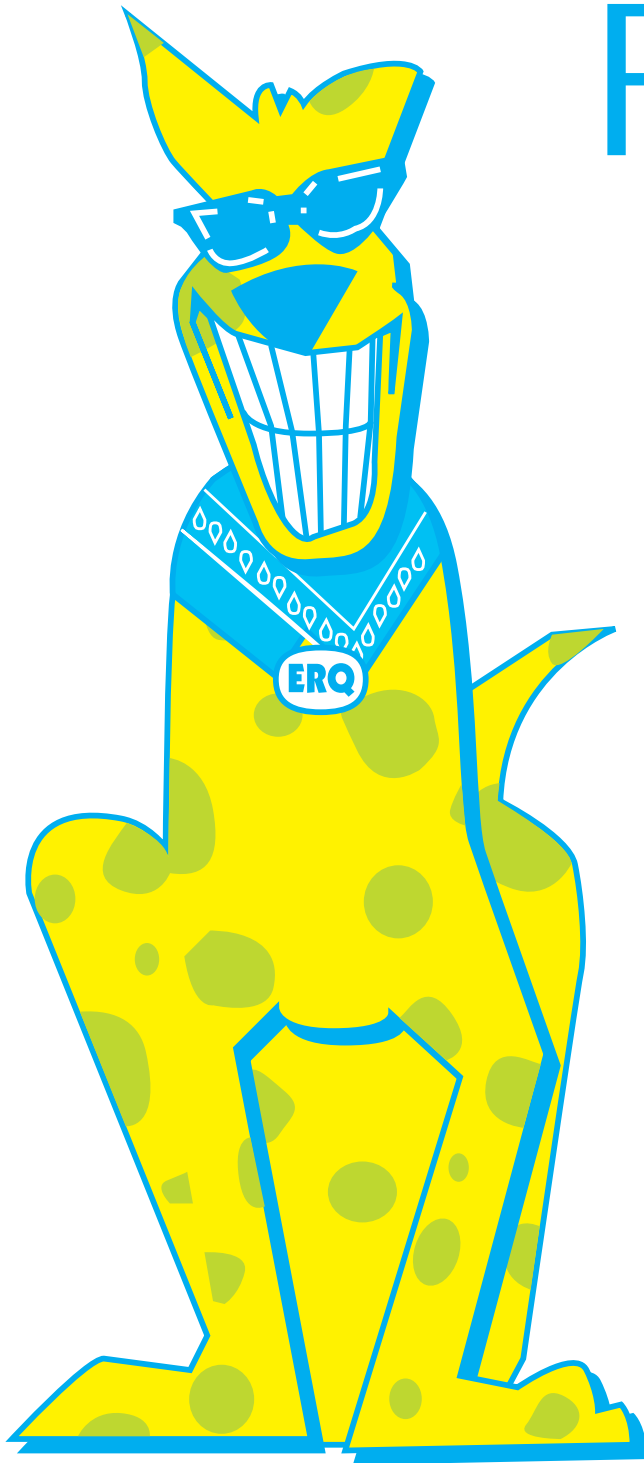


Go Fetch.



ERQ

EASY RACF QUERY



ADVANCED SOFTWARE PRODUCTS GROUP, INC.

www.aspg.com

Introduction

As companies expand their reliance on interconnected information systems, they face an increasing challenge to protect the integrity of valuable, confidential data. Ensuring that information is protected from unauthorized disclosure and safeguarded to prevent unauthorized modification or destruction is an essential prerequisite for all companies. Access Control Facility [RACF or Security Server] is just one of the first steps in constituting good security controls.

Report generation, auditing, and administration within security administration are paramount to maintaining efficient, quality control. According to a recent survey by the SANS Institute, "a high percentage of security personnel lack the knowledge necessary to understand the fundamental technology, and even the security principles necessary to do their job in this really tight labor market today. Getting experience and senior security specialists could be a daunting task."

Ideally, the answer to this ongoing issue is the ability to perform security administration easily, efficiently, and most importantly simply, without the requirement of systems personnel and extensive training for completion of day-to-day tasks.



