

z/OS



Security Server RACF Command Syntax Summary

z/OS



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Note

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 51.

Fourth Edition, September 2002

This is a major revision of SA22-7688-02.

This edition applies to Version 1 Release 4 of z/OS (5694-A01), Version 1 Release 4 of z/OS.e (5655-G52) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

About this document	v
To request copies of IBM publications	v
Summary of changes	vii
Chapter 1. Keys to syntax descriptions	1
Entering RACF commands	1
Entering RACF operator commands	1
Syntax of variables	2
Key to syntax diagrams	2
Chapter 2. RACF command syntax diagrams	5
ADDGROUP (Add Group Profile)	6
ADDSD (Add Data Set Profile)	7
ADDUSER (Add User Profile)	8
ALTDSD (Alter Data Set Profile)	11
ALTGROUP (Alter Group Profile)	12
ALTUSER (Alter User Profile)	13
CONNECT (Connect User to Group)	17
DELDSD (Delete Data Set Profile)	18
DELGROUP (Delete Group Profile)	19
DELUSER (Delete User Profile)	20
DISPLAY (Display Signed-On-From List)	21
HELP (Obtain RACF Help)	22
LISTDSD (List Data Set Profile)	23
LISTGRP (List Group Profile)	24
LISTUSER (List User Profile)	25
PASSWORD (Specify User Password)	26
PERMIT (Maintain Resource Access Lists)	27
RACDCERT (RACF Digital Certificate)	28
RACLINK (Administer RRSF User ID Associations)	30
RALTER (Alter General Resource Profile)	31
RDEFINE (Define General Resource Profile)	33
RDELETE (Delete General Resource Profile)	35
REMOVE (Remove Users from a Group)	36
RESTART (Restart RRSF functions)	37
RLIST (List General Resource Profile)	38
RVARY (Change Status of RACF Data Base)	39
SEARCH (Search RACF Data Base)	40
SET	41
SETROPTS (Set RACF Options)	43
SIGNOFF (Sign Off Sessions)	45
STOP (Shutdown RRSF)	46
TARGET (Define RRSF Nodes)	47
Appendix. Accessibility	49
Using assistive technologies	49
Keyboard navigation of the user interface	49
Notices	51
Trademarks	52

About this document

This document contains information about Security Server for z/OS and z/OS.e, which consists of these components:

- Resource Access Control Facility (RACF)
- DCE Security Server
- z/OS Firewall Technologies
- Lightweight Directory Access Protocol (LDAP) Server, which includes client and server function
- Open Cryptographic Enhanced Plug-ins
- Security Server Network Authentication Service
- PKI Services

For information about the other components, see the publications related to those components.

This document lists the syntax of the RACF[®] commands that are documented in the *z/OS Security Server RACF Command Language Reference*. It is designed to help RACF-defined users who are responsible for creating and maintaining RACF profiles.

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Summary of changes

Summary of changes for SA22-7688-03 z/OS Version 1 Release 4

This document contains information previously presented in *z/OS SecureWay Security Server RACF Command Syntax Summary*, SA22-7688-02, which supports z/OS Version 1 Release 3.

New information

- Information has been added to indicate this document supports z/OS.e.
- A new PCICC sub-operand has been added to the GENCERT operand in the RACDCERT command.
- A new EIM operand has been added to the ADDUSER, ALTUSER, LISTUSER, RALTER, RDEFINE, RLIST and SETROPTS commands.

This document includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

Starting with z/OS V1R2, you may notice changes in the style and structure of some content in this document—for example, headings that use uppercase for the first letter of initial words only, and procedures that have a different look and format. The changes are ongoing improvements to the consistency and retrievability of information in our documents.

Summary of changes for SA22-7688-02 z/OS Version 1 Release 3

This document contains information previously presented in *z/OS SecureWay Security Server RACF Command Syntax Summary*, SA22-7688-01, which supports z/OS Version 1 Release 2.

New information

- The new PROXY keyword in support of Policy Director is now provided for the ADDUSER, ALTUSER, LISTUSER, RALTER, RDEFINE and RLIST commands.
- The SET command now supports the new PDCALLABLE keyword for the TRACE operand in support of IBM Policy Director.

Changed information

- The RDELETE command definition of *profile-name* has been enhanced regarding profiles in the CACHECLS class in support of IBM Policy Director. See *z/OS Security Server RACF Command Language Reference* for more information

This document includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations are indicated by a vertical line to the left of the change.

Summary of changes for SA22-7688-01 z/OS Version 1 Release 2

This document contains information previously presented in *z/OS SecureWay Security Server RACF Command Syntax Summary*, SA22-7688-00, which supports z/OS Version 1 Release 1.

New information

- The ADDUSER command supports the following for the keyword KERB:
 - ENCRYPT and the following subkeywords:
 - DES | NODES
 - DES3 | NODES3
 - DESD | NODESD
- The ADDGROUP command supports the following keywords:
 - UNIVERSAL
- The ALTUSER command supports the following for the keyword KERB:
 - ENCRYPT and the following subkeywords:
 - DES | NODES
 - DES3 | NODES3
 - DESD | NODESD
 - NOENCRYPT
- The RALTER command supports the following for the keyword KERB:
 - ENCRYPT and the following subkeywords:
 - DES | NODES
 - DES3 | NODES3
 - DESD | NODESD
 - NOENCRYPT
- The RDEFINE command supports the following for the keyword KERB:
 - ENCRYPT and the following subkeywords:
 - DES | NODES
 - DES3 | NODES3
 - DESD | NODESD
- The SET command supports the following new keywords for the TRACE operand:
 - [ASID(*asid* ... |*) | NOASID | ALLASIDS]
 - [CALLABLE(ALL | NONE | TYPE(*type* ...)) | NOCALLABLE]
 - [DATABASE([ALL | NONE] [ALTER | NOALTER] [ALTERI | NOALTERI] [READ | NOREAD]) | NODATABASE]
 - [JOBNAME(*jobname* ... |*) | NOJOBNAME | ALLJOBNAMES]
 - [RACROUTE(ALL | NONE | TYPE(*type* ...)) | NORACROUTE]
- The SETROPTS command supports the following new keyword:
 - KERBLVL(0 | 1)

This document contains terminology, maintenance, and editorial changes, including changes to improve consistency and retrievability.

Chapter 1. Keys to syntax descriptions

This chapter describes how RACF commands should be entered, what the syntax of certain RACF variables should be, and how to read the syntax diagrams in this booklet.

Entering RACF commands

The syntax of RACF commands on MVS™ is the same as the syntax of TSO/E commands. For example, one or more blanks or commas are valid delimiters for use between operands.

The TSO/E parse routines allow you to abbreviate an operand on a TSO/E command to the least number of characters that uniquely identify the operand. To avoid conflicts in abbreviations, it is a good practice to fully spell out all operands on commands that are hard-coded (as in programs and CLISTs, for example).

If you are sharing your RACF database with a VM system, you can administer VM classes from the MVS system. Detailed information about working with VM classes can be found in the publications provided for RACF 1.10. For information about these publications, see the preface in *z/OS Security Server RACF Command Language Reference*.

Entering RACF operator commands

1. To use the RACF operator commands, the RACF subsystem must be active on your system. If the RACF subsystem has not been started, contact the system programmer.
2. A RACF operator command must contain the RACF subsystem prefix. A command such as the DISPLAY command is entered on the command line as follows:

```
#DISPLAY xxxx
```

where:

= subsystem prefix. The subsystem prefix specifies that the RACF subsystem is the processing environment of the command. The subsystem prefix can be either the 1-to-8-character installation-defined prefix for RACF or, if no prefix has been defined, the RACF subsystem name followed by a blank. If the command prefix was registered with CPF, you can use the MVS command D OPDATA to display it or you can contact your RACF security administrator.

