|--------------|
| Rename file | | RENAME | | |
| Reorganize file member | | RGZMBR | | |
| Remove file member | | RMVMBR | | |
| Rename file member | | RNMMBR | | |
| Retrieve data area | | RTDTARA | | |
| Unload entry | | | | |
| Change data area | | CHDTARA | | |
| Clear data queue | | | | |
| Receive data queue | | RCVDTAQ | | |
| Send data queue | | | | |
| DRDA | | | | |
| Network attr: DDMACC | NA | DRDA | CL/DL/OL | NW0034E |
| Func Description | Func # | Func Name | R W X M | |
| SQLCNN DRDA connection | | CONNECT | | |

| Exit Point | Format | Server | Journal Entry | Exit Program |
|---------------------------|----------|-----------|---------------|--------------|
| ShowCase | | | | |
| SC_QUERY_ROW_SEC | SCRS0100 | SHWCASE | CW/DW/OW | NW0040E |
| Func Description | Func # | Func Name | R W X M | |
| Alter Table | | ALTER | W | |
| Call Procedure | | CALL | R | |
| Comment Table | | COMMENT | W | |
| Create Table | | CREATE | W | |
| Delete From Table | | DELETE | W | |
| Drop Table | | DROP | W | |
| Grant Authority | | GRANT | W | |
| Insert into Table | | INSERT | W | |
| Label Table | | LABEL | W | |
| Rename Table | | RENAME | W | |
| Revoke Authority to Table | | REVOKE | W | |
| Select from Table | | SELECT | R | |
| Set Value | | SET | R | |
| Update Table | | UPDATE | W | |

Appendix B

Access Codes

| CODE | ACCESS TYPE | CODE | ACCESS TYPE | CODE | ACCESS TYPE |
|------|----------------|------|-------------|------|------------------------|
| 1 | Add | 22 | File | 43 | Retrieve |
| 2 | Active program | 23 | Grant | 44 | Run |
| 3 | Analyze | 24 | Hold | 45 | Revoke |
| 4 | Apply | 25 | Initialize | 46 | Save |
| 5 | Call or TFRCTL | 26 | Load | 47 | Save with Storage Free |
| 6 | Configure | 27 | List | 48 | Save and Delete |
| 7 | Change | 28 | Move | 49 | Submit |
| 8 | Check | 29 | Merge | 50 | Set |

| CODE | ACCESS TYPE | CODE | ACCESS TYPE | CODE | ACCESS TYPE |
|------|-------------|------|-------------|------|---------------------------|
| 9 | Close | 30 | Open | 51 | Send |
| 10 | Clear | 31 | Prnt | 52 | Start |
| 11 | Compare | 32 | Query | 53 | Transfer |
| 12 | Cancel | 33 | Reclaim | 54 | Trace |
| 13 | Copy | 34 | Receive | 55 | Verify |
| 14 | Create | 35 | Read | 56 | Vary |
| 15 | Convert | 36 | Reorganize | 57 | Work |
| 16 | Debug | 37 | Release | 58 | Read/Change DLO Attribute |
| 17 | Delete | 38 | Remove | 59 | Read/Change DLO Security |
| 18 | Dump | 39 | Rename | 60 | Read/Change DLO Content |

| CODE | ACCESS TYPE | CODE | ACCESS TYPE | CODE | ACCESS TYPE |
|------|-------------|------|-------------|------|------------------------------|
| 19 | Display | 40 | Replace | 61 | Read/Change DLO all parts |
| 20 | Edit | 41 | Resume | 62 | Add Constraint |
| 21 | End | 42 | Restore | 63 | Change Constraint |
| | | | | 64 | Remove Constraint |

Appendix C

Recommended Security Reports

This appendix describes recommended reports that provide useful information about the security of your iSeries system, and explains how to clean up your journal receivers.

Report Summary

The following table lists reports that are used to audit your system for critical, security-related changes. Generate and review these reports at the indicated intervals.