ERQ [Easy RACF Query] is a streamlined, highly efficient RACF tool that provides both online and programming services for custom security administration, reporting and RACF application writing

ERQ provides an online function to allow for automated security administration - with the push of a button, reports may be produced, RACF commands may be generated, and 'clean-up' tasks may be streamlined - with little or no training necessary. Extensive help messages guide the user through the product.

In addition to online Administrative services, ERQ offers programming services that provide a custom-reporting API-type interface that allows users to create their own custom RACF applications quickly and easily.

The security requirements and goals of mainframe security administration and management are ever changing. ERQ allows you to keep up with these changes by being the most flexible RACF management tool on the market.

ERQ Highlights

- Provides comprehensive, yet simple, on-line reporting & administration
- User-friendly ISPF interface
- Administration functions, ad-hoc command builder and online reporting
- Easily CLONE, DELETE, LIST and/or REPLICATE profiles with a single key stroke
- Screen level help panels
- Formatted, scrollable LIST output
- REPLICATE multiple profiles in a single step
- SAVE command allows RACF information to be easily exported to a file for input to other processes
- Fully customizable interface providing flexibility and efficiency
- Masking and extensive lists of selection criteria allow you to generate as much or as little data as is required for your reporting needs
- Up to 50% less expensive than most other RACF tools
- Easy to use straight-forward commands
- "High-Level Qualifier" reporting
- No learning curve
- Provides an API-like interface to RACF for creating customized applications & solutions
- Makes RACF information easily accessible to CLIST and REXX procedures
- RACF information is stored in a VSAM database for fast and easy access
- 'Plug' RACF tasks into in-house written custom routines
- Allows the user to customize their own screens to the functions they use most often
- Library of sample executable applications are provided. Samples can be customized or can be used as is.
- Support for Universal Groups, PROTECTED and RESTRICTED user attributes
- Access to live & archived RACF databases
- Stores RACF information into ISPF variables & tables
- Easy real-time access to RACF profiles without APF module functions
- Format & execute RACF commands without knowing syntax
- Format one or many commands & review commands as they process
- Can be used independently or to enhance other third party or 'homegrown' programs

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Online Services

Designed and developed for RACF Administrators by RACF Administrators with over 15 years of continuous hands-on experience - ERQ includes all of the online functions necessary to automate the entire security administration process, including many options not found in other third party tools.

ERQ Online functions are organized by:

1. Reports
2. Administrative Functions
3. RACF Command panels.

All ERQ Online Services screens are completely customizable, having been built using ERQ Programming Services, it is a snap to add new functions and/or modify existing ones. ERQ allows you to customize the screens with the functions that you use most often. ERQ provides all of the tools you need to manage and monitor security in one easy-to-use package.

```
Executable Sample Applications      Row 1 to 25 of 33
Command ==>                       Scroll ==> CSR

Execute application by entering S

Application                          Clist/Reapp
-----
- Change User Default Groups.        RDPLTGRP
- Cleanup all System-Special Ids from Access Lists.  RCLANSNP
- Clone User Profile.                RCLONEUP
- Convert a user profile to a group profile.          RCNVUTOG
- Create new CICS Region from another Region.        RREGION
- Delete all Dataset Profiles beginning with a certain HLQ.  RDELSN
- Delete all Resource Profiles defined to a Class.      RDELRES
- Delete Group Profile.              RDELGRP
- Delete User Profile.              RDELUSER
- Display profiles having a specific member defined.      RGETMEM
- Display Dataset Profile.          RGETDSN
- Display Group Profile.            RGETGRP
- Display Resource Profile.         RGETRES
- Display User Profile.            RGETUSER
- ERQ Format Commands for RACF Menu.  REFCMENU
- ERQ List Parsing for RACF Menu.    RELPMENU
- List All Users.                  RALLUSER
- Locate TranCode.                RLOCTRAN
- Replicate all Resource Profiles defined to a class.      RREPRES
- Replicate Dataset Profile.        RREPDSN
- Replicate Group Profile.          RREPGRP
- Replicate User Profile.          RREPUSER
- Report all Dataset Profiles having a UACC not equal to NONE.  RSEARCHD
- Report all Group-Special User Connections.             RSEARCHC
- Report all Groups having no Connected Users and no Subgroups.  RSEARCHG
```

ERQ provides a host of sample applications that can be used as is, customized or as models for new applications.