If no subsystem prefix has been defined and the subsystem name is rac1, enter the same command as follows:

```
rac1 DISPLAY xxxx
```

xxxx = DISPLAY operand

3. Use commas to separate operands. They should not appear before the first operand or after the last operand.

For example, a DISPLAY command with two operands would be entered as follows:

```
#DISPLAY xxxx,yyyy
```

4. Operands may be separated by blanks. This is not encouraged, however, since future releases may not allow this.

- The order in which you specify the operands on the command line does not affect the command.

For example:

```
#DISPLAY xxxx,yyyy
```

and

```
#DISPLAY yyyy,xxxx
```

will give the same result.

- RACF commands entered as RACF operator commands must meet the MVS restrictions on command length and operand content.

Syntax of variables

The syntax for all occurrences of the *userid*, *group-name*, *password*, *class-name*, *profile-name*, *terminal-id*, and *volume-serial* variables in this booklet is:

Variable	Definition
userid	1-8 alphanumeric characters. The user ID can consist entirely of numbers and need not begin with any particular character. The user IDs of TSO/E users who are defined to RACF cannot exceed 7 characters and must begin with an alphabetic, #, \$, or @ character.
group-name	1-8 alphanumeric characters beginning with an alphabetic, #, \$, or @ character.
password	1-8 alphanumeric characters. Each installation can define its own password syntax rules.
class-name	Valid class names are USER, GROUP, DATASET, and those classes defined in the class descriptor table (CDT). The IBM-supplied entries in the class descriptor table are listed in <i>z/OS Security Server RACF Command Language Reference</i> .
profile-name	Either a discrete name or a generic name, as described in <i>z/OS Security Server RACF Command Language Reference</i> .
terminal-id	1-8 alphanumeric characters.
volume-serial	1-6 alphanumeric characters.

Key to syntax diagrams

Following is a key to the format of the syntax diagrams.

- UPPERCASE LETTERS or WORDS must be coded as they appear in the syntax diagrams, but do not have to be uppercase.
- Lowercase letters or words represent variables for which you must supply a value.
- Parentheses () must be entered exactly as they appear in the syntax diagram.
- An ellipsis ... (three consecutive periods) indicates that you can enter the preceding item more than once.
- A single item in brackets [] indicates that the enclosed item is optional. Do not specify the brackets in your command.

- Stacked items in brackets [] indicate that the enclosed items are optional. You can choose one or none. Do not specify the brackets in your command.
- Stacked items in braces { } indicate that the enclosed items are alternatives. You must specify one of the items. Do not specify the braces in your command.

Note: When you select a bracket that contains braces, you must specify one of the alternatives enclosed within the braces.

- Items separated by a vertical bar | indicate that you may specify only one of the items. Do not specify the vertical bar in your command.
- An underlined operand indicates the default value when no alternate value is specified.
- **BOLDFACE** or **boldface** indicates information that must be given for a command.
- Single quotes ' ' indicate that information must be enclosed in single quotes.

Chapter 2. RACF command syntax diagrams

This topic describes the RACF commands. Each description consists of a short description of the command and the command syntax. The commands are presented in alphabetical order.

ADDGROUP

ADDGROUP (Add Group Profile)

Purpose

Define a new group to RACF.

Syntax:

```
[subsystem-prefix]{ADDGROUP | AG}
    (group-name ...)
    [ AT([node].userid ...) | ONLYAT([node].userid ...) ]
    [ DATA('installation-defined-data') ]
    [ DFP(
        [ DATAAPPL(application-name) ]
        [ DATACLAS(data-class-name) ]
        [ MGMTCLAS(management-class-name) ]
        [ STORCLAS(storage-class-name) ] ) ]
    [ MODEL(dsname) ]
    [ OMVS [ (
        AUTOGID | GID(group-identifier) [ SHARED ] ) ] ]
    [ OVM [ ( GID(group-identifier) ) ] ]
    [ OWNER(userid or group-name) ]
    [ SUPGROUP(group-name) ]
    [ TERMUACC | NOTERMUACC ]
    [ TME(
        [ ROLES(profile-name ...) ] ) ]
    [UNIVERSAL]
```


ADDSD (Add Data Set Profile)

Purpose

Add RACF protection to data sets with either discrete or generic profiles.

Syntax:

```
[subsystem-prefix]{ADDSD | AD}
    (profile-name-1 [/password] ...)
    [ ADDCATEGORY(category-name ...) ]
    [ AT([node].userid ...) | ONLYAT([node].userid ...) ]
    [ AUDIT( access-attempt [(audit-access-level)] ...) ]
    [ DATA('installation-defined-data') ]
    [ DFP(RESOWNER(userid or group-name) INORESOWNER) ]
    [ ERASE ]
    [ FCLASS(profile-name-2-class) ]
    [ FGENERIC ]
    [ FILESEQ(number) ]
    [ FROM(profile-name-2) ]
    [ FVOLUME(profile-name-2-serial) ]
    [ {GENERIC | MODEL | TAPE} ]
    [ LEVEL(nn) ]
    [ {NOSET | SET | SETONLY} ]
    [ NOTIFY [(userid) ] ]
    [ OWNER(userid or group-name) ]
    [ RETPD(nnnnn) ]
    [ SECLABEL(security-label) ]
    [ SECLEVEL(security-level) ]
    [ TME(
        [ ROLES(role-access-specification ...) ]
        ) ]
    [ UACC(access-authority) ]
    [ UNIT(type) ]
    [ VOLUME(volume-serial ...) ]
    [ WARNING ]
```

ADDUSER

ADDUSER (Add User Profile)

Purpose

Define a new user to RACF and establish the user's relationship to an existing RACF-defined group.

Syntax:

```
[subsystem-prefix]{ADDUSER | AU}
    (userid ...)
    [ ADDCATEGORY(category-name ...) ]
    [ ADSP | NOADSP ]
    [ AT([node].userid ...) | ONLYAT([node].userid ...) ]
    [ AUDITOR | NOAUDITOR ]
    [ AUTHORITY(group-authority) ]
    [ CICS(
        [ OPCLASS(operator-class ...) ]
        [ OPIDENT(operator-id) ]
        [ OPPRTY(operator-priority) ]
        [ TIMEOUT(timeout-value) ]
        [ XRFSOFF( FORCE | NOFORCE ) ]
    ) ]
    [ CLAUTH(class-name ...) | NOCLAUTH ]
    [ DATA('installation-defined-data') ]
    [ DCE(
        [ AUTOLOGIN(YESINO) ]
        [ DCENAME(user-principal-name) ]
        [ HOMECCELL(dce-cell-name) ]
        [ HOMEUUID(home-cell-universal-unique-identifier) ]
        [ UUID(universal-unique-identifier) ]
    ) ]
    [ DFLTGRP(group-name) ]
    [ DFP(
        [ DATAAPPL(application-name) ]
        [ DATACLAS(data-class-name) ]
        [ MGMTCLAS(management-class-name) ]
        [ STORCLAS(storage-class-name) ]
    ) ]
    [ EIM ( LDAPPROF ( ldapbind_profile ) ) ]
    [ GRPACC | NOGRPACC ]
    [ KERB (
        [ ENCRYPT (
            [ DES | NODES ]
            [ DES3 | NODES3 ]
            [ DESD | NODESD ]
        ) ]
        [ KERBNAME(kerberos-principal-name) ]
        [ MAXTKLFE(max-ticket-life) ]
    ) ]
    [ LANGUAGE(
        [ PRIMARY(language) ]
        [ SECONDARY(language) ]
    ) ]
    [ LNOTES(
        [ SNAME(short-name) ]
    ) ]
```

```

[ MODEL(dsname) ]
[ NAME(user-name) ]
[ NDS(
  [ UNAME(user-name) ]
  ) ]
[ NETVIEW(
  [ CONSNAME(console-name) ]
  [ CTL(GENERAL | GLOBAL | SPECIFIC) ]
  [ DOMAINS(domain-name ...) ]
  [ IC('command | command-list') ]
  [ MSGRECVR(NO | YES) ]
  [ NGMFADMN(NO | YES) ]
  [ NGMFVSPN(view-span) ]
  [ OPCLASS(class ...) ]
  ) ]
[ OIDCARD | NOOIDCARD ]
[OMVS [ (
  [ ASSIZEMAX(address-space-size) ]
  [ AUTOUID | UID( user-identifier ) [ SHARED ] ]
  [ CPUTIMEMAX(cpu-time) ]
  [ FILEPROCMAX(files-per-process) ]
  [ HOME(initial-directory-name) ]
  [ MMAPAREAMAX(memory-map-size) ]
  [ PROCUSERMAX(processes-per-UID) ]
  [ PROGRAM(program-name) ]
  [ THREADSMAX(threads-per-process) ]
  ) ] ]
[ OPERATIONS | NOOPERATIONS ]
[ OPERPARM( [ ALTGRP(alternate-console-group) ]
  [ AUTH(operator-authority) ]
  [ AUTO( YES | NO ) ]
  [ CMDSYS(system-name) ]
  [ DOM( NORMAL | ALL | NONE ) ]
  [ KEY(searching-key) ]
  [ LEVEL(message-level) ]
  [ LOGCMDRESP( SYSTEM | NO ) ]
  [ MFORM(message-format) ]
  [ MIGID( YES | NO ) ]
  [ MONITOR(event) ]
  [ MSCOPE( system-names | * | *ALL ) ]
  [ ROUTCODE( ALL | NONE | routing-codes ) ]
  [ STORAGE(amount) ]
  [ UD( YES | NO ) ]
  ) ]
[OVM(
  [ FSROOT(file-system-root) ]
  [ HOME(initial-directory-name) ]
  [ PROGRAM(program-name) ]
  [ UID(user-identifier) ]
  ) ]
[ OWNER(userid or group-name) ]
[ PASSWORD(password) | NOPASSWORD ]
[PROXY[[
  [ LDAPHOST(ldap_url) ]
  [ BINDDN(bind_distinguished_name) ]
  [ BINDPW(bind_password) ] ) ] ]
[ RESTRICTED | NORESTRICTED ]
[ SECLABEL(seclabel-name) ]
[ SECLEVEL(secllevel-name) ]

