



RA2FM©

(for IBM z/OS users)



Welcome to Mobile Workers!

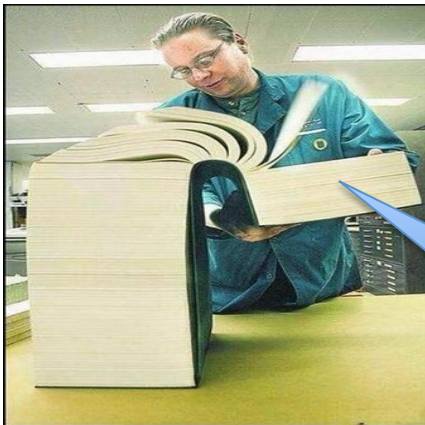
The very first and only PC(OSX,Windows) & tablet & iPHONE tool
Which gives you **REAL** added **VALUES** thanks
to integration of all major **COMPONENTS**
like HSM, RMM, CA1, CATALOGS, PARMLIB etc.
Remember: All dataset **ENTRIES** have a *related RACF profile!*

www.ra2fm.com
www.racfra2.com

Origin of the RA2FM software: Switzerland & USA
The international copyright law applies automatically – to concept and design.

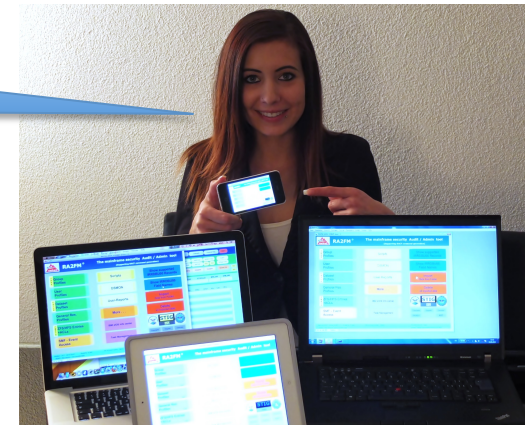
RA2FM

- **Purpose:**
 - View RACF from different angles as it is ‘linked/used’ by many software components
 - Reduce it ALL to a common denominator = RACF PROFILES
 - Taking advantage of new technologies e.g. tablets; iPHONES
- **ALL-in-ONE - the most sophisticated “ADD-ON” tool yet for:**
 - Auditors
 - Administrators
 - Anybody who has to deal with RACF security

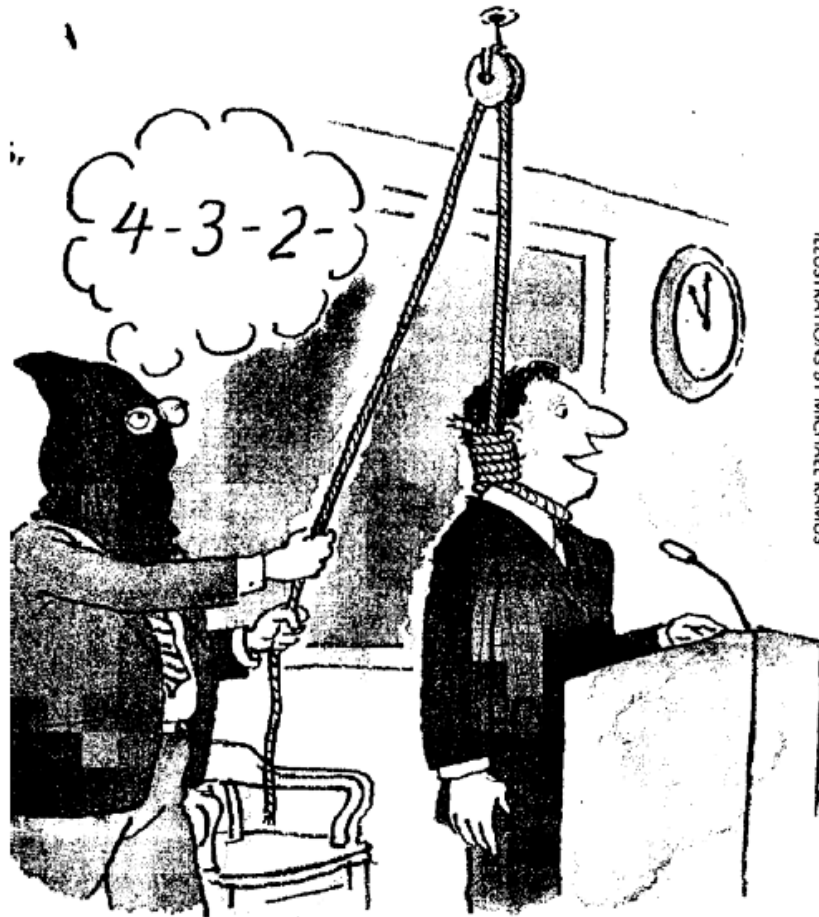


Yesterday
or
forever?

Tomorrow
!



RA2FM

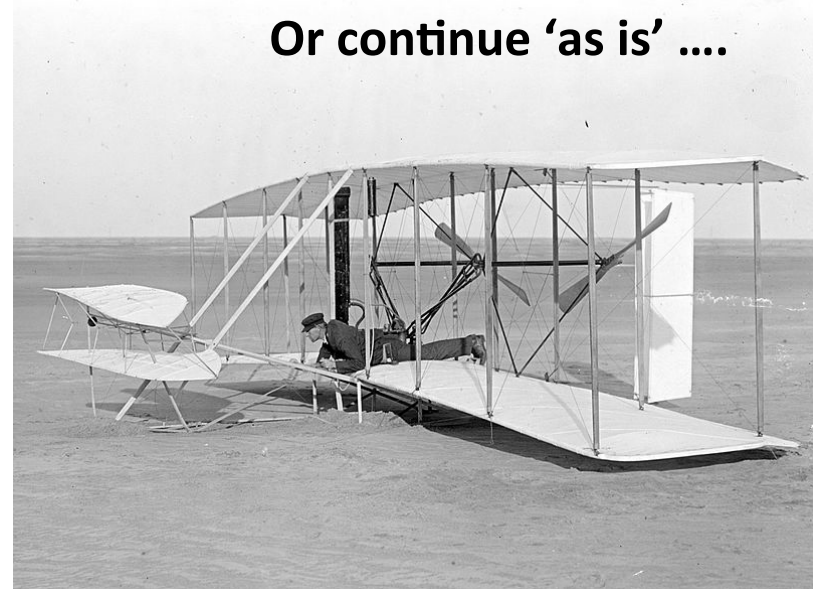


*It's a capital crime to exceed
your allotted time*

**Now is the time to move
on
to take advantage of the
new technologies**

**-
GO MOBILE**

Or continue 'as is'





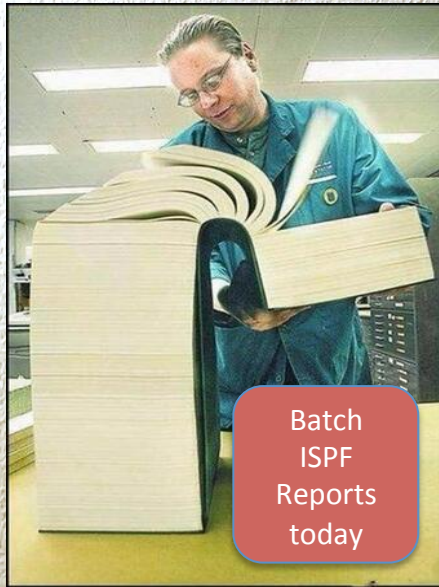
RA2FM

A brand NEW software tool for
corporate auditors, security administrators, IBM
Systems Engineers
NOW supporting iOS/OSX/Windows TABLETS too.

YES - It supports multiple (z/OS) RACF databases plus
HFS/ZFS, HSM, RMM, CA1, CATALOGS,
STIG issues etc. .

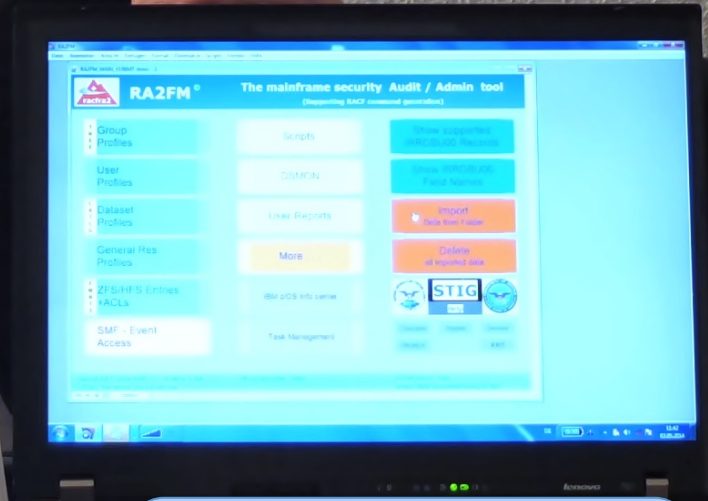
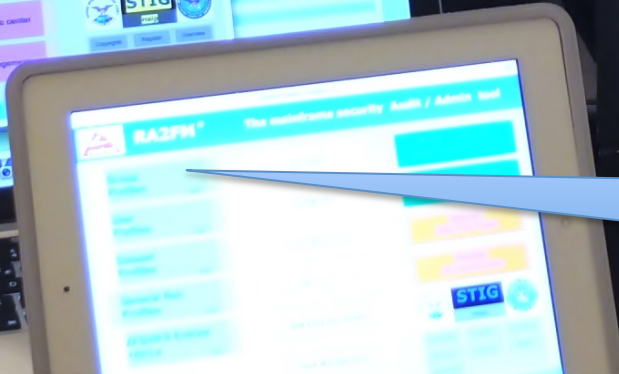
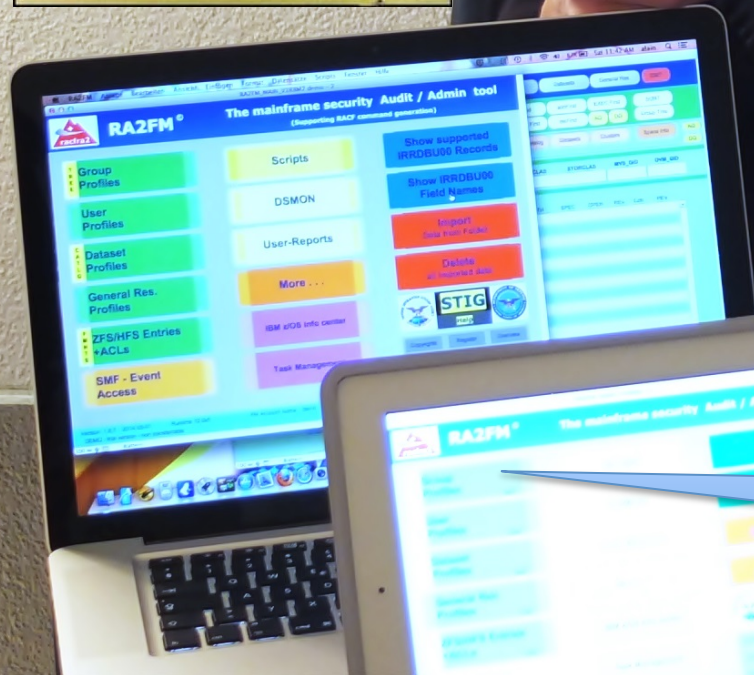
IBM trademarks – please refer to: <http://www.ibm.com/legal/us/en/copytrade.shtml>

RA2FM



Batch
ISPF
Reports
today

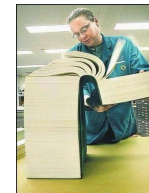
Yes – it really works perfectly on my iPad, OSX + Windows! My favorite tool!