ERQ provides an intuitive user interface far exceeding that of the IBM-supplied RACF panels. Users no longer need to memorize, look up or store complex RACF commands. ERQ builds all the necessary commands to carry out the desired function, presents them to the user for optional editing and then allows for simple execution via the RUN command.

ERQ goes beyond reporting! Relevant line command actions are available at the completion of the reports. For example, line commands allow the user to CLONE, DELETE, LIST and/or REPLICATE with a single keystroke. Other line commands, such as CHANGE OWNER, CHANGE NOTIFY, REMOVE NOTIFY and REMOVE CONNECTION are all available as single character line commands. LIST output is formatted and presented in a scrollable screen. ERQ makes it very easy to not only generate the reports you need, but also allows you to easily take action against profiles presented in the reports you generate. ERQ also provides the user with a "SAVE" command which allows the user to take a snapshot of

requested report data to give you complete flexibility with your report data

ERQ also processes Residue IDs. Residue ID's are obsolete RACF group and user profiles that are no longer valid, yet they remain defined throughout the RACF database. During the daily RACF database extract process, these residual ID's are identified and commands are generated to remove them. These commands can be verified by the user and executed or they can be automatically executed by adding a step to the end of the extract job that will run the commands in the commands file.

Administrative Functions

User Functions:

- Add ●Clone ●Change Default-group ●Connect-Copy from Another Group ●CloneConnect-Remove All
- CloneConnect-remove All and Copy from Another User
- CloneDelete ●CloneList ●CloneRename
- CloneReplicate

Group Functions:

- Add ●Clone ●Connect-Copy from another Group
- Connect-Remove All ●Connect-Remove All and Copy from Another Group ●Delete ●List ●Replicate

Data Set Functions:

- Add ●Clone ●Delete ●List ●Rename ●Replicate
- Replicate Profiles Beginning with Specified HLQ
- Delete Profiles Beginning with Specified HLQ

Resource Functions:

- Add ●Clone ●Class ●Delete ●Delete Class
- List ●Replicate ●Replicate Class

Reporting Features

User Reports:

- Summary ●Last System Accessed ●IDs Not Owned by Default Group ●Notify ●Owner ●Number of Occurances Password Expire/Resume ●CICS OPID Summary
- CLAUTH ●Who has authority to create user IDs?
- Segment Reprts [TSO, CICS, DFP, OMVS, OPERPARM, Netview, Language & WORKATTR]

Group Reports:

- Summary ●Groups not owned by superior group
- Possible Obsolete Groups ●Owner ●Number of Occurances ●Segment Reports [DFP & OMVS]

Connect Reprts:

- Summary [by ID, by Group, by Owner & Dates]

Data Set Reports:

- Summary ●Data Sets not Owned by HQL ●DFP Segment ●All by summary, Level or Installation Data

Resource Reports:

- Summary ●DLFDATA Segment ●SESSION Segment
- SSIGNON Segment ●STDATA Segment ●Class Profile Summary ●All by Summary, Level Installation Data & Application Data

All ERQ reports can be run for any number of profiles. Profiles can also be masked, allowing for the easy listing of multiple profiles that are of the same naming convention.

Programming Services

ERQ is also an invaluable programming aide that retrieves RACF information for REXX and CLIST custom written RACF applications. ERQ increases productivity by providing you with easy access to both the live and archived RACF database for your in-house, custom applications. ERQ provides a library of sample executable applications that the user can easily modify to fit their environment's needs. Administrators now have the ability to write their own applications without seeking the assistance of the system programmers.