```

ADDUSER

```
[ SPECIAL | NOSPECIAL ]
[TSO(
  [ ACCTNUM(account-number) ]
  [ COMMAND(command-issued-at-logon) ]
  [ DEST(destination-id) ]
  [ HOLDCLASS(hold-class) ]
  [ JOBCLASS(job-class) ]
  [ MAXSIZE(maximum-region-size) ]
  [ MSGCLASS(message-class) ]
  [ PROC(logon-procedure-name) ]
  [ SECLABEL(security-label) ]
  [ SIZE(default-region-size) ]
  [ SYSOUTCLASS(sysout-class) ]
  [ UNIT(unit-name) ]
  [ USERDATA(user-data) ]
) ]
[ UACC(access-authority) ]
[ WHEN( [DAYS(day-info)] [TIME(time-info)] ) ]
[ WORKATTR(
  [ WAACNT(account-number) ]
  [ WAADDR1(address-line-1) ]
  [ WAADDR2(address-line-2) ]
  [ WAADDR3(address-line-3) ]
  [ WAADDR4(address-line-4) ]
  [ WABLDG(building) ]
  [ WADEPT(department) ]
  [ WANAME(name) ]
  [ WAROOM(room) ]
) ]
```

ALTDSD (Alter Data Set Profile)

Purpose

Modify an existing discrete or generic data set profile or add, modify, or remove RACF protection for a single volume of a multivolume tape data set or a single volume of a multivolume, non-VSAM DASD data set.

Syntax:

```
[subsystem-prefix]{ALTDSD | ALD}

    (profile-name [/password] ...)
    [ ADDCATEGORY(category-name ...)
      | DELCATEGORY [{category-name ...! *} ] ]
    [ ADDVOL(volume-serial)
      | DELVOL(volume-serial)
      | ALTVOL(old-volume-serial new-volume-serial)]
    [ AT([node].userid ...) | ONLYAT([node].userid ...) ]
    [ AUDIT( access-attempt [(audit-access-level)] ...) ]
    [ DATA('installation-defined-data') | NODATA ]
    [ DFP(RESOWNER(userid or group-name))

    INORESOWNER)

    | NODFP ]
    [ ERASE | NOERASE ]
    [ GENERIC | NOSET | SET ]
    [ GLOBALAUDIT( access-attempt [(audit-access-level)] ...) ]
    [ LEVEL(nn) ]
    [ NOTIFY(userid) | NONOTIFY ]
    [ OWNER(userid or group-name) ]
    [ RETPD(nnnnn) ]
    [ SECLABEL(seclabel-name) | NOSECLABEL ]
    [ SECLEVEL(seclabel-name) | NOSECLEVEL ]
    [ TME(
      [ ROLES(role-access-specification ...)
        | ADDROLES(role-access-specification ...)
        | DELROLES(role-access-specification ...)
        | NOROLES ]
      )
    | NOTME ]
    [ UACC(access-authority) ]
    [ UNIT(type) ]
    [ VOLUME(volume-serial) ]
    [ WARNING | NOWARNING ]
```

ALTGROUP

ALTGROUP (Alter Group Profile)

Purpose

Change information in a group profile.

Syntax:

```
[subsystem-prefix]{ALTGROUP | ALG}
    (group-name ...)
    [ AT([node].userid ...) | ONLYAT([node].userid ...) ]
    [ DATA('installation-defined-data') | NODATA ]
    [ DFP(
        [ DATAAPPL(application-name) | NODATAAPPL ]
        [ DATACLAS(data-class-name) | NODATACLAS ]
        [ MGMTCLAS(management-class-name)
          | NOMGMTCLAS ]
        [ STORCLAS(storage-class-name) | NOSTORCLAS ]
      )
    | NODFP ]
    [ MODEL(dsname) | NOMODEL ]
    [ OMVS(
        [ AUTOGID
          | GID ( group-identifier ) [ SHARED ]
          | NOGID ] )
    | NOOMVS ]
    [ OVM(
        [ GID(group-identifier) | NOGID ]
      )
    | NOOVM ]
    [ OWNER(userid or group-name) ]
    [ SUPGROUP(group-name) ]
    [ TERMUACC | NOTERMUACC ]
    [ TME(
        [ ROLES(profile-name ...)
          | ADDROLES(profile-name ...)
          | DELROLES(profile-name ...)
          | NOROLES ]
      )
    | NOTME ]
```

ALTUSER (Alter User Profile)

Purpose

Change the information in a user's profile, including the user's system-wide attributes and access authorities.

Syntax:

```
[subsystem-prefix]{ALTUSER | ALU}
    (userid ...)
    [ ADDCATEGORY(category-name ...)
    | DELCATEGORY [ (category-name ...!*) ]
    [ ADSP | NOADSP ]
    [ AT([node].userid ...)
    | ONLYAT([node].userid ...) ]
    [ AUDITOR | NOAUDITOR ]
    [ AUTHORITY(group-authority) ]
    [ CICS(
        [ OPCLASS(operator-class ...)
          | ADDOPCLASS(operator-class ...)
          | DELOPCLASS(operator-class ...)
        | NOOPCLASS ]
        [ OPIDENT(operator-id) | NOOPIDENT ]
        [ OPPRTY(operator-priority) | NOOPRTY ]
        [ TIMEOUT(timeout-value) | NOTIMEOUT ]
        [ XRFSSOFF(FORCE | NOFORCE) | NOXRFSOFF ]
        )
    | NOCICS ]
    [ {CLAUTH | NOCLAUTH} (class-name ...) ]
    [ DATA('installation-defined-data') | NODATA ]
    [ DCE( [ AUTOLOGIN(YES|NO) | NOAUTOLOGIN ]
        [ DCENAME(user-principal-name) | NODCENAME ]
        [ HOMECCELL(dce-cell-name) | NOHOMECCELL ]
        [ HOMEUID(home-cell-universal-unique-identifier)
        | NOHOMEUID ]
        [ UID(universal-unique-identifier) | NOUID ]
        )
    | NODCE ]
    [ DFLTGRP(group-name) ]
    [ DFP(
        [ DATAAPPL(application-name) | NODATAAPPL ]
        [ DATACLAS(data-class-name) | NODATACLAS ]
        [ MGMTCLAS(management-class-name)
        | NOMGMTCLAS ]
        [ STORCLAS(storage-class-name) | NOSTORCLAS ]
        )
    | NODFP ]
    [ EIM (LDAPPROF(ldapbind_profile) | NOLDAPPROF)
    | INOEIM ]
    [ EXPIRED | NOEXPIRED ]
    [ GROUP(group-name) ]
    [ GRPACC | NOGRPACC ]
```