You can schedule these reports, or any other SAR reports, to run automatically at specified intervals by using the option described in “Option 12 Work with Scheduled PSA/SAR Events” on page 219. You can also schedule individual reports to run automatically by pressing F7 on the PSAudit Submittal Window of the desired reports.

To schedule a report listed in the following table, execute the following option string, and then execute the option string shown for the desired report:

PSMENU > PSAudit > Option 1 (System Auditing & Reporting)

| Report | Frequency | Option String |
|---|-----------|--|
| User Profile Changes | Daily | Option 5 (Security Reports Menu) > Option 2 (System Access Reports Menu) > Option 2 (Crt, Chg, Restore of User Profiles) > F7 (Schedule) |
| Checkpoint (Compare to Last Month's) | Monthly | Option 9 (Summary Reports Menu) > Option 5 (Security Checkup) > F7 (Schedule) |
| Password and User ID Failures | Daily | Option 5 (Security Reports Menu) > Option 2 (System Access Reports Menu) > Option 1 (Invalid Sign-on Attempts) > F7 (Schedule) |
| Powerful Profiles | Weekly | Option 8 (User Profile Reports Menu) > Option 20 (User Profile Reports Menu 2) > Option 9 (Profiles Special Authorities) > F7 (Schedule) |
| User Profiles with Command Line Access (to sign on) | Monthly | Option 8 (User Profile Reports Menu) > Option 20 (User Profile Reports Menu 2) > Option 6 (Profiles w/LMTCPB= *NO or *PARTIAL) > F7 (Schedule) |
| Commands Allowed for Limited Users | Monthly | Option 2 (Object Reports Menu) > Option 20 (More Object Authority Reports) > Option 7 (Commands Allowed For Limited Users) > F7 (Schedule) |
| User Profiles with Default Passwords | Monthly | Option 8 (User Profile Reports Menu) > Option 20 (User Profile Reports Menu 2) > Option 5 (User Profile = Password) > F7 (Schedule) |

| Report | Frequency | Option String |
|---|------------------|--|
| Changes to System Values | Weekly | Option 5 (Security Reports Menu) > Option 1 (General Security Reports Menu) > Option 6 (Changes To System Values) > F7 (Schedule) |
| Summary of System Changes | Weekly | Option 9 (Summary Reports Menu) > Option 1 (Summary of System Changes) > F7 (Schedule) |
| User Profiles Not Signed on in <i>XX</i> Days where <i>XX</i> is the number of days | Daily | Option 8 (User Profile Reports Menu) > Option 11 (Profiles Not Signed On in X Days) > F7 (Schedule) |
| Authority to Programs that Adopt QSECOFR | Monthly | Option 2 (Object Reports Menu) > Option 20 (More Object Authority Reports) > Option 1 (Programs that Adopt QSECOFR Auth) > F7 (Schedule) |
| Audit Report of Sensitive Commands Issued by AAA* Users | Monthly | Option 5 (Security Reports Menu) > Option 3 (User and Object Reports Menu) > Option 1 (Command Usage by User) > F7 (Schedule) |
| User Profiles That Are Not in a Group Look at the first category of the report showing users that are not in a group | Monthly | Option 8 (User Profile Reports Menu) > Option 1 (Group Profiles) > F7 (Schedule) |

Journal Receiver Cleanup

To maintain your journal receivers in good working order, it is recommended that you clean up your journal receivers (delete their contents) regularly, preferably after you generate security reports. Before you clean your journal receivers, make sure that you backup and obtain all the information and reports that you need.

To clean journal receivers, perform the following steps:

1. On the command line, type **PSMENU** and press ENTER.
2. Type **1** (PSAudit) and press ENTER.
3. Type **1** (System Auditing and Reporting) and press ENTER.
4. Type **7** (System Setup and Defaults Menu) and press ENTER.
5. Type **5** (Generate/Save/Clean-up Jrnl Recvrs) and press ENTER.
6. When prompted, provide the requested information.
7. *If you want to run the journal cleanup job*, press ENTER
8. *If you want to schedule the journal cleanup job*, press F7.