Historical Information Retrieval makes RACF information easily accessible to CLIST & REXX command procedures by retrieving and storing this RACF information into ISPF variables and tables. This unique programming service complements standard third party reporting and administration packaged solutions by acting as a repository for in-house developed RACF solutions and common custom routines.

```
ASPG Inc.          Data Set Summary Report          Row 1 to 21 of 220
Command ==>>>          SCROLL ==>>>          PAGE
                                06-JUN-03          12:26

Views:

  1 - Summary, 2 - Level, 3 - Installation Data

Line commands:
  C - clone, D - delete, L - list, R - replicate

Profile          Type UACC ID*  Owner          Volume
-----
--- ADB610.*.**          G  R          IBMUSER
--- ADSM.*.**            G  R          SYS1
--- ANF.*.**             G  R          SYS1
--- API.*.**             G  R          SYS1
--- APK.*.**             G  R          SYS1
--- APO.*.**             G  R          SYS1
--- ASM.*.**             G  R          SYS1
--- ASMA.*.**            G  R          SYS1
--- ASMT.*.**            G  R          SYS1
--- ASPG.*               G  N          ASPG001
--- ASPG.RMM*.**         G  N          ASPG001
--- ASPG001.**           G  N          ASPG001
--- ASPG001.ASPG001.**  G  N          ASPG001
--- ASPG002.**           G  N          ASPG002
--- ASPG003.**           G  N          ASPG003
--- ASPG005.**           G  N          ASPG005
--- ASPG03.**            G  N          ASPG03
```

This screen shows how ERQ allows immediate action to be taken against profiles listed in reports

Real-Time Information Retrieval (List parsing) issues RACF list commands (LISTDSD, LISTGROUP, LISTUSER, and RLIST) and parses the output into ISPF variables and tables. This allows individuals who write RACF utilities to easily access real-time RACF profile information without the need for APF module functions or use of CLIST and REXX exec SYSOUT-TRAP logic. As a complement to 'packaged' RACF solutions, ERQ acts as a 'front-end' for user written command procedures using ISPF to access the variables. For example, ERQ could be utilized to retrieve only the installation data field from a particular user profile, easily & efficiently.

```
Option ==>>>          Advanced Software Products Group, Inc.

                                ERQ List Parsing for RACF Sample Applications

  1  Display RACF List Output on Scrollable Screen
  2  Get Real Last Access Date for a User Id
  3  Identify What Profile Protects a Data Set
  4  Get Your Access to a Data Set or Resource Profile

X  Exit
```

This screen shows part of the sample applications that use real-time data directly from the RACF database. Many ERQ functions utilize list parsing capabilities.

Format Commands allows individuals who write RACF utilities to easily format, edit, and execute customized RACF commands without the use of ISPF skeleton members or the need for hard coding RACF commands in CLIST and REXX procedures. By adding a single statement to an in-house procedure, the developer has the ability to format one (or many) RACF commands and edit, modify, and execute them real-time while reviewing the commands as they process.

```
ASPG Inc.          RACF Command Panels          ERQ 2.1
Option ==>>>

                                These functions are written using ERQ Format Commands services.

User          Dataset
-----
AU  Add User          AD  Add Data Set
ALU Alter User        ALD Alter Data Set
DU  Delete User       DD  Delete Data Set

Group         Resource
-----
AG  Add Group        RDEF Add Resource Profile
ALG Alter Group     RALT Alter Resource Profile
DG  Delete Group     RDEL Delete Resource Profile
```

Commands are easily generated and executed using the RACF Commands panel. All commands shown were built with ERQ's Format Command service.

"I can teach someone to use the functions that I wrote with ERQ in less than ten minutes. If I am out, they can do just about anything using the ERQ panels that I have created"

- Large US Manufacturing Corporation

"Initially, I was skeptical of ERQ because it was so simple to use. But because the screens are so streamlined, easy to use and have straight-forward commands, ERQ was a perfect fit for our RACF administration needs...the simplicity of ERQ and the 'high-level qualifier' reporting are two of the key reasons we purchased the tool."

- Large Direct Marketing Corporation

"RACF contains a great deal of information associated with each userid. With ERQ, I can just produce a basic list of a userid and only the data I need, eliminating from the view any fields that have no direct impact on the task at hand."

- Major US Health Insurance Provider

For more information or a FREE 30 day evaluation, please contact your Team ASPG representative.

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