ALTUSER

```
[ KERB (
  [ ENCRYPT (
    [ DES | NODES ]
    [ DES3 | NODES3 ]
    [ DESD | NODESD ] )
  | NOENCRYPT ]
  [ KERBNAME(kerberos-principal-name) | NOKERBNAME ]
  [ MAXTKLFE(max-ticket-life) | NOMAXTKLFE ] )
| NOKERB ]
[ LANGUAGE(
  [ PRIMARY(language) | NOPRIMARY ]
  [ SECONDARY(language) | NOSECONDARY ]
)
| NOLANGUAGE ]
[ LNOTES( [ SNAME(short-name) | NOSNAME ] )
| NOLNOTES ]
[ MODEL(dsname) | NOMODEL ]
[ NAME(user-name) ]
[ NDS( [ UNAME(user-name) | NOUNAME ] )
| NONDS ]
[ NETVIEW(
  [ CONSNAME(console-name | NOCONSNAME ]
  [ CTL(GENERALIGLOBALISPECIFIC) | NOCTL ]
  [ DOMAINS(domain-name ...)
  | ADDDOMAINS(domain-name...)
  | DELDOMAINS(domain-name...)
  | NODOMAINS ]
  [ IC(command | command-list)
  | NOIC ]
  [ MSGRECVR(NOIYES) | NOMSGRECVR ]
  [ NGMFADMN(NOIYES) | NONGMFADMN ]
  [ NGMFVSPN(view-span) | NONGMFVSPN ]
  [ OPCLASS(class ...)
  | ADDOPCLASS(class ...)
  | DELOPCLASS(class ...)
  | NOOPCLASS ] )
| NONETVIEW ]
[ OIDCARD | NOOIDCARD ]
[ OMVS(
  [ ASSIZEMAX(address-space-size) | NOASSIZEMAX ]
  [ AUTOUID | UID(user-identifier) [ SHARED ] | NOUID ]
  [ CPUTIMEMAX(cpu-time) | NOCPUTIMEMAX ]
  [ FILEPROCMAx(files-per-process)
  | NOFILEPROCMAx ]
  [ HOME(directory-pathname) | NOHOME ]
  [ MMAPAREAMAX(memory-map-size)
  | NOMMAPAREAMAX ]
  [ PROCUSERMAX(processes-per-UID)
  | NOPROCUSERMAX ]
  [ PROGRAM(program-name) | NOPROGRAM ]
  [ THREADSMAX(threads-per-process)
  | NOTHREADSMAX ] )
| NOOMVS ]
[ OPERATIONS | NOOPERATIONS ]
```



```

[ OPERPARM(
  [ ALTGRP(alternate-console-group) | NOALTGRP ]
  [ AUTH(operator-authority) | NOAUTH ]
  [ AUTO( YES | NO ) | NOAUTO ]
  [ CMDSYS(system-name) | NOCMDSYS ]
  [ DOM( NORMAL | ALL | NONE ) | NODOM ]
  [ KEY(searching-key) | NOKEY ]
  [ LEVEL(message-level) | NOLEVEL ]
  [ LOGCMDRESP( SYSTEM | NO ) | NOLOGCMDRESP ]
  [ MFORM(message-format) | NOMFORM ]
  [ MIGID( YES | NO ) | NOMIGID ]
  [ MONITOR(event) | NOMONITOR ]
  [ MSCOPE( system-name... | * | *ALL )
  | ADDMSCOPE(system-name...)
  | DELMSCOPE(system-name...) | NOMSCOPE ]
  [ ROUTCODE( ALL | NONE | routing-codes )
  | NOROUTCODE ]
  [ STORAGE(amount) | NOSTORAGE ]
  [ UD( YES | NO ) | NOUD ]
)
| NOOPERPARM ]
[ OVM( [ FSROOT(file-system-root) | NOFSROOT ]
  [ HOME(initial-directory-name) | NOHOME ]
  [ PROGRAM(program-name) | NOPROGRAM ]
  [ UID (user-identifier) | NOUID ] )
| NOOVM ]
[ OWNER(userid or group-name) ]
[ PASSWORD (password) | NOPASSWORD ]
[PROXY [ (
  [LDAPHOST (ldap_url) | NOLDAPHOST ]
  [ BINDDN(bind_distinguished_name) | NOBINDDN ]
  [ BINDPW(bind_password) | NOBINDPW ]
  | NOPROXY]
[ RESTRICTED | NORESTRICTED ]
[ RESUME [(date)] ]
[ REVOKE [(date)] ]
[ SECLABEL(seclabel-name) | NOSECLABEL ]
[ SECLEVEL(seclabel-name) | NOSECLEVEL ]
[ SPECIAL | NOSPECIAL ]
[ TSO (
  [ ACCTNUM(account-number) | NOACCTNUM ]
  [ COMMAND(cmd-issued-at-logon) | NOCOMMAND ]
  [ DEST(destination-id) | NODEST ]
  [ HOLDCLASS(hold-class) | NOHOLDCLASS ]
  [ JOBCLASS(job-class) | NOJOBCLASS ]
  [ MAXSIZE(maximum-region-size) | NOMAXSIZE ]
  [ MSGCLASS(message-class) | NOMSGCLASS ]
  [ PROC(logon-procedure-name) | NOPROC ]
  [ SECLABEL(seclabel-name) | NOSECLABEL ]
  [ SIZE(default-region-size) | NOSIZE ]
  [ SYSOUTCLASS(sysout-class) | NOSYSOUTCLASS ]
  [ UNIT(unit-name) | NOUNIT ]
  [ USERDATA(user-data) | NOUSERDATA ] )
| NOTSO ]
[ UACC(access-authority) ]
[ UAUDIT | NOAUDIT ]
[ WHEN( [DAYS(day-info)] [TIME(time-info)] ) ]

```

ALTUSER

```
[ WORKATTR(  
  [ WAACCNT(account-number) | NOWAACCNT ]  
  [ WAADDR1(address-line-1) | NOWAADDR1 ]  
  [ WAADDR2(address-line-2) | NOWAADDR2 ]  
  [ WAADDR3(address-line-3) | NOWAADDR3 ]  
  [ WAADDR4(address-line-4) | NOWAADDR4 ]  
  [ WABLDG(building) | NOWABLDG ]  
  [ WADEPT(department) | NOWADEPT ]  
  [ WANAME(name) | NOWANAME ]  
  [ WAROOM(room) | NOWAROOM ] )  
| NOWORKATTR ]
```

CONNECT (Connect User to Group)

Purpose

Connect a user to a group, modify a user's connection to a group, or assign the group-related user attributes.

Syntax:

```
[subsystem-prefix]{CONNECT | CO}
    (userid ...)
    [ ADSP | NOADSP ]
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]
    [ AUDITOR | NOAUDITOR ]
    [ AUTHORITY(group-authority) ]
    [ GROUP(group-name) ]
    [ GRPACC | NOGRPACC ]
    [ OPERATIONS | NOOPERATIONS ]
    [ OWNER(userid or group-name) ]
    [ RESUME [(date)] ]
    [ REVOKE [(date)] ]
    [ SPECIAL | NOSPECIAL ]
    [ UACC [(access-authority)] ]
```

DELDSD

DELDSD (Delete Data Set Profile)

Purpose

Remove RACF protection from tape or DASD data sets that are protected by either discrete or generic profiles.