RACF, HSM, RMM, CA1, Catalogs, Parmlib, STIG at my fingertips: anywhere

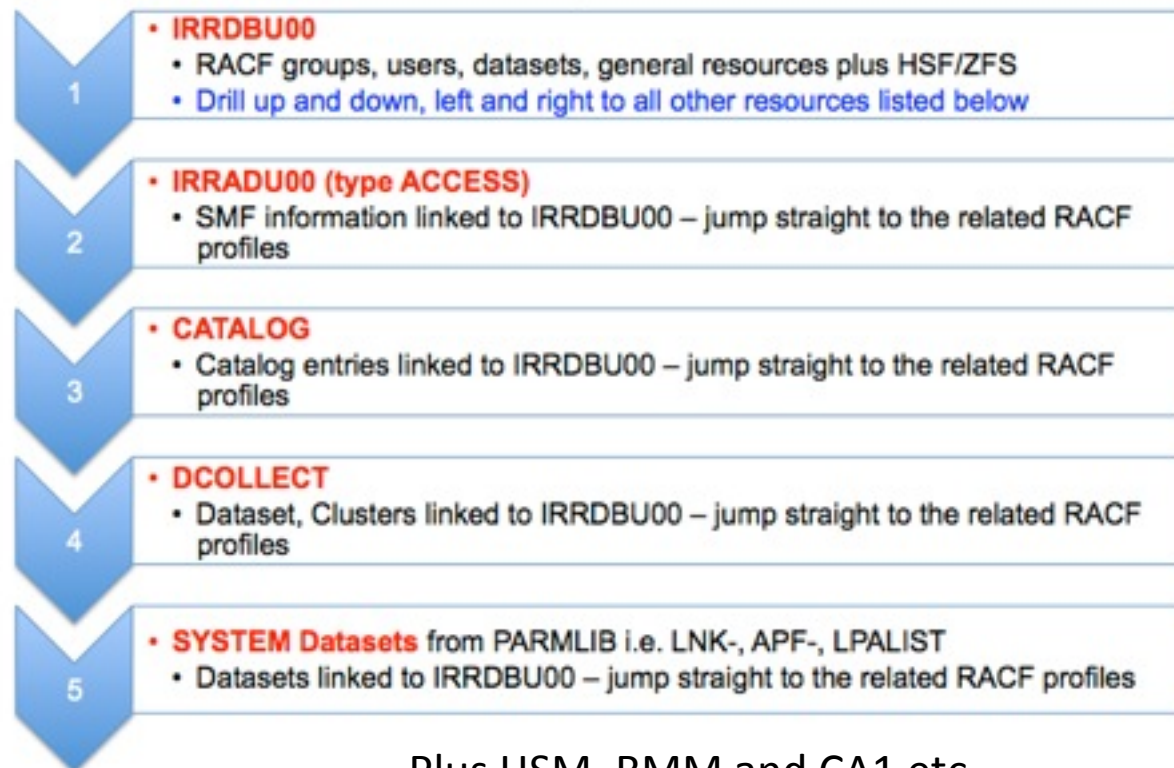
RA2FM

- Just another PC/Server tool? – **NO!**
 - Get bare bone tools for free from IBM *without (much) logic* in relation to the REAL world on the host:
<http://www-03.ibm.com/systems/z/os/zos/features/racf/downloads/>
 - [DBU2MSXL, a set of scripts which loads the output of the RACF Database Unload Utility \(IRRDBU00\) into Microsoft® Excel spreadsheet.](#)
 - [DBU2MSAC, a set of scripts which loads the output of the RACF Database Unload Utility \(IRRDBU00\) into Microsoft Access.](#)
- **Is offloading the data to a PC & TABLET a security concern?**
 - If YES – you are stuck with batch reports and e.g. 3270 tools
 - Your productivity is limited / slowed DOWN by your hardware options



There is more to it than just basic RACF profiles . . .

Get the picture . . .



. . . Plus HSM, RMM and CA1 etc.

Your IRRDBU00 knows NOTHING from which SYSTEM the data is extracted.
A design flaw! BUT - RA2FM knows it!



Paris



London

RA2FM© SIX steps to SUCCESS



Frankfurt



Zurich



NewYork



1

- Offload RACF© DB(s) and optionally relevant infos e.g. DCOLLECT, RMM, CA1 etc. (there are no passwords involved etc.)

2

- RA2FM host component prepares the offloaded files & extracts other system info's e.g. PARMLIB entries (APF-, LINK-, LPA-list, Catalogs, RMM, CA1, HSM)

3

- Merge offloaded files if required / update & download (FTP) all files in ASCII format

4

- FTP files to another the local datacenter & merge files if required or have for each data center a RA2FM PC/OSX copy installed

5

- Login to your RA2FM & Import all data on your PC or MAC. Optionally install it on your iPad/iPhone via iTUNES©. **It's RUNTIME software – no additional SW licenses.**

6

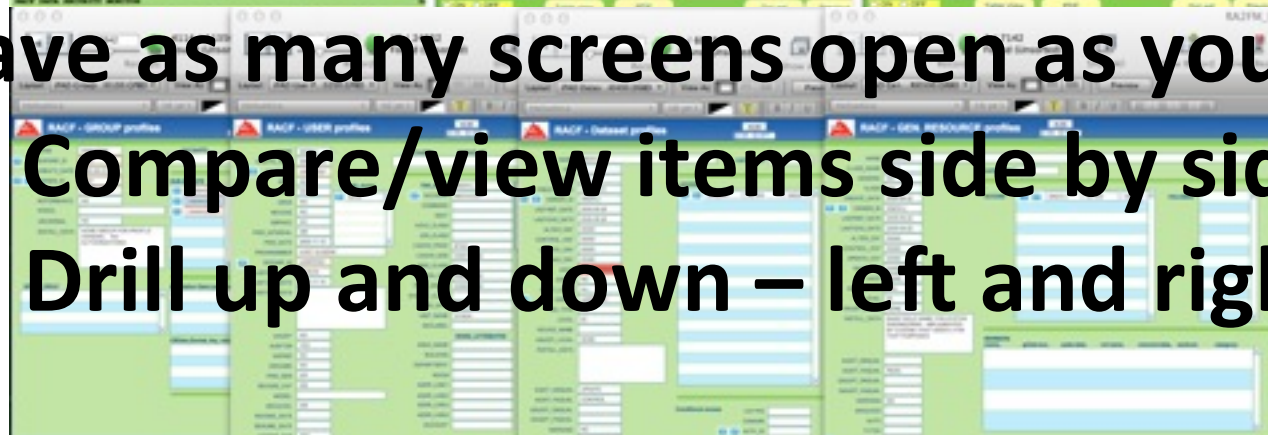
- That's all to it. No programming, DB2, SPUFI, SQL, QMF, EXCEL etc. to learn.
- Fast and VERY easy to use!



RA2FM beats 3270 and DB2 or EXCEL apps by light-years in terms of productivity?



- Have as many screens open as you like!
- Compare/view items side by side!
- Drill up and down – left and right!



Key features

- Works on iPad (iOS), OSX and Windows (no need for purchasing any Filemaker license(s)!)
 - Supports multiple RACF databases
 - Search on anything related to any RACF profile type
 - Outperforms any other solution i.e. DB2 solution
 - Most flexible and secure from unauthorized access
 - Productivity increase in excess of 1000% versus standard solutions
 - Minimal learning curve
 - The quickest way to get to know your RACF environment i.e. ideal as well for any novice. Best training tool?
- Very easy to use
- Ideal tool as well for a novice in RACF© to learn about *your security setup/implementation*
- Each user has his own RA2FM on a PC/iPad - hence no interference with anybody else e.g. file missing; data has changed; server not available etc.
- Reduces paper reports - saving costs
- The whole solution is **now portable** - **NOT TRANSPORTABLE** i.e. by using an **iPAD**



Welcome to Mobile Workers!

Key features

- **Drill up and down, left and right** where applicable links exist (click on "i" icon)
- All relevant information (all segments) **on one screen(=window)**
- Access lists pertaining to a group or user profile are on the same screen - no screen switching required
- Guess work concerning profile fields or segments vastly reduced to zero
- Analyze critical information on the fly
- Identify easily problems i.e. UACC not NONE, WARNING = YES etc.
- **View profiles side by side** - any combination possible - no way with i.e. 3270 screens/DB2 etc.
- Improve security
- RACF® Command generation
- VISIO® template generation
- You can view multiple RACF databases by limiting the search to a given system i.e. by the SMFID
- You can install as many RA2FM's on any supported system e.g. for each RACF DB one - an ideal solution for corporate auditors
- Profiles can be **tagged** for i.e. further investigation / follow up. Simply issue a search on tagged profiles (on or off)
- Once profiles have been loaded - no more IBM Host resources are required
- No complex DB2® SQLs or DB2 knowhow etc. is anymore required by the end-user
- Any "FINDs" can be stored for future references - a feature of supplied database
- Overall **one of the very best solution for all auditors, RACF administrators and IBM Host Systems Engineers. We claim it is superior than any ACCESS© or EXCEL© or some DB2© etc. solutions, as it runs on multiple platforms.**



**Now the
technical
part . . .**





RA2FM[®]

The mainframe security Audit / Admin tool

TREE **Group Profiles** **USUM**
11354

Number of records

Scripts

Pre-defined processes

Show supported IRRDBU00 Records

IDM **User Profiles** **USUM**
24648

Security Data Classification 8 17 **XREF**

Show IRRDBU00 Field Names

CATLG **Dataset Profiles** **USUM**
14 12006

No. Warnings

DSMON

User-Reports

Import Data from Folder

General Res. Profiles **RSUM**
14250

More ..

DCOLLECT HSM,RMM etc.

Delete all imported data

RACF Profiles Table views

SMF - Event Access 15

Create a backup / clone e.g. one per week etc.

STIG 
Help

FMENTS **ZFS/HFS Entries +ACLs**
5506

IBM z/OS Info center

Task Management

Copy ... Register Overview
FM-HELP Licence EXIT
TrimRA2FM ArchiveIT

RACF group profiles

(ALL information on ONE screen!)

The screenshot shows the RACF GROUP profiles interface. The top blue bar contains the 'racfra2' logo, the title 'GROUP profiles', and statistics for 'Rec.No' (1) and 'Found' (12). To the right are buttons for 'Users', 'Datasets', 'General Res.', and 'EXIT'. The main green area contains a grid of buttons for actions like 'Summary', 'MAIL', 'ShowALL', 'GoFirst', 'Next', 'Find', 'addFind', 'EXEC Find', 'SORT', 'Table View', 'PDF', 'EXPORT', 'GoLast', 'Previous', 'Quick Find', 'delFind', 'AG', 'DG', and 'Group Tree'. On the left, there are controls for 'ALS2' (ON/OFF) and a 'TAG' field with the value '4'. A legend at the bottom left indicates that greyed-out buttons are suppressed items.

SMF-ID (SID)

Group level

Switch to other profiles

Rec.No 1
Found 12

Users Datasets General Res. EXIT

ALS2 4

Summary MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

Table View PDF EXPORT GoLast Previous Quick Find delFind AG DG Group Tree

Navigation

TAG (each record)
e.g. remember on what
you were working?!

RACF command generation
(have to be uploaded to
the host for execution!)

ON OFF

= Suppressed items

Related Group

GROUP profiles

Rec.No **380**
Found **380**

Users Datasets General Res. EXIT

ON OFF
MTIZ

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT AG
EXPORT GoLast Previous Quick Find delFind DG
Subgroups Members Instdata OFF OMVS OVM TME
CSDATA

NAME VC1P01AD G-LVL 6
SDC@ 0
Total Connects 29
Total Permits 8
Related: ICF Catalog Datasets Clusters AG DG
Total entries:

NAME matching G= U= C= 28
OWNER_IDs in profiles: Q= R=

SUPGRP_ID VC1
CREATE_DATE 2002-09-02

OWNER_ID VC1 G 5
OWNER_ID matching G= 4 U= C=
OWNER_IDs in profiles: Q= R=

UACC NONE
NOTERMUACC NO
MODEL
UNIVERSAL NO
INSTALL_DATA * removed *

DATAAPPL DATACLAS MGMTCLAS STORCLAS

SUS-GROUPS SUBGRP_ID

CONNECTED User-DS MEMBER_ID AUTH SPEC OPER REV. Connects Permits

MEMBER_ID	AUTH	SPEC	OPER	REV.	Connects	Permits
BBBMAJ	USE	NO	NO	YES	7	0
* removed *						
CCCDWA	USE	NO	NO	NO	4	0
* removed *						
AAAARL	USE	NO	NO	NO	7	1
* removed *						
AAABAE	USE	NO	NO	NO	142	6
* removed *						
AAABGR	USE	NO	NO	NO	20	1
* removed *						
AAACKS	USE	NO	NO	NO	6	1
* removed *						
AAACLA	USE	NO	NO	NO	155	5
* removed *						

75 Browse

Jump from any item to another . .

Drill up and down – left and right!

Sophisticated “Pull downs” –
No more guess work as we
obtain all related data for you!

MVS_GID [dropdown]
OVM_GID [dropdown]

NAME = Dataset_GRP_ID:
STIG dataset rules:
STIG resource rules:
No_HFS/ZFS owner_GID

Installation Data

USR_NAME	USR_DATA	USR_FLAG

Show number of related items

@ALIL

H B U D
← ↑ ↓ →

CSData

TYPE [dropdown] KEY [dropdown] VALUE [dropdown]

TYPE	KEY	VALUE

Sophisticated "Pull downs" – No more guess work as we obtain all 'defined' data present!