Syntax:

```
[subsystem-prefix]{DELDSD | DD}
```

```
    (profile-name ...)
```

```
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]
```

```
    [ GENERIC | NOSET | SET ]
```

```
    [ VOLUME(volume-serial) ]
```

Note: If you specify a generic profile name, RACF ignores the VOLUME, SET, and NOSET operands.

DELGROUP (Delete Group Profile)

Purpose

Delete a group and its relationship to its superior group from RACF.

Syntax:

```
[subsystem-prefix]{DELGROUP | DG}  
    (group-name ...)  
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]
```

DELUSER

DELUSER (Delete User Profile)

Purpose

Delete a user from RACF. This command removes the user's profile and all user-to-group connections for the user.

Syntax:

```
[subsystem-prefix]{DELUSER | DU}
      (userid ...)
      [ AT([node].userid ...) | ONLYAT([node].userid ...)]
```

DISPLAY (Display Signed-On-From List)

Purpose

Use the DISPLAY command to display a listing of entries in the signed-on-from list maintained by RACF.

Syntax:

```
subsystem-prefix DISPLAY  
  
[SIGNON ]  
[APPL(local-luname | *)]  
[POE(partner-luname | *)]  
[USER(userid-name | *)]  
[GROUP(group-name | *)]  
[SECLABEL(security-label | *)]
```

HELP

HELP (Obtain RACF Help)

Purpose

Obtain information about the function, syntax, and operands of RACF commands that are documented in *z/OS Security Server RACF Command Language Reference*.

Syntax:

{ HELP H }	[command-name]
	[<u>ALL</u>]
	[FUNCTION]
	[OPERANDS [(operand...)]]
	[SYNTAX]

LISTDSD (List Data Set Profile)

Purpose

List information included in tape and DASD data set profiles.

Syntax:

```
[subsystem-prefix]{LISTDSD | LD}  
    [ ALL ]  
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]  
    [ AUTHUSER ]  
    [ {DATASET(profile-name ...)  
      | ID(name ...)  
      | PREFIX(char ...)} ]  
    [ DFP ]  
    [ DSNS ]  
    [ GENERIC | NOGENERIC ]  
    [ HISTORY ]  
    [ NORACF ]  
    [ STATISTICS ]  
    [ TME ]  
    [ VOLUME(volume-serial ...) ]
```

LISTGRP

LISTGRP (List Group Profile)

Purpose

List details of specific RACF group profiles.

Syntax:

```
[subsystem-prefix]{LISTGRP | LG}  
    [ {(group-name ...) | *} ]  
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]  
    [ DFP ]  
    [ NORACF ]  
    [ OMVS ]  
    [ OVM ]  
    [ TME ]
```

LISTUSER (List User Profile)

Purpose

List the details of specific RACF user profiles.

Syntax:

```
[subsystem-prefix]{LISTUSER | LU}
      [ (userid ...) | * ]
      [ AT( [ node ] .userid ...) | ONLYAT( [ node ] .userid ...) ]
      [ CICS® ]
      [ DCE ]
      [ DFP ]
      [ EIM ]
      [ KERB ]
      [ LANGUAGE ]
      [ LNOTES ]
      [ NDS ]
      [ NETVIEW ]
      [ NORACF ]
      [ OMVS ]
      [ OPERPARM ]
      [ OVM ]
      [ PROXY ]
      [ TSO ]
      [ WORKATTR ]
```

PASSWORD

PASSWORD (Specify User Password)

Purpose

Change your password, reset a user's password, or change the password interval.

Syntax:

```
[subsystem-prefix]{PASSWORD | PW}  
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]  
    [ INTERVAL(change-interval) | NOINTERVAL ]  
    [ PASSWORD(current-password new-password) ]  
    [ USER(userid ...) ]
```

PERMIT (Maintain Resource Access Lists)

Purpose

Maintain the lists of users and groups authorized to access a particular resource. RACF provides two types of access lists: standard and conditional.

Syntax:

```
[subsystem-prefix]{PERMIT | PE}
    profile-name-1
    [ ACCESS(access-authority) | DELETE ]
    [ AT( [ node ] .userid ...) | ONLYAT( [ node ] .userid ...) ]
    [ CLASS(profile-name-1-class) ]
    [ FCLASS(profile-name-2-class) ]
    [ FGENERIC ]
    [ FROM(profile-name-2) ]
    [ FVOLUME(volume-serial) ]
    [ GENERIC ]
    [ ID( {name ... |*} ) ]
    [ RESET [ (ALL | STANDARD | WHEN) ] ]
    [ VOLUME(volume-serial) ]
    [ WHEN(
        [ APPCPORT( {partner-luname ...| *} ) ]
        [ CONSOLE( {console-id ...| *} ) ]
        [ JESINPUT( {JES-input-device-name ...| *} ) ]
        [ PROGRAM( {program-name ...| *} ) ]
        [ SYSID( {system-identifier ...| *} ) ]
        [ TERMINAL( {terminal-id ...| *} ) ]
    ) ]
```

RACDCERT (RACF Digital Certificate)

Purpose

RACDCERT is used to install and maintain digital certificates in RACF. RACDCERT should be used for all maintenance of the DIGTCERT, DIGTRING, and DIGTNMAP class profiles and related USER profile fields.

Syntax:

```

RACDCERT

[ ID(userid) | MULTIID | SITE | CERTAUTH ]
[ LIST
  [ ( LABEL ( 'label-name' ) ) ]
  | [ ( SERIALNUMBER ( serial-number )
      [ ISSUERSDN( 'issuer's-dist-name' ) ] ) ] ]
| ADD( data-set-name )
  [ TRUST | NOTRUST | HIGHTRUST ]
  [ WITHLABEL ( 'label-name' ) ]
  [ PASSWORD ( 'pkcs12-password' ) ]
  [ ICSF ]
| CHECKCERT(data-set-name)
  [ PASSWORD( 'pkcs12-password' ) ]
| ALTER
  [ ( LABEL ( 'label-name' ) ) ]
  | [ ( SERIALNUMBER ( serial-number )
      [ ISSUERSDN ( 'issuer's-dist-name' ) ] ) ] ]
  [ TRUST | NOTRUST | HIGHTRUST ]
  [ NEWLABEL ( 'label-name' ) ]
| DELETE
  [ ( LABEL ( 'label-name' ) ) ]
  | [ ( SERIALNUMBER ( serial-number )
      [ ISSUERSDN ( 'issuer's-dist-name' ) ] ) ] ]
| GENCERT [ ( request-data-set-name ) ]
  [ SUBJECTSDN (
    [ CN ( 'common-name' ) ]
    [ T ( 'title' ) ]
    [ OU ( 'organizational-unit-name1'
          [ , 'organizational-unit-name2',... ] ) ] ]
    [ O ( 'organization-name' ) ]
    [ L ( 'locality' ) ]
    [ SP ( 'state-or-province' ) ]
    [ C ( 'country' ) ] ) ] ]
  [ SIZE ( key-size ) ]
  [ NOTBEFORE (
    [ DATE ( yyyy-mm-dd ) ] [ TIME ( hh:mm:ss ) ] ) ] ]
  [ NOTAFTER (
    [ DATE ( yyyy-mm-dd ) ] [ TIME ( hh:mm:ss ) ] ) ] ]
  [ WITHLABEL ( 'label-name' ) ]
  [ SIGNWITH ( [ CERTAUTH|SITE ]
              LABEL ( 'label-name' ) ) ]
  [ PCICC | ICSF ]
  [ KEYUSAGE ( [ HANDSHAKE ] [ DATAENCRYPT ]
              [ DOCSIGN ] [ CERTSIGN ] ) ]
  [ ALTNAME ( IP ( numeric-ip-address )
              DOMAIN ( 'internet-domain-name' )
              EMAIL ( 'email-address' )
              URI ( 'universal-resource-identifier' ) ) ] ]