Navigation – Very useful on tablets

RA2FM_MAIN_V3R2M4 - 2

RACFADM

AMX3IL.EVM.* @E99L Total Permits 7

DATASET ACCESS

NAME	VOL	CATYPE	CANAME	CACRITERIA	AUTH_ID	ACCESS
ITZZAM.**					RACFADM	ALTER
RA2.**					RACFADM	READ
RA21.**					RACFADM	READ
RA22.**					RACFADM	READ
AAALIH.#REXX.**					RACFADM	READ
AAAZHS.DEB\$WEAK.FILE					RACFADM	READ
SYS1.**.BROADCAST					RACFADM	READ

COND DATASET ACCESS

NAME	VOL	CATYPE	CANAME	CACRITERIA	AUTH_ID	ACCESS	NET_ID

75 Browse

Show DSN Profile details

Pull down to e.g. find datasets

Total Permits 1044

.CIS WRITER @BPRL

GENERAL RESOURCE ACCESS

	NAME	1044	CLASS_NAME	AUTH_ID	ACCESS
	\$STDB0.SUBMIT				READ
	.FAVX				ALTER
	.FREX		JESSPOOL	RZOP01	ALTER
	.FTRX		JESSPOOL	RZOP01	ALTER
	.GNDX		JESSPOOL	RZOP01	ALTER
	.G1		JESSPOOL	RZOP01	ALTER

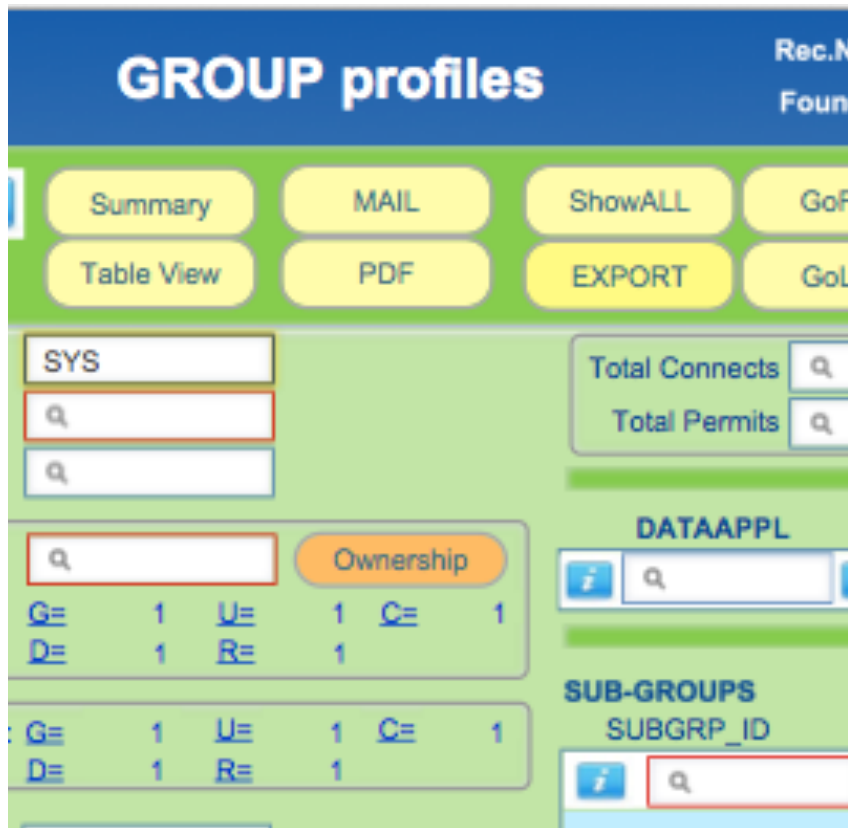
Show Gen.Resource profile

COND General Resource ACCESS

NAME	CLASS_NAME	CATYPE	CANAME	AUTH_ID	ACCESS	NET_ID
			CACRITERIA			

How to perform “FIND items”

Enter *FIND” mode



- You can find any item in a group
- A find works as well for related items e.g. you can find a dataset, UACC, PERMIT(accessID) etc. pertaining to a group e.g. access list(s)
- Multiple finds are supported
- Finds can be stored for future reference!

Table view 1 . . .

GROUP profiles

Rec.No: 1
Found: 11354

Buttons: Users, Datasets, General Res., EXIT, Alt. View, PDF, MAIL, ShowALL, GoFirst, Next, Find, addFind, EXEC Find, SORT, GoLast, Previous, Quick Find, delFind

VIEW as or by: [dropdown]

NAME	SUPGRP_ID	CREATE_DATE	OWNER_ID	UACC	INSTALL_DATA	No. SUB-GROUPS	No. CONNECTS
LVL	SIL	PROGRAMMER	NOTERMUACC	UNIVERSAL	MODEL		
FMTA				No. GID-Owner	No. User-Owner	No. Dsn-Owner	No. G.Res.-Owner
ADS03FIU	ADS03	2003-02-24	ADS03	NONE	* removed *	41	3
6	ALS2		NO	NO			7
ADS03FIU	ADS03	02-24	ADS03	NONE	* removed *		7
6	MTIZ		NO	NO		3	
ADS04	SUADS	1994	SUADS	NONE	* removed *	2	4
5	ALS2		NO	NO	2	2	
ADS04	SUADS		SUADS	NONE	* removed *	2	4
5	MTIZ		NO	NO			
ADS05	SUADS	2000-01-12	SUADS	NONE		32	9
5	ALS2		NO	NO			

75 [icons] Browse

Table view 2 . . . (cont.)

The screenshot shows a web application window titled "RA2FM_MAIN_V3R2M4 - 3". The main heading is "GROUP profiles". The interface includes a search bar with "Rec.No" set to 1 and "Found" set to 11354. There are several navigation buttons: "Users", "Datasets", "General Res.", "EXIT", "PDF", "MAIL", "ShowALL", "GoFirst", "Next", "Find", "addFind", "EXEC Find", "SORT", "GoLast", "Previous", "Quick Find", and "delFind". A "VIEW as or by:" dropdown menu is also present. Below the navigation is a table with the following columns: NAME, SUPGRP_ID, CREATE_DATE, OWNER_ID, SID, No. SUB-GROUPS, No. CONNECTS, No. PERMITS, No. DsnPROF, Catalog, and No. entries (NONVSAM / Cluster). The table contains 8 rows of data. At the bottom left, there is a "Browse" button and a page number "75".

NAME	SUPGRP_ID	CREATE_DATE	OWNER_ID	SID	No. SUB-GROUPS	No. CONNECTS	No. PERMITS	No. DsnPROF	Catalog	No. entries NONVSAM / Cluster
RWRVZB	FUNAC0B	1991-06-20	FUNAC0B	ALS2		1				
RWRVZB	FUNAC0B	1991-06-20	FUNAC0B	MTIZ		1				
RWSA	FUNAC0B	1989-02-14	FUNAC0B	ALS2	2					
RWSA	FUNAC0B	1989-02-14	FUNAC0B	MTIZ	2					
RWSABV	RWSA	1995-10-31	RWSA	ALS2		55	3			
RWSABV	RWSA	1995-10-31	RWSA	MTIZ		55	3			
RWSAGE	RWSA	1998-12-10	RWSA	ALS2		72	12			

Instant statistics per ID by catalog & DCOLLECT entries

RACF group profiles (cont.)

RA2FM_MAIN_V3R2M4 - 3

GROUP profiles
(Space allocated per group)

Rec.No: **1**
Found: **49**

Users Datasets General Res. EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by:

GoLast Previous Quick Find delFind

NAME	SUPGRP_ID	CREATE_DATE	OWNER_ID	SID	Allocated space in MB's			Number of DCOLLECT files as:			
					Datasets	HSM-Backup	HSM-Migrated	Datasets	HSM-Backup	HSM-Migrated	
OPER				ALS2		58			6		
PAGE						16			4		
PLI							3			4	
REXX				ALS2			2			17	
SCRIPT				ALS2			12			7	
SMPE				ALS2		4'144				80	
SYS1				ALS2		8'156		12'508		345	822
SYS2				ALS2			2	324		1	4
SYS3				ALS2				906			21
TCPIP				ALS2					63		
UCAT				ALS2				272			32
USER				ALS2			2	823		1	54

Total of all found group names:

75 Browse

Instant statistics per ID by DCOLLECT entries



RACF Group tree

EXIT

Expand All

Build Tree

PDF

Find-(next)

No. group entries: 11'354

	Level	CREATE_DATE	SID	OWNER_ID	INSTALL_DATA	FMTAG
SYS1	0	1986-01-06	ALS2	IBMUSER	* removed *	
SYS1	0	1986-01-06	MTIZ	IBMUSER	* removed *	
▶	1	1986-01-06	ALS2	IBMUSER	* removed *	
▶	1	1986-01-06	MTIZ	IBMUSER	* removed *	
▶	1	2000-07-04	ALS2	SYS1	* removed *	
▶	1	2000-07-04	MTIZ	SYS1	* removed *	
▶	1	2003-06-23	ALS2	SYS1	* removed *	
▶	1	2003-06-23	MTIZ	SYS1	* removed *	
▶	1	2005-06-23	ALS2	SYS1	* removed *	
▶	1	2005-06-23	MTIZ	SYS1	* removed *	
▶	1	1989-12-15	ALS2	SYS1	* removed *	
▶	1	1989-12-15	MTIZ	SYS1	* removed *	
▶	1	2003-06-23	ALS2	SYS1	* removed *	
▶	1	2003-06-23	MTIZ	SYS1	* removed *	
SYSCTLG	1	1986-01-06	ALS2	SYS1	* removed *	
SYSCTLG	1	1986-01-06	MTIZ	SYS1	* removed *	
▶	1	2003-06-23	ALS2	SYS1	* removed *	
▶	1	2003-06-23	MTIZ	SYS1	* removed *	
VSAMDSET	1	1986-01-06	ALS2	SYS1	* removed *	
VSAMDSET	1	1986-01-06	MTIZ	SYS1	* removed *	

Tag Entries by level

Expand tree

Show profile details

Find all group owners

The screenshot shows the RA2FM_MAIN_V1R9M0 - 4 application window. The title bar indicates the application name. The main window has a blue header with the 'racfra2' logo and the text 'GROUP profiles (Owner of profiles)'. Below the header, there are search and navigation controls including 'Rec.No' (1), 'Found' (1), 'Users', 'Datasets', 'General Res.', and 'EXIT' buttons. A green bar contains buttons for 'MAIL', 'PDF', 'ShowALL', 'GoFirst', 'Next', 'Find', 'addFind', 'EXEC Find', 'SORT', 'GoLast', 'Previous', 'Quick Find', and 'delFind'. The main content area is a table with columns: NAME, SID, Group-ID, User-ID, Connect group- & user-ID, and Dataset profiles. The table is divided into two sections: 'No. Owners' and 'General resource profiles'. The 'No. Owners' section shows a list of groups with their IDs and the number of owners. The 'General resource profiles' section shows details for the selected group, including resource names and permissions. Two callouts are present: one pointing to the 'No. Owners' column with the text 'Number of occurrences ID appears as owner', and another pointing to the 'Dataset profiles' section with the text 'Show details of all owners pertaining to the selected group'.

NAME	SID	Group-ID	User-ID	Connect group- & user-ID	Dataset profiles
SYS1	ALS2				
		G	9	SUPERUSER.FILESYS	UNIXPRIV
				SUPERUSER.FILESYS.CHOWN	UNIXPRIV
				SUPERUSER.FILESYS.CSTL	UNIXPRIV
				SUPERUSER.FILESYS.QUIESCE	UNIXPRIV
		R	9	SUPERUSER.FILESYS.VREGISTER	UNIXPRIV



GROUP profiles - command generation options

Mark/tag the Items below, indicating which type of RACF commands have to be generated.

Continue

Exit

ADDGROUP; ALTGROUP; CONNECT; PERMIT commands will generated

- GENERATE GROUP BASE ON OFF
- GENERATE GROUP CONNECT or REMOVE ON OFF
- GENERATE GROUP PERMIT DATASET ON OFF
- GENERATE GROUP PERMIT DATASET COND ACCESS ON OFF
- GENERATE GROUP PERMIT GENERAL RESOURCE ON OFF
- GENERATE GROUP PERMIT GENERAL RESOURCE COND ACCESS ON OFF
- GENERATE GROUP related DATASET profiles
(This will generate ADDSD/DELSA commands based on the HLO...)
- Resolve Group Name OWNERSHIP
(This will generate ALTER commands due to group name...)

- GENERATE GROUP OMVS ON OFF
- GENERATE GROUP OVM ON OFF
- GENERATE GROUP DFP ON OFF
- GENERATE GROUP TME ON OFF
- GENERATE GROUP CSDATA ON OFF

Select what commands shall be generated.

The generated text file must be uploaded to the mainframe for execution.

FTP - upload information

Perform global change to commands
 ON OFF

From: SYS1

To: SYS?

Group profiles - Summary

EXIT

Total	
Number of profiles	11'354
Number of profiles without any installation data	
Number of profiles with MODEL_DATA	334
Number of groups with sub-groups	1'064
Number of groups with connected users	9'096
Number of profiles with installation data	11'354
Number of groups without any sub-groups	10'290
Number of groups without any connected users	2'258
Number of groups found in dataset ACCESS list	26'990
Number of groups found in General Resource ACCESS list	34'806
Number of groups found in dataset cond. ACCESS list	
Number of groups found in General Resource cond. ACCESS list	26
Total number of CONNECTs	197'104

* Note: all repetitive profile names count as ONE record/entry only.

Number of groups with DFP segment	
Number of groups with OVM segment	
Number of groups with CSDATA segment	

(licencing is based on RACF DBs=SDs and/or number of user-IDs.)

75 Browse

Group profile - Summary

Rec.No **1**
Found **26**

EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by: GoLast Previous delFind

SYSCTGG	Owning profiles	Segments / assoc. data (to perform a search enter YES)
OWNER_ID G	G= <input type="text"/> U= <input type="text"/> 2 C= <input type="text"/> 3 D= <input type="text"/> R= <input type="text"/> 1 ZFS= <input type="text"/>	INSTD DFP OMVS OVM TME CSD
STCI	Datasets Permits Cond. General Resources Permits Cond.	YES
SID MTIZ	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> 2 <input type="text"/>	1
SYSCTLG	Owning profiles	Segments / assoc. data (to perform a search enter YES)
OWNER_ID G	G= <input type="text"/> U= <input type="text"/> C= <input type="text"/> D= <input type="text"/> R= <input type="text"/> ZFS= <input type="text"/>	INSTD DFP OMVS OVM TME CSD
SYS1	Datasets Permits Cond. General Resources Permits Cond.	
SID ALS2	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	
SYSCTLG	Owning profiles	Segments / assoc. data (to perform a search enter YES)
OWNER_ID G	G= <input type="text"/> U= <input type="text"/> C= <input type="text"/> D= <input type="text"/> R= <input type="text"/> ZFS= <input type="text"/>	INSTD DFP OMVS OVM TME CSD
SYS1	Datasets Permits Cond. General Resources Permits Cond.	
SID MTIZ	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	

75 Browse

RACF user profiles

(ALL information on ONE screen!)

TAG (each record)

The screenshot displays the RACF user profiles interface. At the top left is the 'racfra2' logo. The main title is 'USER profiles'. On the right, it shows 'Rec.No 1' and 'Found 2'. Below this are buttons for 'Groups', 'Datasets', 'General Res.', and 'EXIT'. The interface is filled with numerous navigation and search buttons, including 'PDF', 'MAIL', 'ShowALL', 'GoFirst', 'Next', 'Find', 'addFind', 'EXEC Find', 'SORT', 'AU', 'DU', 'VIEW as or by:', 'GoLast', 'Previous', 'Quick Find', 'delFind', 'NMAP', 'TSO', 'OPERparm', 'NETVIEW', 'LNOTES', 'PROXY', 'Category', 'Connects', 'Certificate', 'DMAP', 'CICS', 'WORKATT', 'DCE', 'NDS', 'EIM', 'Classes', 'RRSF', 'DFP', 'Language', 'OMVS', 'OVM', 'KERB', and 'CSDATA'. On the left side, there are radio buttons for 'ON' and 'OFF', and a dropdown menu currently set to 'ALS2'. A red box labeled 'TAG (each record)' points to the 'ALS2' dropdown, and another red box labeled 'SMF-ID (SID)' points to the 'ALS2' dropdown.

SMF-ID (SID)

RA2FM_MAIN_V3R2M4 - 2

USER profiles

Rec.No **1** Found **2** Groups Datasets General Res. EXIT

ON OFF PDF MAIL ShowALL GoFirst Next Find delFind AU
 VIEW as or by: GoLast Previous Quick Find delFind DU
 NMAP TSO OPERparm NETVIEW LNOTES PROXY
 Category Connects Certificate DMAP CICS WORKATT DCE NDS EIM
 Classes RRSF DFP Language OMVS OVM KERB CSDATA

D= 1 NAME AAAXVJ Total Connects 7 Related Access Related: ICF Catalog Datasets Clusters AU
 Total Permits 99 Indirect 1310 Total entries: 1433 1468 34 DU
 IDM Y SDC@ 2
 CREATE_DATE 2005-11-19
 MVS UID 000001815
 DATA MGMTCLAS STORCLAS
 NAME matching OWNER_IDs in profiles: G= U= C=
 D= 1 R=
 OWNER UHUMANS1 G
 OWNER_ID matching OWNER_IDs in profiles: U= 3899 C= 390
 R=
 CLASS_AUTH 1
 ADSP NO ROLE
 SPECIAL NO
 PWD_INTERVAL 090
 PWD_DATE 2005-11-16
 2 DEFGRP_ID UHUMANS1
 LASTJOB_TIME 17:54:02
 LASTJOB_DATE 2005-11-16
 PROGRAMMER * removed *
 INSTALL_DATA * removed *
 UAUDIT NO
 AUDITOR YES

CICS
 OPIDENT
 NOFORCE
 TIMEOUT
 TSO
 ACCO
 K657/
 DEST
 HOLD_CLASS JOB_CLASS
 MSG_CLASS SYSOUT_CLASS
 LOGON_PROC \$TSO
 LOGON_SIZE 0000102400
 LOGON_MAX 0000102400
 PERF_GROUP 0000016448
 USER_DATA X<0000>
 UNIT_NAME SYSDA
 SECLABEL
 Language
 TARG_US
 VER
 MA
 MAN
 REMOTE_PEND
 LOCAL_PEND
 PWD_SYNC
 REM_REFUSAL
 DEFINE_DATE
 DEFINE_TIME
 ACCEPT_DATE
 ACCEPT_TIME
 CREATOR_ID

75 Browse

Generate commands

Show Related connects

Show DCOLLECT infos

Show Dataset profile details

Identity management record present?

Show All related permits

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

OIDCARD NO

PWD_GEN 007

REVOKE_CNT 000

MODEL

SECLEVEL 000

REVOKE_DATE

RESUME_DATE

ACCESS_SUN YES

ACCESS_MON YES

ACCESS_TUE YES

ACCESS_WED YES

ACCESS_THU YES

ACCESS_FRI YES

ACCESS_SAT YES

START_TIME

END_TIME

SECLABEL

ATTRIBS

PWDENV_EXISTS NO

PWD_ASIS

PHR_DATE

PHR_GEN

CERT_SEQN

PPHENV_EXISTS

Group authority: Related Access

NAME	AUTH	SUPGRP_ID
<input type="text"/>		
FUNOS001	USE	FUNOS0B
G10PDATA	USE	FUNG10E
TSOD	USE	FUNTSOE
TSOM	USE	FUNTSOE
TSOP	USE	FUNTSOE
UHUMANS1	USE	UAA2OME

WORK_ATTRIBUTES

AREA_NAME

BUILDING

DEPARTMENT

ROOM

ADDR_LINE1

ADDR_LINE2

ADDR_LINE3

ADDR_LINE4

ACCOUNT

Navigation

OMVS

UID No. HFS/ZFS owner UID=

HOME_PATH

PROGRAM

CPUTIMEMAX

ASSIZEMAX

FILEPROCMAX

PROCUSERMAX

THREADSMAX

MMAPAREAMAX

MEMLIMIT

SHMEMAX

OVM

UID

HOME_PATH

PROGRAM

FSROOT

75
Browse

RA2FM_MAIN_V3R2M4 - 2

USER profiles

Rec.No 1 Found 2

Groups Datasets General Res. EXIT

ON OFF

PDF MAIL ShowALL GoFirst Next Find SORT AU

VIEW as or by: GoLast Previous Quick Find DU

NMAP TSO OPERparm NETVIEW LNOTES PROXY

Category Connects Certificate DMAP CICS WORKATT DCE NDS EIM

Classes RRSF DFP Language OMVS OVM KERB CSDATA

D= 1 NAME AAAXVJ Total Connects 7 Related Access Related: ICF Catalog Datasets Clusters AU

IDM Y SDC@ 2 Total Permits 99 Indirect 1310 Total entries: 1433 1468 34 DU

DATAAPPL DATACLAS MGMTCLAS STORCLAS

CS DEA OPCODE CRSL_KEY TSL_KEY

OWNER_ID UHUMANS1 G 2 OWNER_ID matching U= 3899 C= 07 OWNER_IDs in profiles: D= R=

CLASS_AU 1

ADSP NO SPECIAL NO OPER NO REVOKE NO GRPACC NO PWD_INTERVAL 090 PWD_DATE 2005-11-16

2 DEFGRP_ID UHUMANS1 LASTJOB_TIME 17:54:02 LASTJOB_DATE 2005-11-16 PROGRAMMER * removed * INSTALL_DATA * removed *

UAUDIT NO AUDITOR YES

TSO ACCOU KR

DEST HOLD_CLASS JOB_CLASS MSG_CLASS SYSOUT_CLASS LOGON_PROC \$TSO LOGON_SIZE 0000102400 LOGON_MAX 0000102400 PERF_GROUP 0000016448 USER_DATA X<0000> UNIT_NAME SYSDA SECLABEL

RSF TARG_NODE TARG_USER_ID VERSION RSF_PEER MANAGING MANAGED REMOTE_PEND LOCAL_PEND PWD_SYNC REM_REFUSAL DEFINE_DATE DEFINE_TIME ACCEPT_DATE ACCEPT_TIME CREATOR_ID

75 Browse

Generate RACF commands

Show Dataset profile details

A user-ID is permitted thru (many) connect groups!

Show DCOLLECT infos

Show Related connects

Show All related permits

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

CERTDATA (NAME, LABEL)

CATEGORY 00001

DIGTNMAP class associated with this user ID. (Label, map name)

DIGTDMAP class associated with this user ID. (Label, map name)

Installation Data (user: name, data, flag)

CSData

TYPE	KEY	VALUE
CHAR	key	value

75 | Browse

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

AAAXVJ

H B U D [Navigation Icons]

CONNECTED TO:													
GRP_ID	CONNECT_DATE	OWNER_ID	LASTCON	UACC	ADSP	SPECIAL	OPER	REVOKE	GRP_ACC	NOTERM	GRP_AUDIT	REVOKE & RESUME DATE	
[Redacted]				NONE	NO	NO	NO	NO	NO	NO	NO		
[Redacted]				NONE	NO	NO	NO	NO	NO	NO	NO		
[Redacted]				NONE	NO	NO	NO	NO	NO	NO	NO		
TSOD	2005-02-01	TSOD		NONE	NO	NO	NO	NO	NO	NO	NO		
TSOM	2005-02-01	AAAZHS		NONE	NO	NO	NO	NO	NO	NO	NO		
TSOP	2005-02-01	TSOP		NONE	NO	NO	NO	NO	NO	NO	NO		
UHUMANS1	2005-01-19	UHUMANS1	2005-11-16	NONE	NO	NO	NO	NO	NO	NO	NO		

75 [Icons] Browse

AAAXVJ

Total Permits



- [All access lists \(list form\)](#)
- [Form view of all base access lists](#)
- [Related Dataset profiles 1](#)

The user appears in the following access lists. Indirect access is provided due to connects to n-1 group-IDs..

DATASET ACCESS

5

CATALOG entries found 785

[Form view of access lists](#)

INDirect ACCESS 750

NAME	VOL	AUTH_ID	ACCESS
RA2.**		AAAXVJ	READ
RA2SR.**		AAAXVJ	UPDATE
RA21.**		AAAXVJ	READ
RA22.**		AAAXVJ	UPDATE
[REDACTED]		AAAXVJ	READ

All profiles related to the user-ID

COND DATASET ACCESS

INDirect ACCESS

NAME	VOL	CATYPE	CANAME	AUTH_ID	ACCESS	NET_ID

RACF user profiles (cont.)

Access related profile information – i.e. related to user-ID/Connect group

RA2FM_MAIN_V3R2M4 - 3

Dataset profiles
(Access list related to connect group-IDs)

Rec.No: 267
Found: 750

Groups Users General Res. EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by: EXPORT GoLast Previous Quick Find delFind

NAME	SID	OWNER_ID	UACC	WARNING	AUTH_ID	ACCESS	Type
LNK.REXX.**	ALS2		READ	NO	FUNOS001	ALTER	G
LNK.SCM%%.**	ALS2		READ	NO	FUNOS001	ALTER	G
LNK.SCM1%.P.**	ALS2		READ	NO	FUNOS001	ALTER	G
LNK.SEA%**	ALS2		READ	NO	FUNOS001	ALTER	G
LNK.SICS%**	ALS2		READ	NO	FUNOS001	ALTER	G
LPA.**	ALS2		READ	NO	FUNOS001	ALTER	G

75 Browse

USER profiles
(Access to the following files per CATALOG)

Rec.No: 1
Found: 2

Groups Datasets General Res. EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by: GoLast Previous Quick Find delFind

NAME	PROGRAMMER	CREATE_DATE	SPEC	OPER	REVOKE	GRPACC	OWNER_ID	Int	DEFGRP_ID	UAUDIT	AUDITOR	PWD_DATE	IDM	
SID	INSTALL_DATA	No.Connects / Permits												
AAAXVJ	* removed *	2005-01-19	NO	NO	NO	NO	UHUMANS1	090	UHUMANS1	NO	YES	2005-11-16	Y	
ALS2	* removed *												7	99

785

NAME (access via standard PERMIT = AUTH_ID)	AUTH_ID	ACCESS

NAME (access via connect group(s) - only the first group is shown as auth-id)	AUTH_ID	ACCESS
SYS1.MT11.DMP00012	FUNOS001	ALTER
SYS1.**	CATALOG.OS390.MASTER	

RACF user profiles (cont.)