```

```

| EXPORT ( LABEL ( 'label-name' ) )
          DSN ( output-data-set-name )
          [FORMAT ( CERTDER | CERTB64
                  | PKCS7DER | PKCS7B64
                  | PKCS12DER | PKCS12B64 ) ]
          [ PASSWORD ( 'pkcs12-password' ) ]
| GENREQ ( LABEL ( 'label-name' ) )
          DSN ( output-data-set-name )
| CONNECT ( [ ID ( userid ) | SITE | CERTAUTH ]
            LABEL ( 'label-name' )
            RING ( ring-name )
            [ DEFAULT ]
            [ USAGE ( PERSONAL | SITE | CERTAUTH ) ] )
| REMOVE ( [ ID ( userid ) | SITE | CERTAUTH ]
            LABEL ( 'label-name' )
            RING ( ring-name ) )
| ADDRING ( ring-name )
| DELRING ( ring-name )
| LISTRING [ ( ring-name ) ]
| MAP [ ( data-set-name ) ]
        [ SDNFILTER ( 'subject's-distinguished-name-filter' ) ]
        [ IDNFILTER ( 'issuer's-distinguished-name-filter' ) ]
        [ CRITERIA ( criteria-profile-name-template ) ]
        [ WITHLABEL ( 'label-name' ) ]
        [ TRUST | NOTRUST ]
| ALTMAP [ ( LABEL ( 'label-name' ) ) ]
          [ NEWCRITERIA ( criteria-profile-name-template ) ]
          [ NEWLABEL ( 'label-name' ) ]
          [ TRUST | NOTRUST ]
| DELMAP [ ( LABEL('label-name') ) ]
| LISTMAP [ ( LABEL('label-name') ) ]
[DEBUG]

```

RACLINK

RACLINK (Administer RRSF User ID Associations)

Purpose

Use the RACLINK command to administer (define, approve, delete, or list) RRSF User ID associations.

Syntax:

```
[subsystem-prefix]RACLINK  
  
    [ ID(userid1...) ]  
    [ LIST([node*].userid2*...) ]  
      | DEFINE([node].userid2[/password]...) ]  
        | [MANAGED | PEER [(NOPWSYNC |  
          PWSYNC)] ]  
      | UNDEFINE([node].userid2...) ]  
      | APPROVE([node].userid2...) ]
```


RALTER (Alter General Resource Profile)

Purpose

Alter RACF profiles for resources belonging to classes specified in the class descriptor table (CDT), change the global access checking table, change the list of security categories and levels.

Syntax:

```
[subsystem-prefix]{RALTER | RALT}

    class-name
    (profile-name ...)
    [ ADDCATEGORY(category-name ...)
    | DELCATEGORY [ ( {category-name...
    | * } ) ] ]
    [ {ADDMEM | DELMEM} (member ...) ]
    [ {ADDVOL | DELVOL} (volume-serial ...) ]
    [ APPLDATA('application-data') | NOAPPLDATA ]
    [ AT( [ node ] .userid ...) | ONLYAT( [ node ] .userid ...) ]
    [ AUDIT( access-attempt [ (audit-access-level) ] ...) ]
    [ DATA('installation-defined-data') | NODATA ]
    [ DLFDATA(
    [ RETAIN(YESINO) | NORETAIN ]
    [NOJOBNAMES
    | JOBNAMES(jobname1 ...)
    | ADDJOBNAMES(jobname1 ...)
    | DELJOBNAMES(jobname1 ...) ] )
    | NODLFDATA ]
    [ EIM(
    [DOMAINDN(eim_domain_dn) | NODOMAINDN]
    [OPTIONS (ENABLE | DISABLE) | NOOPTIONS]
    [LOCALREGISTRY(registry_name) | NOLOCALREGISTRY])
    | NOEIM ]
    [ GLOBALAUDIT(access-attempt [ (audit-access-level) ] ...) ]
    [ KERB (
    [ DEFTKTLFE(def-ticket-life) | NODEFTKTLFE ]
    [ ENCRYPT (
    [ DES | NODES ]
    [ DES3 | NODES3 ]
    [ DESD | NODESD ] )
    | NOENCRYPT ]
    [ KERBNAME(kerberos-realm-name)
    | NOKERBNAME ]
    [ MAXTKTLFE(max-ticket-life) | NOMAXTKTLFE ]
    [ MINTKTLFE(min-ticket-life) | NOMINTKTLFE ]
    [ PASSWORD(kerberos-password) | NOPASSWORD ])
    | NOKERB ]
    [ LEVEL(nn) ]
    [ NOTIFY [(userid)] | NONOTIFY ]
    [ OWNER(userid or group-name) ]
    [PROXY(
    [ LDAPHOST(ldap_url) | NOLDAPHOST ]
    [ BINDDN(bind_distinguished_name) | NOBINDDN ]
    [ BINDPW(bind_password) | NOBINDPW ])
    | NOPROXY ]
    [ SECLABEL(seclabel-name ...) | NOSECLABEL ]
```

RALTER

```
[ SECLEVEL(secl-level-name ...) | NOSECLEVEL ]
[ SESSION(
  [ CONVSEC( NONE | CONV | ALREADYV
             | PERSISTV | AVPV )
    | NOCONVSEC]
  [ INTERVAL(n) | NOINTERVAL ]
  [ LOCK | NOLOCK ]
  [ SESSKEY(session-key) | NOSESSKEY ] )
| NOSESSION ]
[ SINGLEDSN | NOSINGLEDSN ]
[ SSIGNON(
  [ KEYMASKED(key-value) |
    KEYENCRYPTED(key-value)] )
| NOSSIGNON ]
[ STDATA(
  [ USER(userid | =MEMBER) | NOUSER ]
  [ GROUP(group-name | =MEMBER) | NOGROUP ]
  [ PRIVILEGED( NO | YES) | NOPRIVILEGED ]
  [ TRACE( NO | YES) | NOTRACE ]
  [ TRUSTED( NO | YES) | NOTRUSTED ] )
| NOSTDATA ]
[ SVFMR(
  [ SCRIPTNAME(script-name)|NOSCRIPTNAME]
  [ PARMNAME(parm-name)|NOPARMNAME] )
| NOSVFMR]
[ TIMEZONE( {E | W} hh [ .mm ] ) | NOTIMEZONE ]
[ TME(
  [ CHILDREN(profile-name ...)
  | ADDCHILDREN(profile-name ...)
  | DELCHILDREN(profile-name ...)
  | NOCHILDREN ]
  [ GROUPS(group-name ...)
  | ADDGROUPS(group-name ...)
  | DELGROUPS(group-name ...)
  | NOGROUPS ]
  [ PARENT(profile-name)
  | NOPARENT ]
  [ RESOURCE(resource-access-specification ...)
  | ADDRESOURCE(resource-access-specification ...)
  | DELRESOURCE(resource-access-specification ...)
  | NORESOURCE ]
  [ ROLES(role-access-specification ...)
  | ADDROLES(role-access-specification ...)
  | DELROLES(role-access-specification ...)
  | NOROLES ] )
| NOTME ]
[ TVTOC | NOTVTOC ]
[ UACC(access authority) ]
[ WARNING | NOWARNING ]
[ WHEN( [ DAYS(day-info) ] [ TIME(time-info) ] ) ]
```

RDEFINE (Define General Resource Profile)

Purpose

Define to RACF all profiles belonging to classes specified in the class descriptor table (CDT), create entries in the global access checking table and in the lists of security categories and security levels, and define classes as profiles in the RACGLIST class for which RACF will save RACLISTed results on the RACF database.