AAAXVJ
Total Permits 94

RA2FM_MAIN_V3R2M4 - 2

GENERAL RESOURCE ACCESS 94

Form view of access lists

INDIRECT ACCESS 560

NAME	CLASS_NAME	AUTH_ID	ACCESS
RA2.RA4\$AJ10.ACTIONS.*	FACILITY	AAAXVJ	READ
RA2.RA4\$AJ10.COMMANDS.*	FACILITY	AAAXVJ	READ
RA2.RA4\$AJ10.CONDNAMES.*	FACILITY	AAAXVJ	READ
RA2.RA4\$AJ10.RRRGPR	FACILITY	AAAXVJ	READ
RA2.RA4\$AJ10.SKELETON.*	FACILITY	AAAXVJ	READ
RA2.RA4\$AJ10.TABLES.*	FACILITY	AAAXVJ	READ
RA2.RA4\$BROD	FACILITY	AAAXVJ	READ
RA2.RA4\$PWR.RESUME	FACILITY	AAAXVJ	READ
RA2.RA4\$PWS.PASSWORD	FACILITY	AAAXVJ	READ
RA2.RA4\$RESP.**	FACILITY	AAAXVJ	READ

COND General Resource ACCESS

NAME	TYPE	CANAME	AUTH_ID	ACCESS	NET_ID
		CACRITERIA			

75 Browse

Callouts:
- All related profiles to the user-ID
- Open new windows to see all details on ONE screen
- InDirect© access shows that the user-ID has access to other resources via CONNECT groups! (GAC entries are excluded)

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

AAAXVJ

H B U D

OPERPARM

STORAGE	<input type="text"/>	ROUTE001	<input type="text"/>	ROUTE033	<input type="text"/>	ROUTE065	<input type="text"/>	ROUTE097	<input type="text"/>	LOGCMDRESP	<input type="text"/>
MASTERAUTH	<input type="text"/>	ROUTE002	<input type="text"/>	ROUTE034	<input type="text"/>	ROUTE066	<input type="text"/>	ROUTE098	<input type="text"/>	MIGRATIONID	<input type="text"/>
ALLAUTH	<input type="text"/>	ROUTE003	<input type="text"/>	ROUTE035	<input type="text"/>	ROUTE067	<input type="text"/>	ROUTE099	<input type="text"/>	DELOPERMSG	<input type="text"/>
SYSAUTH	<input type="text"/>	ROUTE004	<input type="text"/>	ROUTE036	<input type="text"/>	ROUTE068	<input type="text"/>	ROUTE100	<input type="text"/>	RETRIEVE_KEY	<input type="text"/>
IOAUTH	<input type="text"/>	ROUTE005	<input type="text"/>	ROUTE037	<input type="text"/>	ROUTE069	<input type="text"/>	ROUTE101	<input type="text"/>	CMDSYS	<input type="text"/>
CONSAUTH	<input type="text"/>	ROUTE006	<input type="text"/>	ROUTE038	<input type="text"/>	ROUTE070	<input type="text"/>	ROUTE102	<input type="text"/>	UD	<input type="text"/>
INFOAUTH	<input type="text"/>	ROUTE007	<input type="text"/>	ROUTE039	<input type="text"/>	ROUTE071	<input type="text"/>	ROUTE103	<input type="text"/>	ALTGRP_ID	<input type="text"/>
TIMESTAMP	<input type="text"/>	ROUTE008	<input type="text"/>	ROUTE040	<input type="text"/>	ROUTE072	<input type="text"/>	ROUTE104	<input type="text"/>	AUTO	<input type="text"/>
SYSTEMID	<input type="text"/>	ROUTE009	<input type="text"/>	ROUTE041	<input type="text"/>	ROUTE073	<input type="text"/>	ROUTE105	<input type="text"/>	HC	<input type="text"/>
JOBID	<input type="text"/>	ROUTE010	<input type="text"/>	ROUTE042	<input type="text"/>	ROUTE074	<input type="text"/>	ROUTE106	<input type="text"/>	INT	<input type="text"/>
MSGID	<input type="text"/>	ROUTE011	<input type="text"/>	ROUTE043	<input type="text"/>	ROUTE075	<input type="text"/>	ROUTE107	<input type="text"/>	UNKN	<input type="text"/>
X	<input type="text"/>	ROUTE012	<input type="text"/>	ROUTE044	<input type="text"/>	ROUTE076	<input type="text"/>	ROUTE108	<input type="text"/>		
WTOR	<input type="text"/>	ROUTE013	<input type="text"/>	ROUTE045	<input type="text"/>	ROUTE077	<input type="text"/>	ROUTE109	<input type="text"/>		
IMMEDIATE	<input type="text"/>	ROUTE014	<input type="text"/>	ROUTE046	<input type="text"/>	ROUTE078	<input type="text"/>	ROUTE110	<input type="text"/>		
CRITICAL	<input type="text"/>	ROUTE015	<input type="text"/>	ROUTE047	<input type="text"/>	ROUTE079	<input type="text"/>	ROUTE111	<input type="text"/>		
EVENTUAL	<input type="text"/>	ROUTE016	<input type="text"/>	ROUTE048	<input type="text"/>	ROUTE080	<input type="text"/>	ROUTE112	<input type="text"/>		
INFO	<input type="text"/>	ROUTE017	<input type="text"/>	ROUTE049	<input type="text"/>	ROUTE081	<input type="text"/>	ROUTE113	<input type="text"/>		
NOBROADCAST	<input type="text"/>	ROUTE018	<input type="text"/>	ROUTE050	<input type="text"/>	ROUTE082	<input type="text"/>	ROUTE114	<input type="text"/>		
ALL	<input type="text"/>	ROUTE019	<input type="text"/>	ROUTE051	<input type="text"/>	ROUTE083	<input type="text"/>	ROUTE115	<input type="text"/>		
JOBNAMES	<input type="text"/>	ROUTE020	<input type="text"/>	ROUTE052	<input type="text"/>	ROUTE084	<input type="text"/>	ROUTE116	<input type="text"/>		
JOBNAMEST	<input type="text"/>	ROUTE021	<input type="text"/>	ROUTE053	<input type="text"/>	ROUTE085	<input type="text"/>	ROUTE117	<input type="text"/>		
SESS	<input type="text"/>	ROUTE022	<input type="text"/>	ROUTE054	<input type="text"/>	ROUTE086	<input type="text"/>	ROUTE118	<input type="text"/>		
SESST	<input type="text"/>	ROUTE023	<input type="text"/>	ROUTE055	<input type="text"/>	ROUTE087	<input type="text"/>	ROUTE119	<input type="text"/>		
STATUS	<input type="text"/>	ROUTE024	<input type="text"/>	ROUTE056	<input type="text"/>	ROUTE088	<input type="text"/>	ROUTE120	<input type="text"/>		
		ROUTE025	<input type="text"/>	ROUTE057	<input type="text"/>	ROUTE089	<input type="text"/>	ROUTE121	<input type="text"/>		
		ROUTE026	<input type="text"/>	ROUTE058	<input type="text"/>	ROUTE090	<input type="text"/>	ROUTE122	<input type="text"/>		
		ROUTE027	<input type="text"/>	ROUTE059	<input type="text"/>	ROUTE091	<input type="text"/>	ROUTE123	<input type="text"/>		
		ROUTE028	<input type="text"/>	ROUTE060	<input type="text"/>	ROUTE092	<input type="text"/>	ROUTE124	<input type="text"/>		
		ROUTE029	<input type="text"/>	ROUTE061	<input type="text"/>	ROUTE093	<input type="text"/>	ROUTE125	<input type="text"/>		
		ROUTE030	<input type="text"/>	ROUTE062	<input type="text"/>	ROUTE094	<input type="text"/>	ROUTE126	<input type="text"/>		
		ROUTE031	<input type="text"/>	ROUTE063	<input type="text"/>	ROUTE095	<input type="text"/>	ROUTE127	<input type="text"/>		
		ROUTE032	<input type="text"/>	ROUTE064	<input type="text"/>	ROUTE096	<input type="text"/>	ROUTE128	<input type="text"/>		

OPERPARM Scope

75 Browse

All fields are ASIS (identical) from the IRRDBU00

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

AAAXVJ

H B U D ← ↑ ↓ →

DCE

UUID
DCE_NAME

HOMEUUID
HOMECELL

AUTOLOGIN

NETVIEW

IC

CONSNAME
CTL
MSGRECVR
NGMFADMN
NGMFVSPN

OPCLCASS Values
Domain Values

LOTUS NOTES

SNAME

NDS

UNAME

75 Browse

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

AAAXVJ **KERBEOS**

KERBNAME

MAX_LIFE

KEY_VERS

ENCRYPT_DES

ENCRYPT_DES3

ENCRYPT_DESD

ENCRPT_A128


ENCRPT_A256

KEY_FROM

PROXY (LDAP)

LDAPHOST

BIND_DN

75  Browse

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

AAAXVJ is owner of the following profiles

Ownership Groups Users Connect Group/User Datasets

General Resources

AAAXVJ is related to the following started tasks

CLASS	NAME	USER_ID	GROUP_ID	TRUSTED	PRIVILEGED	TRACE

75 Browse

View all ownerships by user-IDS

Shows where the user-ID is profile OWNER

User-Id defined as STC ID

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 2

AAAXVJ has access via the following catalog entries (access not = "NONE") ICF Catalog

Real permits: RACF_profile Entry_type Entry_name 0

Permitted via the selected user-ID

InDirect access: 785

RACF_profile	Entry_type	Entry_name	Access
SYS1.**	CLUSTER	SYS1.VVDS.VOS3P8A	FUNOS001 ALTER
SYS1.**	->DATA	SYS1.VVDS.VOS3P8A	FUNOS001 ALTER
SYS1.**	CLUSTER	SYS1.VVDS.VOS39P8	FUNOS001 ALTER
SYS1.**	->DATA	SYS1.VVDS.VOS39P8	FUNOS001 ALTER
SYS1.**	CLUSTER	SYS1.VVDS.VALS001	FUNOS001 ALTER
SYS1.**	->DATA	SYS1.VVDS.VALS001	FUNOS001 ALTER

This user-ID has access to these REAL datasets via connect groups

Global access = GAC entries 19

RACF_profile	Entry_type	Entry_name	Access
ISP.**	NONVSAM	ISP.MAKEHTML.TXT	READ
ISP.**	NONVSAM	ISP.SISPALIB	READ
ISP.**	NONVSAM	ISP.SIXXXLIB	READ
ISP.**	NONVSAM	ISP.SISPEXEC	READ
ISP.**	NONVSAM	ISP.SISPGENU	READ
ISP.**	NONVSAM	ISP.SISPGMLI	READ

Note: Datasets covered by a symbolic name are not listed e.g. &RACUID,** etc.

75 Browse

RACF user profiles – table view 1+2

RA2FM_MAIN_V3R2M4 - 3

USER profiles Rec.No **1** Found **2** Groups Datasets General Res. EXIT

Alt View PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by: GoLast Previous Quick Find delFind

NAME	PROGRAMMER	CREATE_DATE	SPEC	OPER	REVOKE	GRPACC	OWNER_ID	Int	DEEGRP_ID	UAUDIT	AUDITOR	PWD_DATE	IDM
SID	INSTALL_DATA		No.Connects / Permits										
AAAXVJ	* removed *	2005-01-19	NO	NO	NO	NO	UHUMANS1	090	UHUMANS1	NO	YES	2005-11-16	Y
ALS2	* removed *		7 99										
AAAXVJ	* removed *	2005-01-19	NO	NO	NO	NO	UHUMANS1	090	UHUMANS1	NO	YES	2005-11-16	Y
MTIZ	* removed *		7 99										

RA2FM_MAIN_V3R2M4 - 4

USER profiles Rec.No **1** Found **2** Groups Datasets

PDF MAIL ShowALL GoFirst Next Find addFind EXEC

VIEW as or by: GoLast Previous Quick Find delFind

NAME	PROGRAMMER	SPEC	OPER	REVOKE	GRPACC	UAUDIT	AUDITOR	SID	No.Connects / Permits "INDirect Permits"	No. DSN Profs	No. entries Catalog / NONVSAM / Cluster
AAAXVJ	* removed *	NO	NO	NO	NO	NO	YES	ALS2	7 99 1'310	1	1'433 1'468 34
AAAXVJ	* removed *	NO	NO	NO	NO	NO	YES	MTIZ	7 99 1'310	1	

75 Browse

All profiles are in table style format available

Space infos based on DCOLLECT

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 5

USER profiles
(Space allocated per user-ID)

Rec.No **1**
Found **3**

Groups Datasets General Res. EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT
GoLast Previous Quick Find delFind

VIEW as or by: ▾

NAME	PROGRAMMER	SPEC	OPER	SID	Allocated space in MB's			Number of DCOLLECT files as:		
					Datasets	HSM-Backup	HSM-Migrated	Datasets	HSM-Backup	HSM-Migrated
CANDLE	* removed *	NO	NO	ALS2		7748	2'142		914	388
IBMUSER	* removed *	YES	NO	ALS2	630			78		
AAAXVJ	* removed *	NO	NO	ALS2	6'276			1'468		
Total of all found user names:					6'906	7748	2'142	1'546	914	388

75 Browse

As all RACF profiles are 'related' one way the other to DCOLLECT -
You can even view SPACE infos. The space has been converted to MB's already on the host by RA2FM and are approx. values due to rounding!

RACF user profiles (cont.)

RA2FM_MAIN_V3R2M4 - 6

User profiles - Summary

EXIT

Total

Number of profiles	24'648
Number of profiles without any installation data	
Number of profiles with ADSP=YES	
Number of profiles with OPER=YES	6
Number of profiles with GRPACC=YES	2
Number of profiles with NEVER LOGGED ON	1'014
Number of profiles with UAUDIT=YES	52
Number of profiles with REVOKE_DATE	14
Number of profiles with no PWD_DATE	4'826
Number of profiles with PWDENV_EXISTS=YES	
Number of profiles without any SECLABEL	24'648
Number of profiles with CLASS authorization	830
Number of users found in dataset ACCESS list	1'864
Number of users found in dataset cond. ACCESS list	
Number of users with TSO segment	3'810
Number of users with DFP segment	4
Number of users with OVM segment	
Number of users with CSDATA segment	
Number of users with LANGUAGE segment	8
Number of users with RSF	
Number of users with DCE segment	90
Number of users with NDS segment	
Number of users with PROXY segment	

* Note: all repetitive profile names count as ONE record/entry only.

Number of profiles with installation data	24'648
Number of profiles with SPECIAL=YES	20
Number of profiles with REVOKE=YES	1'658
Number of profiles with PWD_INTERVAL=000	1'338
Number of profiles with MODEL DATA	32
Number of profiles with AUDITOR=YES	18

75 Browse

Various summary reports

RA2FM_MAIN_V3R2M4 - 7

User profile - Summary

Rec.No 1
Found 2

EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by: GoLast Previous delFind

AAAXVJ * removed *

CLASS authorization	1	CONNECTS	7
Dataset ACCESS list	5	General Resource ACCESS list	94
Dataset cond. ACCESS list		General Resource cond. ACCESS list	

Owning profiles: G= U= C= D= 1 R= 1

No. HFS/ZFS owner UID=

No. Dataset profiles = 1

*Indirect PERMITS = 1310

Segments / assoc. data (to perform a search enter YES)

CERT	KERB	OMVS	YES
CICS	LANGUAGE	OVM	
CSDATA	LNOTES	PROXY	
DCE	NDS	RSF	
DFP	NETVIEW	TSO	YES
DMAP	NMAP	UserINSTDATA	
EIM	OPERPARM	WORKATTR	

75 Browse

RA2FM_MAIN_V3R2M4 - 6

USER profiles - Summary (no. of owners, permits, segments)

EXIT

Rec.No 1
Found 2

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find

VIEW as or by: GoLast Previous delFind

NAME	G=	U=	C=	D=	R=	CAT	CLA	GCON	INSTD	CON	RSE	CERT	NMAP	DMAP
AAAXVJ					1			1		7				
* removed *														
ZFS=														
Datasets			Permits	Cond.	*Indirect*									
UHUMANS1	1		5		1310									
General Resources			Permits	Cond.										
SID ALS2			94											
WRK	OMVS	NETV	NOPC	NDOM	DCE	OVM	LNOT	NDS						
KERB	PROXY	EIM	CSD											

75 Browse

RACF dataset profiles

(ALL information on ONE screen!)

The screenshot displays the RACF Dataset Profiles interface. At the top left is the 'racfra2' logo. The main title is 'Dataset profiles'. To the right, it shows 'Rec.No 1' and 'Found 12006'. Below this are buttons for 'Groups', 'Users', 'General Res.', and a red 'EXIT' button. On the left side, there are radio buttons for 'ON' and 'OFF', and a dropdown menu set to 'ALS2'. The central area contains a grid of buttons: 'PDF', 'MAIL', 'ShowALL', 'GoFirst', 'Next', 'Find', 'addFind', 'EXEC Find', 'SORT', 'AD', 'GoLast', 'Previous', 'Quick Find', 'delFind', and 'DD'. At the bottom, there is a 'VIEW as or by:' dropdown menu and a row of buttons: 'Category', 'Cond.Acc.', 'Volumes', 'Access', 'DFP', and 'TME'.

RA2FM_MAIN_V3R2M4 - 2

Dataset profiles

Rec.No **1** Found **2**

Groups Users General Res. **EXIT**

ON OFF

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT AD

VIEW as or by: GoLast Previous Quick Find delFind DD

Category Cond.Acc Volumes Access DFP TME

NAME AAAXVJ.** HQL is: U G-LVL RESOWNER_ID

VOL

GENERIC YES SDC@ - HQL = AUTH_ID: 2 HQL: AAAXVJ OWNER_ID appears in current access lists: N

CREATE_DATE 2005-02-01 G-LVL Current HQL appears in all access lists: D: 5 Gres: 94 HQL appears in current access lists: N

OWNER_ID AAAXVJ U

LASTREF_DATE 2005-06-28

LASTCHG_DATE 2005-06-28

ALTER_CNT 00005

CONTROL_CNT 00000

UPDATE_CNT 00000

READ_CNT 00006

UACC READ

GRPDS NO

AUDIT_LEVEL ALL G-LVL

GRP_ID UHUMANS1 2

DS_TYPE

LEVEL 00

DEVICE_NAME

GAUDIT_LEVEL

INSTALL_DATA

WARNING NO

NOTIFY_ID

ERASE NO

AUDIT_OKQUAL UPDATE

AUDIT_FAQUAL CONTROL

GAUDIT_OKQUAL

GAUDIT_FAQUAL

ACCESS

ID	Type	ACCESS	SPEC	OPER	REV.
AAASM1	U	ALTER	YES	NO	NO
					* removed *

ACCESS (connected users of above groupIDs):

SHOW Volumes

View ICF Catalog 1399

View all Datasets 1445

View all Clusters 34

View SYSTEMDSN 27

View RMM 338

View CA1 24

View HSM Backup

View HSM Migrat

All identical ACCESS prof. 2

Identical ACCESS profiles 2

AClist aide to check by HQL 1

AClist aide duplicates per HQL

Pull down list - No guess work to find values!

Get related DCOLLECT data

If a group-ID - all connected user-IDs are show here.

RACF dataset profiles – cont.

RA2FM_MAIN_V3R2M4 - 2

SECLEVEL 000

RETENTION 00000

SECLABEL

VOLUMES

CATEGORY 00001

AAAXVJ.**

Easy to find any defined accesses due to pull down functions ...

Conditional access

CATYPE	CANAME	AUTH_ID	ACCESS	NET_ID
RRRGRAM	IXPMAIN	CACRITERIA		

75 | Browse

RACF dataset profiles – cont.

RA2FM_MAIN_V3R2M4 - 2

Related dataset information pertaining to the current RACF profile:

ICF Catalog entries Previous Next View ICF Catalog SHOW Volumes

\$TESTDE2

1399

ICF Catalog - Entry type	Entry name / protecting profile name	Catalog	Volser	Profile owner	Warning	UACC
NONVSAM	AAAXVJ.\$DELME.BIHTEST3			AAAXVJ		UPDATE
	AAAXVJ.**					
NONVSAM	AAAXVJ.\$FB132			AAAXVJ		UPDATE
	AAAXVJ.**					
NONVSAM	AAAXVJ.\$FB133			AAAXVJ		UPDATE

The smartest way to view related data ...

RA2FM_MAIN_V3R2M4 - 2

Active Datasets rel. to current RACF profile Previous Next View all Datasets SHOW Volumes

1445

DSNAM RACF_PROFNAME	EMNGD EDVVR	NOSPC VSAMI	NOFM1	RACFD SMSM	TEMP PDSE	GDS REBLK	CHIND CKDSI	NOVVR INTCG	INICF ALLFG	USEFG SECFG	NMBFG PDSEX	STRP DDMEX
AAAXVJ.VBA.TEST	NO	NO	NO	NO	NO	NO	YES	YES	NO	YES	YES	NO
AAAXVJ.**	NO	NO		NO	NO	NO	NO	NO	YES	YES	NO	NO
AAAXVJ.RA7352.LINKLIB	NO	NO	NO	NO	NO	NO	YES	YES	NO	YES	NO	NO
AAAXVJ.**	NO	NO		NO	NO	NO	NO	NO	YES	YES	NO	NO
AAAXVJ.RA7352.REXXLIB	NO	NO	NO	NO	NO	NO	YES	YES	NO	YES	YES	NO
AAAXVJ.**	NO	NO		NO	NO	NO	NO	NO	YES	YES	NO	NO
AAAXVJ.RA2300.LINKLIB	NO	NO	NO	NO	NO	NO	YES	YES	NO	YES	NO	NO
AAAXVJ.**	NO	NO		NO	NO	NO	NO	NO	YES	YES	NO	NO
AAAXVJ.RA7353.LINKLIB	NO	NO	NO	NO	NO	NO	YES	YES	NO	YES	NO	NO

75 Browse

RACF dataset profiles – cont.

RA2FM_MAIN_V3R2M4 - 2

Total ALLSP(MB) USESP(MB) SCALL(MB) Avg. ALLSP tracks
 5'858 2'879 34'027 112'474

Previous Next

1445

DSNAM	DSSER	DSORG	RECRD	LRECL	BKLNQ	ALLSP	USESP	SCALL	CREDIT	
DATCL	STGCL	MGTC	STGRP							
AAAXVJ.VBA.TEST	OS39R8	PS	VB	1	255	27998	0	0	0	2013-11-13
AAAXVJ.RA7352.LINKLIB	ALS001	PO	U	1	0	27000	0	0	0	2010-07-10
AAAXVJ.RA7352.REXXLIB	ALS001	PO	FB	1	80	3120	2	0	0	2010-07-10
AAAXVJ.RA2000.LINKLIB	ALS001	PO	U	1	0	27000	0	0	0	2010-07-10

All NONSAM files related to the dataset profile

RA2FM_MAIN_V3R2M4 - 2

VSAM cluster related to current RACF profile

Previous Next View all Clusters SHOW Volumes

34

DSNAM	KSDS	ESDS	RRDS	LDS	KRDS	AIX	DATA	INDEX	RKR1ST	IXUPG	VRRDS	NSTAT	SRCI	G4G
ASSOC	NLR	DLR	CISZ	UPR	RTR	ASP								
RACF_PROFNAME	RKP	KLN	CISZ	CACI	CIS	CAS								
AAAXVJ.CSQ1.BSDS02.DATA	YES	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO
AAAXVJ.CSQ1.BSDS02		84		0		0		584		1461		151552		
AAAXVJ.**		0		4		4096		60						
AAAXVJ.CSQ1.BSDS02.INDEX	YES	NO	NO	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO
AAAXVJ.CSQ1.BSDS02		3		0		0		0						
AAAXVJ.**		0		4		1024		33						
AAAXVJ.CSQ1.LOGCOPY2.DS01.DATA	NO	NO	NO	YES	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO

All VSAM files related to the dataset profile

RACF dataset profiles – cont.

The image shows two screenshots from a RACF dataset management interface. The top screenshot displays a list of system datasets defined in PARMLIB, SMPE. The bottom screenshot shows the Security-Data-Classification for a specific dataset.

SYSTEM datasets defined in PARMLIB, SMPE . . .

Buttons: Previous, Next, View SYSTEM DATASETS, SHOW Volumes

Type	Dataset Name	APF	Volume
APFLIST	AAAXVJ.RA2249.LINKLIB	YES	ALS001
APFLIST	AAAXVJ.RA2250.LINKLIB	YES	ALS001
APFLIST	AAAXVJ.RA2270.LINKLIB	YES	ALS001
APFLIST	AAAXVJ.RA2300.LINKLIB	YES	ALS001
APFLIST	AAAXVJ.RA3270.LINKLIB	YES	ALS001
APFLIST	AAAXVJ.RA3300.LINKLIB	YES	ALS001

Any of the datasets with the same profile in PARMLIB?

Security-Data-Classification (AUTH_ID related to the dataset HLQ = group- or user-ID) S_D_C

Profile	Classification	APF	Access
1	low Risk	AAAXVJ	READ
4	Critical	AAAXVJ	ALTER

75 Browse

RACF dataset profiles – table view

RA2FM_MAIN_V3R2M4 - 3

Dataset profiles Rec.No **1** Found **2** Groups Users General Res. EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by: GoLast Previous Quick Find delFind

NAME	GEN.	CREATE_DATE	OWNER_ID	LASTREF_DATE	UACC	AUDIT_LEVEL	LEVEL	WARNING	NOTIFY_ID
AAAXVJ.**	YES	2005-02-01	AAAXVJ	2005-06-28	READ	ALL	00	NO	
U ALS2 * removed *									
AAAXVJ.**	YES	2005-02-01	AAAXVJ	2005-06-28	READ	ALL	00	NO	

RA2FM_MAIN_V3R2M4 - 4

Dataset profiles (Grouped by owner-Id) Rec.No **1** Found **12006** Groups Users General Res. EXIT

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT


VIEW as or by: GoLast Previous Quick Find delFind

NAME	GEN.	CREATE_DATE	OWNER_ID	LASTREF_DATE	UACC	AUDIT_LEVEL	LEVEL	WARNING	NOTIFY_ID
AAAANJ.**	YES	2000-07-25	AAAANJ	2000-07-25	READ	FAIL	00	NO	
ALS2 * removed *									
AAAANJ.**	YES	2000-07-25	AAAANJ	2000-07-25	READ	FAIL	00	NO	
MTIZ * removed *									
AAAANK.**	YES	1990-06-29	AAAANK	1990-06-29	NONE	FAIL	00	NO	AAAANK
ALS2 * removed *									

75 Browse

RACF access list table views

RA2FM_MAIN_V3R2M4 - 3

 **Dataset profiles**
(Access list)

Rec.No **1**
Found **108**


Groups Users General Res. **EXIT**

ON OFF

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT

VIEW as or by: EXPORT GoLast Previous Quick Find delFind

NAME	SID HLQT	FMTAG	OWNER_ID PROGRAMMER	UACC	WARNING	AUTH_ID	ACCESS PROGRAMMER	Type
SYS1.**	ALS2 G			READ	NO	FUNESM01	UPDATE	G
SYS1.**	MTIZ G			READ	NO	FUNESM01	UPDATE	G
SYS1.**	ALS2 G			READ	NO	FUNOS0TB	CONTROL	G
SYS1.**	MTIZ G			READ	NO	FUNOS0TB	CONTROL	G

75  Browse



Dataset profiles - Summary

EXIT

* Note: all repetitive profile names count as ONE record/entry only.