Syntax:

```
[subsystem-prefix]{RDEFINE | RDEF}

    class-name
    (profile-name-1 ...)
    [ ADDCATEGORY(category-name ...) ]
    [ ADDMEM(member ...) ]
    [ APPLDATA('application-data') ]
    [ AT([node].userid ...) | ONLYAT([node].userid ...) ]
    [ AUDIT( access-attempt [(audit-access-level)] ...) ]
    [ DATA('installation-defined-data') ]
    [ DLFDATA(
        [ RETAIN( YES | NO ) ]
        [ JOBNAMES(jobname-1 ...) ]
    ) ]
    [ EIM(
        [DOMAINDN(eim_domain_dn)]
        [OPTIONS (ENABLE | DISABLE)]
        [LOCALREGISTRY(registry_name)] ) ]
    [ FCLASS(profile-name-2-class) ]
    [ FGENERIC ]
    [ FROM(profile-name-2) ]
    [ FVOLUME(profile-name-2-serial) ]
    [ KERB (
        [ DEFTKTLFE(def-ticket-life) ]
        [ ENCRYPT (
            [ DES | NODES ]
            [ DES3 | NODES3 ]
            [ DESD | NODESD ]
        ) ]
        [ KERBNAME(kerberos-realm-name) ]
        [ MAXTKTLFE(max-ticket-life) ]
        [ MINTKTLFE(min-ticket-life) ]
        [ PASSWORD(kerberos-password) ]
    ) ]
    [ LEVEL(nn) ]
    [ NOTIFY(userid) ]
    [ OWNER (userid or group-name) ]
    [PROXY(
        [ LDAPHOST(ldap_url)]
        [ BINDDN(bind_distinguished_name)]
        [ BINDPW(bind_password)] ) ]
    [ SECLABEL(seclabel-name) ]
    [ SECLEVEL(secllevel-name) ]
```

RDEFINE

```
[ SESSION(
  [ CONVSEC( NONE | CONV | PERSISTV
            | ALREADYV | AVPV )
  ]
  [ INTERVAL(n) ]
  [ LOCK ]
  [ SESSKEY(session-key) ]
  ) ]
[ SINGLEDN ]
[ SSIGNON(
  [ KEYMASKED(key-value)
  | KEYENCRYPTED(key-value)] ) ]
[ STDATA(
  [ USER(userid | =MEMBER) ]
  [ GROUP(group-name | =MEMBER) ]
  [ PRIVILEGED( NO | YES) ]
  [ TRACE( NO | YES) ]
  [ TRUSTED( NO | YES) ]
  ) ]
[ SVFMR(
  [ SCRIPTNAME(script-name) ]
  [ PARMNAME(parm-name) ]
  ) ]
[ TIMEZONE( {E | W} hh[.mm] ) ]
[ TME(
  [ CHILDREN(profile-name ...) ]
  [ GROUPS(group-name ...) ]
  [ PARENT(profile-name) ]
  [ RESOURCE(resource-access-specification ...) ]
  [ ROLES(role-access-specification ...) ]
  ) ]
[ TVTOC ]
[ UACC(access-authority) ]
[ WARNING ]
[ WHEN( [DAYS(day-info)] [TIME(time-info)] ) ]
```

RDELETE (Delete General Resource Profile)

Purpose

Delete RACF profiles belonging to classes specified in the class descriptor table.

Syntax:

```
[subsystem-prefix]{RDELETE | RDEL}
      class-name
      (profile-name ...)
      [ AT([node].userid ...) | ONLYAT([node].userid ...)]
```

REMOVE

REMOVE (Remove Users from a Group)

Purpose

Remove a user from a group and assign a new owner to any group data set profiles the user owns on behalf on that group.

Syntax:

```
[subsystem-prefix]{REMOVE | RE}  
    (userid ...)  
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]  
    [ GROUP(group-name) ]  
    [ OWNER(userid or group-name) ]
```

RESTART (Restart RRSF functions)

Purpose

To restart an RRSF function in the RACF subsystem address space.

Syntax:

```
subsystem-prefix RESTART
```

```
{COMMAND  
| CONNECTION [ NODE (nodename | *)  
| [SYSNAME (sysname | * ) ] ]  
| MESSAGE  
| OUTPUT  
| RACLINK  
| RECEIVE  
| SEND }
```

RLIST

RLIST (List General Resource Profile)

Purpose

Display information on resources belonging to classes specified in the class descriptor table.

Syntax:

```
[subsystem-prefix]{RLIST | RL}
    class-name
    {(profile-name ...) | * }
    [ ALL ]
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]
    [ AUTHUSER ]
    [ DLFDATA ]
    [ EIM]
    [ {GENERIC | NOGENERIC} ]
    [ HISTORY ]
    [ KERB ]
    [ NORACF ]
    [ NOYOURACC ]
    [ PROXY]
    [ RESGROUP ]
    [ SESSION ]
    [ SSIGNON ]
    [ STATISTICS ]
    [ STDATA ]
    [ SVFMR ]
    [ TME ]
    [ TVTOC ]
```

RVARY (Change Status of RACF Data Base)

Purpose

Activate or deactivate RACF, switch primary or backup RACF databases, deactivate protection for profiles belonging to classes while RACF is inactive, select mode of operation when RACF is enabled for sysplex communication.

Syntax:

```
[subsystem-prefix]RVARY  
    [ ACTIVE  
      | INACTIVE [NOCLASSACT(class-namelist | *) (NOTAPE) ]  
      | DATASHARE | NODATASHARE  
      | SWITCH ]  
    [ DATASET(dataset-namelist | *) ]  
    [ LIST | NOLIST ]
```

SEARCH

SEARCH (Search RACF Data Base)

Purpose

Obtain a list of RACF profiles, users, and groups.

Syntax:

```
[subsystem-prefix]{SEARCH | SR}
    [ AGE(number-of-days) ]
    [ {ALL | GENERIC | NOGENERIC | MODEL | TAPE | VSAM |
      NONVSAM} ]
    [ AT([node].userid ...) | ONLYAT([node].userid ...)]
    [{CATEGORY [category-name] | EXPIRES(number-of-days) |
      LEVEL(level-number) | SECLABEL [seclabel-name] | SECLEVEL
      [seclabel-name] | WARNING} ]
    [ CLASS( {DATASET | class-name} ) ]
    [ CLIST ['string-1' ['string-2'] ] ]
    [ FILTER(filter-string) ]
    [ GID (group-identifier) ]
    [ {LIST | NOLIST} ]
    [ {MASK( {char-1 | *}[ char-2] ) | NOMASK} ]
    [ UID (user-identifier) ]
    [ USER (userid) ]
    [ VOLUME ]
    [ VOLUME(volume-serial) ]
```

SET

Purpose

Use the SET command to:

- List information related to RRSF on the local node
- Specify the name of a member of the RACF parameter library to be processed by RACF
- Set tracing on or off for specified RACF subsystem facilities
- Enable and specify options for automatic direction

SET

Syntax:

```
subsystem-prefix SET
    [ AUTOAPPL([
        [ NOTIFY(notify-level(list-of-notify-users))
          | NONOTIFY ]
        [OUTPUT(output-level(list-of-output-users))
          | NOOUTPUT ]
        ])
      | NOAUTOAPPL
    ]
    [ AUTODIRECT([
        [ NOTIFY(notify-level(list-of-notify-users))
          | NONOTIFY ]
        [OUTPUT(output-level(list-of-output-users))
          | NOOUTPUT ]
        ])
      | NOAUTODIRECT
    ]
    [ AUTOPWD([
        [ NOTIFY(notify-level(list-of-notify-users))
          | NONOTIFY ]
        [OUTPUT(output-level(list-of-output-users))
          | NOOUTPUT ]
        ])
      | NOAUTOPWD
    ]
    [ INCLUDE(member-suffix...) ]
    [ JESNODE(nodename) ]
    [ LIST ]
    [ PWSYNC([
        [ NOTIFY(notify-level(list-of-notify-users))
          | NONOTIFY ]
        [OUTPUT(output-level(list-of-output-users))
          | NOOUTPUT ]
        ])
      | NOPWSYNC
    ]
    [TRACE({
        [APPC | NOAPPC]
        [ASID(asid ... !*)|NOASID | ALLASIDS]
        [CALLABLE(ALL | NONE | TYPE(type ...))]
    | NOCALLABLE]
        [DATABASE({
            [ALL | NONE]
            [ALTER | NOALTER]
            [ALTERI | NOALTERI]
            [READINOREAD]])
        | NODATABASE ]
        [ IMAGE | NOIMAGE ]
        [ JOBNAME(jobname ... !*)
          | NOJOBNAME | ALLJOBNAMES ]
        [PDCALLABLE(ALL | NONE
          | TYPE(type ...))]
    | NOPDCALLABLE]
        [ RACROUTE(ALL | NONE
          | TYPE(type ...) | NORACROUTE ]
        ]])
```

SETROPTS (Set RACF Options)

Purpose

Set system-wide RACF options dynamically.