	Total		
Number of profiles	12'006	Number of profiles with installation data	12'006
Number of profiles without any installation data		Number of profiles with NOTIFY	832
Number of profiles without any NOTIFY	11'174	Number of profiles with UACC=READ	5'946
Number of profiles with UACC=NONE	5'358	Number of profiles with UACC=CONTROL	14
Number of profiles with UACC=UPDATE	490	Number of profiles with UACC=ALTER	198
Number of profiles with UACC=EXECUTE		Number of profiles with GENERIC=NO	8
Number of profiles with GENERIC=YES	11'998	Number of profiles with WARNING=NO	11'992
Number of profiles with WARNING=YES	14	Number of profiles with LEVEL > 00	2
Number of profiles with LEVEL=00	12'004	Number of profiles with ERASE=NO	12'000
Number of profiles with ERASE=YES	6	Number of profiles with SECLABEL	
Number of profiles without any SECLABEL	12'006		

Number of datasets with DFP segment 34

Number of datasets with TME segment

Access list statistic:

Number of PERMITS=NONE	58
Number of PERMITS=UPDATE	3'072
Number of PERMITS=EXECUTE	8
Number of PERMITS=TRUST	

RA2FM_MAIN_V3R2M4 - 5

Dataset profiles - Summary (no. of segments) EXIT

Rec.No 1 PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find
 Found 28 VIEW as or by: GoLast Previous delFind

NAME	Type	OWNER_ID	SID	Segments							HLQ is a:
SYS1.*	G	OWNS1002	ALS2	CAT	CACC	VOL	ACC	INSTD	DFP	TME	GROUP
							YES				
							5				
SYS1.*	G	OWNS1002	MTIZ	CAT	CACC	VOL	ACC	INSTD	DFP	TME	GROUP
							YES				
							5				

75 Browse

General Resources

(ALL information on ONE screen!)

The screenshot displays the 'GEN. RES. profiles' interface. At the top left is the 'racfra2' logo. The title 'GEN. RES. profiles' is centered. To the right, 'Rec.No' is 1 and 'Found' is 14250. Navigation buttons for 'Groups', 'Users', 'Datasets', and 'EXIT' are present. Below these are various search and action buttons: 'ON/OFF', 'PDF', 'MAIL', 'ShowALL', 'GoFirst', 'Next', 'Find', 'addFind', 'EXEC Find', 'SORT', 'AR', 'DR', 'ALS2', 'VIEW as or by:', 'TAPEvol', 'Category', 'Members', 'Volumes', 'Access', 'Cond.Acc.', 'ACCTNUM', 'CICS', 'JES', 'TSO', 'FILTER', 'DMAP', 'SESSION', 'DLF', 'STARTED', 'SYSVIEW', 'CERT', 'FACILITx', 'IMS', 'SDSF', 'OPER', 'TME', 'KERB', 'PROXY', 'EIM', 'ALIAS', 'CDTINFO', 'ICTX', 'STARTED', 'DB2', 'MQS', 'CFDEF', 'SIGVER', 'ICSF', 'CERTN'. The interface is organized into a grid of buttons for easy navigation.



GEN. RES. profiles

Rec.No **1**
Found **14250**

Groups Users Datasets **EXIT**

ON OFF

PDF MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT AR

GoLast Previous Quick Find delFind DR

VIEW as or by: TAPEvol Category Members Volumes Access Cond.Acc.

ACCTNUM CICS JES TSO FILTER DMAP SESSION DLF STARTED SYSDVIEW CERT

FACILITx IMS SDSF OPER TME KERB PROXY EIM ALIAS CDTINFO ICTX

STARTED DB2 MQS CFDEF SIGVER ICSF CERTN

NAME	<input type="text"/>			AR
CLASS_NAME	NOTELINK			DR
GENERIC	NO			
CLASS	001			
CREATE_DATE	2005-06-01	G-LVL		
OWNER_ID	AAAAAP	U		
LASTREF_DATE	2005-06-01			
LASTCHG_DATE	2005-06-01			
ALTER_CNT	00000			
CONTROL_CNT	00000			
UPDATE_CNT	00000			
READ_CNT	00000			
UACC	NONE			
AUDIT_LEVEL	FAIL			
LEVEL	00			
GAUDIT_LEVEL	NONE			
INSTALL_DATA	* removed *			

ACCESS	ID	Type	Connected:	NAME	AUTH

ALL Identical ACCESS profiles

ACCESS profiles

Show all e.g. DB2 related classes! (there is more than just one class involved)

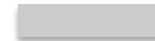
Pull down list - to find defined classes.

Show on a new screen details about the OWNER

Cont.

Like for all other RACF profiles (group, user, dataset):

- **all segments are displayed/accessible on ONE single screen**
- Table style views
- Generate RACF commands





General Resource profiles - Summary

EXIT

	Total		
Number of profiles	14'250	* Note: all repetitive profile names count as ONE record/entry only.	
Number of profiles without any installation data		Number of profiles with installation data	14'250
Number of profiles without any NOTIFY	13'558	Number of profiles with NOTIFY	692
Number of profiles with UACC=NONE	8'320	Number of profiles with UACC=READ	5'638
Number of profiles with UACC=UPDATE	44	Number of profiles with UACC=CONTROL	2
Number of profiles with UACC=EXECUTE		Number of profiles with UACC=ALTER	192
Number of profiles with GENERIC=YES	2'248	Number of profiles with GENERIC=NO	12'002
Number of profiles with WARNING=YES		Number of profiles with WARNING=NO	14'250
Number of profiles with LEVEL=00	14'250	Number of profiles with LEVEL > 00	
Number of profiles without APPL_DATA		Number of profiles with APPL_DATA	14'250
Number of profiles without any SECLABEL	14'250	Number of profiles with SECLABEL	
Number of resources with FILTER DATA segment		Number of resources with DMAP segment	
Number of resources with SESSION segment		Number of resources with DLF segment	
Number of resources with STARTED segment	642	Number of resources with SYSTEMVIEW segment	
Number of resources with CERT segment	6	Number of resources with TME segment	2
Number of resources with KERB segment		Number of resources with PROXY segment	
Number of resources with EIM segment		Number of resources with ALIAS segment	2
Number of resources with CDT segment	4	Number of resources with ICTX segment	
Number of resources with CFDEF segment		Number of resources with SIGVER segment	
Number of resources with ICSF segment			
Access list statistic:			
Number of PERMITS=NONE	926	Number of PERMITS=READ	38'148
Number of PERMITS=UPDATE	4'718	Number of PERMITS=CONTROL	848
Number of PERMITS=EXECUTE		Number of PERMITS=ALTER	4'844
Number of PERMITS=TRUST	6		

RACF table views

Bare bone views – faster access

The screenshot displays the RACF table views interface, organized into four main categories: Group profiles, User profiles, Dataset profiles, and General Resource profiles. Each category contains a list of profile types with their respective record counts.

Group profiles	User profiles	Dataset profiles	General Resource profiles
Base: 11354	Base: 24648	Base: 12006	Base: 14250
Subgroups: 11352	Category	Category	TAPEvol
Members: 197104	Instdata	Cond.Acc.	Category
Instdata	Classes: 830	Volumes: 8	Members: 16744
DFP: 664	Connects	Access: 28858	Volumes
OMVS: 664	RSF	Instdata	Access: 49490
OVM	CERT: 54	DFP: 34	Instdata
TME	NMAP	TME	Members: 158
CSDATA	DMAP		Volumes
	DFP: 4		Access

The 'Dataset - access' view shows a table with the following columns: NAME, VOL, AUTH_ID, TYPE, PROGRAMMER, ACCESS, ACCESS_CNT, HLQT, and SID. The first record is highlighted in blue.

NAME	VOL	AUTH_ID	TYPE	PROGRAMMER	ACCESS	ACCESS_CNT	HLQT	SID
SYS1.**		FUNESM01	G		UPDATE	00000	G	ALS2
SYS1.**		FUNESM01	G				G	MTIZ
SYS1.**		FUNOS0TB	G					ALS2
SYS1.**		FUNOS0TB	G					MTIZ
SYS1.**		FUNOS001	G			00000	G	ALS2
SYS1.**		FUNOS001	G		ALTER	00000	G	MTIZ

Annotations:

- A blue callout bubble points to the 'Base' profile in the 'Group profiles' section, stating: "Bare bone table views without any links and statistics from related material! Ideal to print basic tables ..."
- A blue callout bubble points to the 'SYS1.**' record in the 'Dataset - access' table, stating: "View profile details on a new screen"
- A blue callout bubble points to the 'SYS1.**' record in the 'Dataset - access' table, stating: "View details on a new screen – Group or USER"

SMF access information

The screenshot displays the 'Access' interface for record number 1, found 15 times. The interface includes a navigation bar with buttons for 'Groups', 'Users', 'Datasets', 'General Res.', and 'EXIT'. Below this, there are various action buttons like 'Summary', 'MAIL', 'ShowALL', 'GoFirst', 'Next', 'Find', 'addFind', 'EXEC Find', 'SORT', 'List View', 'PDF', 'DeleteALL', 'GoLast', 'Previous', 'Quick Find', 'delFind', 'IMPORT', and 'Table View'. The main area shows details for an 'ACCESS' event with 'SUCCESS' quality, occurring on 2013-06-30 at 21:21:00. The resource name is 'SYS2.NDV.PRO2.LOADLIB' and the request is 'READ'. A callout bubble points to the 'ACCESS' event type, containing the text: 'Load IRRADU00 to RA2FM in case you have to perform investigation about accesses. Normally you have per day >1 Mio records! RA/7 is for the daily usage a much better solution.' Below the details is a table with columns for 'EVEN_TYPE/QUAL.', 'REQUEST', 'GRANT', 'RES_NAME', 'CLASS', 'VOL', 'VIOL.', 'NDFND', and 'WARN'. The table contains three rows of data.

EVEN_TYPE/QUAL.	REQUEST	GRANT	RES_NAME	CLASS	VOL	VIOL.	NDFND	WARN
ACCESS SUCCESS	READ	UPDATE	SYS2.NDV.PRO2.LOADLIB	DATASET	2013-06-30	21:21:00		
		PR	SYS2.NDV.PRO2.*	NDV033	NO	NO	NO	
ACCESS SUCCESS	READ	UPDATE	SYS2.NDV.PRO2.ILOADLIB	DATASET	2013-06-30	21:21:00		



Scripts - pre-defined functions

EXIT

Group profiles	User profiles	Dataset profiles	General Resource profiles
Without connected users	IBMUSER	Warning mode only	Warning mode only
With connected users	Revoked	Notify defined	Notify defined
Without sub-groups	Special Operations	UACC not NONE	UACC not NONE
With sub-groups	Password=NO	Empty access list	Empty access list
Without SubGrps+connects	Never logged ON	Access-ID = ""	Access-ID = "" / NONE
Validate owner-ID	Validate owner-ID		owner-ID
Not in any access-list	Not in any access-list		Access list
Install.Data is empty	Install.Data is empty		empty
Own which profiles?	Not logged on >360 days		Access list
Numeric profiles only	More than 50 connects	Duplicate	STARTED IDs
	In any access list		Show duplicate members
	Connects&GroupAuth		Global access
	Owner NE default Group		Started TASK class
	Own which profiles?		
ZFS/HFS profiles	Numeric profiles only		
Verify ID_NAMES	CLAUTH=USER		
	AUTH=CONNECT		
	AUTH=JOIN		
	Group special		
	Explicit RRSF defined		

ONE-CLICK
to obtain
instant
results

Are you missing a script? Let us know!

RA2FM_MAIN_V3R2M4 - 4

RA2FM - More tools . . . EXIT

Dataset / Volume Info	System Module / Setup Info	RACF System Info
ICF Catalog 6543	Parmlib - IKJTSO.. 250	
NONVSAM Datasets 7725	Parmlib - SCHED/PPT 80	
VSAM Clusters 356	Parmlib - IEFS...	
DASD Volumes 27	Parmlib - IEASVC.. 256	
SYSTEM Datasets (LPA, LNK, APF, PAGE, ...) 181	Parmlib - IFAEDLIS 42	
CA1 - TMS 5360		
RMM - TMS 25086		
HSM - Backup 81058		
HSM - Migrated 21064		

75 Browse

All dataset names from e.g. DCOLLECT etc. are automatically related to the RACF profile names. Hence easy to view who has access to them.

Number of records present / loaded

Special datasets incl. their RACF profiles are shown.

All datasets have a linked/related RACF profile name. RA2FM on the host obtains all related RACF profiles!

More (samples) — DSNs are with RACF profile name!