Syntax:

```
[subsystem-prefix]{SETROPTS | SETR}
    [ ADDCREATOR | NOADDCREATOR ]
    [ ADSP | NOADSP ]
    [ APPLAUDIT | NOAPPLAUDIT ]
    [ AT([node].userid ...) | ONLYAT([node].userid ...) ]
    [ {AUDIT | NOAUDIT} ({class-name ... | *}) ]
    [ CATDSNS ( FAILURES | WARNING ) | NOCATDSNS ]
    [ {CLASSACT | NOCLASSACT} ( {class-name... | *} ) ]
    [ CMDVIOL | NOCMDVIOL ]
    [ COMPATMODE | NOCOMPATMODE ]
    [ EGN | NOEGN ]
    [ EIMREGISTRY | NOEIMREGISTRY ]
    [ ERASE [(
        { ALL
        | SECLEVEL(seclvl-name)
        | NOSECLEVEL}
    )] ]
    [ NOERASE ]
    [ {GENCMD | NOGENCMD} ( {class-name... | *} ) ]
    [ {GENERIC | NOGENERIC} ( {class-name... | *} ) ]
    [ GENERICOWNER | NOGENERICOWNER ]
    [ {GENLIST | NOGENLIST} (class-name ...) ]
    [ {GLOBAL | NOGLOBAL} ( {class-name ... | *} ) ]
    [ GRPLIST | NOGRPLIST ]
    [ INACTIVE(unused-userid-interval) | NOINACTIVE ]
    [ INITSTATS | NOINITSTATS ]
    [ JES (
        [ BATCHALLRACF | NOBATCHALLRACF ]
        [ EARLYVERIFY | NOEARLYVERIFY ]
        [ XBMALLRACF | NOXBMALLRACF ]
        [ NJEUSERID(userid) ]
        [ UNDEFINEDUSER(userid) ]
    ) ]
    [ KERBLVL(0|1)]
    [ LANGUAGE(
        [ PRIMARY(language) ]
        [ SECONDARY(language) ]
    ) ]
    [ LIST ]
    [ LOGOPTIONS(
        {ALWAYS(class-name, ...), ...
        | NEVER(class-name, ...), ...
        | SUCCESSES(class-name, ...), ...
        | FAILURES(class-name, ...), ...
        | DEFAULT( {class-name, ... | *} ) }
    ) ]
    [ MLACTIVE [( FAILURES | WARNING )] | NOMLACTIVE ]
    [ MLQUIET | NOMLQUIET ]
    [ MLS [( FAILURES | WARNING ) ] | NOMLS ]
```

SETROPTS

```
[ MLSTABLE | NOMLSTABLE ]
[ MODEL(
  [ GDG | NOGDG ]
  [ GROUP | NOGROUP ]
  [ USER | NOUSER ]
) ]
[ NOMODEL ]
[ OPERAUDIT | NOOPERAUDIT ]
[ PASSWORD(
  [ HISTORY(number-previous-passwords)
    | NOHISTORY ]
  [ INTERVAL(password-change-interval) ]
  [ REVOKE(number-invalid-passwords)
    | NOREVOKE ]
  [ {RULE $n$ (LENGTH( $m1:m2$ ) content-keyword (position))
    | NORULE $n$ 
    | NORULES} ]
  [ WARNING(days-before-password-expires)
    | NOWARNING ]
) ]
[ PREFIX(prefix) | NOPREFIX ]
[ PROTECTALL [( FAILURES | WARNING )] | NOPROTECTALL ]
[ {RACLIST | NORACLIST} (class-name ...) ]
[ REALDSN | NOREALDSN ]
[ REFRESH ]
[ RETPD(nnnnn) ]
[ RVARYPW( [SWITCH(switch-pw)] [STATUS(status-pw)] ) ]
[ SAUDIT | NOSAUDIT ]
[ SECLABELAUDIT | NOSECLABELAUDIT ]
[ SECLABELCONTROL | NOSECLABELCONTROL ]
[ SECLEVELAUDIT (security-level) | NOSECLEVELAUDIT ]
[ SESSIONINTERVAL( $n$ ) | NOSESSIONINTERVAL ]
[ {STATISTICS | NOSTATISTICS} ({class-name... | *}) ]
[ TAPEDSN | NOTAPEDSN ]
[ TERMINAL( NONE | READ ) ]
[ {WHEN | NOWHEN} (PROGRAM) ]
```

SIGNOFF (Sign Off Sessions)

Purpose

Use the SIGNOFF command to sign off sessions by removing them from the signed-on-from list maintained by RACF.

Syntax:

```
subsystem-prefix SIGNOFF  
  
APPL(local-luname | *)  
POE(partner-luname | *)  
USER(userid-name | *)  
[GROUP(group-name | *)]  
[SECLABEL(security-label | *)]
```

STOP

STOP (Shutdown RRSF)

Purpose

To shut down the RACF subsystem address space in an orderly manner without losing any remote RRSF requests.

Syntax:

```
subsystem-prefix STOP
```


TARGET (Define RRSF Nodes)

Purpose

Use the TARGET command to define the local and remote nodes for RRSF.

Syntax:

```

subsystem-prefix TARGET
    [ DELETE | DORMANT | OPERATIVE ]
    [ DESCRIPTION('description') ]
    [ LIST ]
    [ LOCAL ]
    [ MAIN ]
    [ NODE(nodename *) ]
    [ PREFIX(qualifier...) ]
    [ PROTOCOL(APPC(LUNAME(luname)
        [ TPNAME(profile-name) ]
        [ MODENAME(mode-name) ] ) ) ]
    [ PURGE(INMSG | OUTMSG) ]
    [ SYSNAME(sysname | *) ]
    [ WDSQUAL(qualifier) ]
    [ WORKSPACE(
        { [ STORCLASS(class-name) ]
          [ DATACLAS(class-name) ]
          [ MGMTCLAS(class-name) ]
        | [ VOLUME(volume-serial) ] }
    [ FILESIZE(nnnnnnnnnn|500) ] ) ]

```

TARGET

Appendix. Accessibility

Accessibility features help a user who has a physical disability, such as restricted mobility or limited vision, to use software products successfully. The major accessibility features in z/OS™ enable users to:

- Use assistive technologies such as screen-readers and screen magnifier software
- Operate specific or equivalent features using only the keyboard
- Customize display attributes such as color, contrast, and font size

Using assistive technologies

Assistive technology products, such as screen-readers, function with the user interfaces found in z/OS. Consult the assistive technology documentation for specific information when using it to access z/OS interfaces.

Keyboard navigation of the user interface

Users can access z/OS user interfaces using TSO/E or ISPF. Refer to *z/OS TSO/E Primer*, *z/OS TSO/E User's Guide*, and *z/OS ISPF User's Guide Volume I* for information about accessing TSO/E and ISPF interfaces. These guides describe how to use TSO/E and ISPF, including the use of keyboard shortcuts or function keys (PF keys). Each guide includes the default settings for the PF keys and explains how to modify their functions.

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