RA2FM_MAIN_V3R2M4 - 3

ICF Catalog Rec.No 1 Found 358

MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT
 DeleteALL GoLast Previous Quick Find delFind ClearTAGs IMPORT

Entry_type	Entry_name	RACF Profile	No.Permits	Owner	Volume
->DATA	SYS1.VVDS.VOS39R8	SYS1.**	5	ALS2	OS39R8
CLUSTER	SYS1.VVDS.VOS39R8	SYS1.**	5	ALS2	OS39R8

Total NONVSAM: 5733 CLUSTER: 288 PAGESPACE: 5 PATH: 1 USERCATALOG: 6
 ALIAS: 72 GDG: 97

SYSTEM-DSNs Rec.No 1 Found 181

PDS-Mbrs MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT
 Dupl-DSNs PDF DeleteALL GoLast Previous Quick Find delFind ClearTAGs IMPORT

EDS_MBRs	DSNAM	RACF_PROFILE	FMTAG	SYSID	APF	UACC	SMS-SC	VOLUME	TYPE / Entry Name
3482	SYS1.LINKLIB		ALS2	YES	ALTER			OS39RA	YES
4	SYS1.SVCLIB		ALS2	YES	ALTER			OS39R8	YES

Total NOT_CATALOGED 19 Total NOT_on_VOLUME 19

Datasets Rec.No 1 Found 372

Space HLQ MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT
 Space LLQ PDF DeleteALL GoLast Previous Quick Find delFind ClearTAGs IMPORT
 Space SMS Sort by DSNAM Sort by DSORG Sort by DSSER

DSNAM	RACF_PROFILE	No.Permits	DSN-LLQ	DATCL	EXT	RECL	BKLG	ALLSP	USESP	SCALL	CREDIT	EMNGD	NOSPC	NORM1	SMSM	EXEM	DDMEX
SYS1.VVDS.VOS39R8	SYS1.**	5	VOS39R8		VS	1	0	4096	1	1	1999-10-15	NO	NO	NO	NO	NO	NO
SYS1.DDIR.D	SYS1.**	5	D		U	1	0	4096	2	2	2005-07-18	NO	NO	NO	NO	NO	NO

DCOLLECT offers a huge amount of information at your fingertips!
 Only RA2FM brings light to it on ONE single screen.
 WITH the RACF PROFILE!

RA2FM_MAIN_V3R2M4 - 6

Volume Info Rec.No 1 Found 27

ByVolser MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT
 BySTGCL PDF DeleteALL GoLast Previous Quick Find delFind ClearTAGs IMPORT

VOLSR	DVNUM	DVTYP	INXEX	INXEN	USPVT	USPUB	USSTO	SHRDS	PHYST	PERCT	FRESP(MB)	ALLOCM(MB)	VLCAP(MB)	FRAGI
0839R8	0A80	3390	YES	YES	NO	NO	YES	NO	18	479	2'228	2707	489	

Total freespace(FRESP) 56'334 Total allocated(ALLOC) 43'905 Total capacity(VLCAP) 100'144
 Total freespace(avg. TRACKS) 1'081'611 Total allocated(avg. TRACKS) 841'057 Total capacity(avg. TRACKS) 1'922'762

Volume Info Grouped by STGCL (storage class) - by Tracks

Total freespace(FRESP) 56'334 Total allocated(ALLOC) 43'905 Total capacity(VLCAP) 100'144
 Total freespace(avg. TRACKS) 1'081'611 Total allocated(avg. TRACKS) 841'057 Total capacity(avg. TRACKS) 1'922'762

Total freespace(USPUB) 13'239 Total allocated(USPUB) 3'000 Total capacity(USPUB) 16'240
 Total freespace(USSTO) 43'095 Total allocated(USSTO) 40'905 Total capacity(USSTO) 83'904

Security data classification

S-D-C © Security-Data-Classification Rec.No: 1 Found: 8

Buttons: Groups, Users, Datasets, General Res., EXIT

SumLong, Delete, MAIL, ShowALL, GoFirst, Next, Find, addFind, EXEC Find, SORT

SumShort, Duplicate, PDF, Help, DeleteALL, GoLast, Previous, delFind, IMPORT

RISK value: 0 CLASS: RISCVALU

RISK name: No RISC

Related Catalog entries based on RISK value and AUTH_ID = HLQ: 355

RISK value	AUTH_ID	ACCESS	PROGRAMMER	Max. RISK of user-ID	SID
0	AAASM1	U	NONE	* removed *	220 ALS2
0	SYS1	G	NONE		ALS2

Related dataset RACF profiles based on RISK value; AUTH_ID & ACCESS

Profile	AUTH_ID	ACCESS	Programmer	Max. RISK	SID
G0	SYS1	G	NONE		
	UNIXMAP				ALS2
U0	AAASM1	U	NONE		
	UNIXMAP				ALS2

Related G.resource RACF profiles based on RISK value; AUTH_ID & ACCESS: 2

Related G.resource RACF profiles based on RISK value; AUTH_ID & Cond.ACCESS

A new way to identify groups/ user who pose the highest RISC!
 No existing profiles must be changed – that's a real achievement at practically no costs!

Security data classification

The implementation of the S-D-C© has been accomplished as follows:

First you have to define a new RACF class e.g. RISKVALU allowing a resource name of 1-2 numerics. These numerics define the base RISK values, which in turn will be used to calculate the potential RISK of a GROUP- and or USER-ID. It is recommended you only use a single digit 0-9 as this will be in most cases sufficient.

1. Perform base RDEFINES to establish the RISK values e.g.

```
RDEFINE 0 RISKVALU DATA('NO RISK')
RDEFINE 1 RISKVALU DATA('LOW RISK')
RDEFINE 2 RISKVALU DATA('MODERATE RISK')
RDEFINE 3 RISKVALU DATA('MEDIUM RISK')
RDEFINE 4 RISKVALU DATA('???? RISK')
RDEFINE 5 RISKVALU DATA('???? RISK')
RDEFINE 6 RISKVALU DATA('???? RISK')
RDEFINE 7 RISKVALU DATA('CRITICAL RISK')
RDEFINE 8 RISKVALU DATA('???? RISK')
RDEFINE 9 RISKVALU DATA('HIGH RISK')
```

2. Assign now each GROUP- or as well USER-IDs to above defined Resource name by using the PERMIT command. A PERMIT consists of an ID plus its authority. Allowing RISK values/calucation to be made of small pieces or **granules**.

```
PERMIT 0 CLASS(RISKVALU) ID(SYS1) ACCESS(NONE) '
PERMIT 0 CLASS(RISKVALU) ID(userid) ACCESS(READ) '

PERMIT 9 CLASS(RISKVALU) ID(SYS1) ACCESS(ALTER) '
PERMIT 9 CLASS(RISKVALU) ID(userid) ACCESS(ALTER) '
```

S-D-C calculates the RISK values based on **matching ID and ACCESS** of all access lists i.e. DATASETS and GENERAL RESOURCES.

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S-D-C ©
Security-Data-Classification

Rec.No **1**
 Found **17**

Groups Users Datasets General Res. EXIT

SumLong Delete MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT
SumShort Duplicate PDF DeleteALL GoLast Previous delFind IMPORT

NAME = RISK Value	CLASS_ NAME	AUTH_ID	Type	PROGRAMMER	ACCESS	SID	DSN ACCESS	DSN Cond. ACCESS	Gen.Res ACCESS	Gen.Res Cond. ACCESS	TOTAL ACCESS RECORDS	ACCESS RISK * NAME
Note: the RISK calculation is based on matching PERMIT lists												
						TOTAL LVL	TOTAL LVL				LVL RISK * NAME	
0	RISCVALU	AAASM1	U	* removed *	NONE	ALS2			1		1	
No RISC												
1	RISCVALU	AAASM1	U	* removed *	READ	ALS2						low Risk
2	RISCVALU	AAASM1	U	* removed *	UPDATE	ALS2						moderate Risk
3	RISCVALU	AAASM1	U	* removed *	CONTROL	ALS2						medium Risk
3	RISCVALU	AAASM1	U	* removed *	EXECUTE	ALS2						medium Risk
4	RISCVALU	AAASM1	U	* removed *	ALTER	ALS2	2		53		55	220 Critical
Total					Sum "RISK Value"		13				56	220
AAASM1		MAX. RISK Value based on ACCESS & LVL				220	with InDirect Max. RISK		220			0
1	RISCVALU	AAAXVJ	U	* removed *	READ	ALS2	3		91		94	94 low Risk
4	RISCVALU	AAAXVJ	U	* removed *	ALTER	ALS2			1		1	4 Critical
Total					Sum "RISK Value"		5				95	98
AAAXVJ		MAX. RISK Value based on ACCESS & LVL				98	with InDirect Max. RISK		98			0

You could be surprised on who poses the highest RISC due to e.g. CONNECTS, access attributes etc.

RA2FM.RISC0505.GRACC



STIG



SECURITY TECHNICAL IMPLEMENTATION GUIDE

Managed Rules

EXIT

ExportALL

My installation defined RACF access rules

Total BAD rules 180

Groups	
Authorized User Groups	33

Define your groups

Datasets	
Datasets	429

Access	91
Cond. Access	19

Define your profiles

General Resources	
General Resources	3250

Access	11
Cond. Access	40
Star... ASKs	546

Define your profiles

SSRAUDIT access recommendations / guide lines

Authorized User Groups	29
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Datasets	424
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General Resources	3246
-------------------	------

ESA - z/OS system related datasets and members

SYSTEM Datasets LPA, LNK, APF...	181
----------------------------------	-----

ICF Catalogs	6543
--------------	------

Parmlib - IKJTSO..	250
--------------------	-----

Parmlib - SCHED/PPT	80
---------------------	----

Parmlib - IEFSSN..	33
--------------------	----

Parmlib - IEASVC..	256
--------------------	-----

ASIS provided by STIG as recommendations



<http://web.nvd.nist.gov/view/ncpl/repository/>

National Checklist Program Repository

The National Checklist Program (NCP), defined by the [NIST SP 800-70 Rev. 2](#), is the U.S. government repository of publicly available security checklists (or benchmarks) that provide detailed low level guidance on setting the security configuration of operating systems and applications.

STIG sample dataset rules

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Rec.No 1
Found 84
Bad rules 84

My Dataset access rules

EXIT

Add Duplicate MAIL ShowALL GoFirst Next Find addFind EXEC Find SORT IMPORT
Delete Cycle-View PDF HELP GoLast Previous Quick Find delFind Failures EXPORT
DeleteALL List-View

ON OFF

Current RULE

STIG-ID ACP00010

NAME SYS1.** 7 HLQ SYS1
VOL
AUTH_ID SYS1 4
ACCESS ALTER 5
SID ALS2 4
ATYPE G Catalog_entries: 348 Creation date: Modification date:

SSRAUDIT "my dataset rules"

STIG ID	Max Access	Group	FMTAG
ACP00010	PARMRPT	READ	SYS1
ACP00010	PARMRPT	READ	SYS1
ACP00080	NUCLRPT	ALTER	SYS1
ACP00080	PARMRPT	NONE	SYS1
ACP00130	CATMRPT		

ON OFF

Current RACF PERMIT

NAME UACC READ OWNER_ID OWNS1002 WARNING NO
VOL
AUTH_ID
ACCESS
SID
ATYPE -
INSTALL_DATA * removed *

75 Browse

Define your RULE!

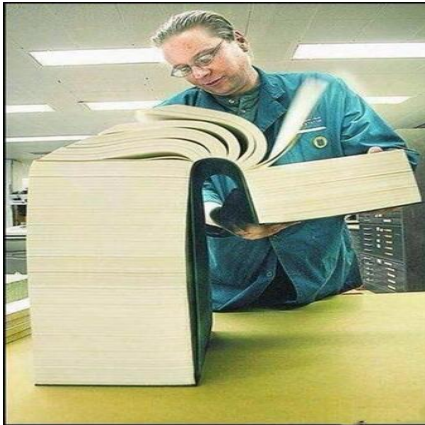
If a match it will show the IRRDBU00 entry!

Summary

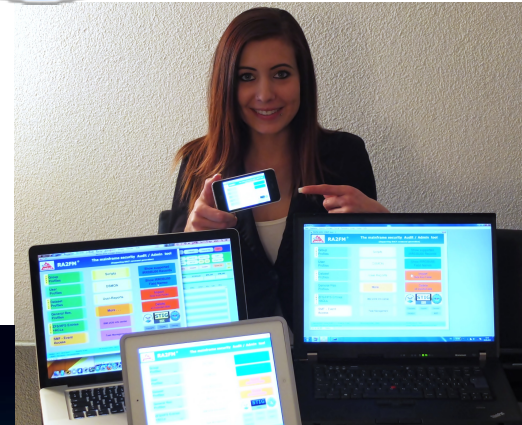
- **RA2FM is the most SOPHISTICATED ADD-ON and not a replacement of some tools as it is a STAND-ALONE application for PCs/tablets (Windows&Apple) to increase productivity. It gives you the flexibility you cannot achieve on a mainframe!**
- **A new approach** to deal with RACF and associated data e.g. HSM, RMM, Catalogs, STIG, Security data classification by using other technology
- A tool that does not require any DB2, SQL, REXX, EXCEL, ACCESS etc. skills
- Has lots of ready to use scripts
- **All RACF information on ONE single screen (all segments!)**
- **Drill up and down; left and right functions**
- Multiple windows e.g. to compare side by side data
- Works on PCs, tablets, iPhones (Windows, iOS, OSX, Servers)
- EASY to use for EVERYBODY
- Increase productivity – save labor intensive costs
- *More FUN than working with ISPF or paper reports . . .*
- **For PC/MAC - a 21-29 inch (incl. ultra wide) monitor is highly recommended**



Questions?



This way
or
The Swiss waySM



Suggestions welcome



We are open to any suggestions. Since RA2FM is THE most advanced relational database system covering RACF security, whereby all relevant fields are related to each other, it is easy to create new layouts, reports and scripts to cover the ever growing needs for almost every user. You won't find anything like it!