

CA Top Secret[®] for z/VM

Reporting Guide

r12



Second Edition

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Documentation Changes

The following documentation updates have been made since the last release of this documentation:

- Formatted Record Types—Added a note after ID 9708 to explain how options appear in the cfile and changed ID 9715 options from ACTIVE|INACTIVE to ON|OFF.

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Chapter 1: Introduction

This guide is designed for system administrators and auditors who wish to obtain different types and levels of reports for security information. This guide provides descriptions for the CA Top Secret for z/VM utility programs: TSSUTIL, TSSAUDIT, TSSCHART TSSCFIL, TSSREPT, and TSSCPR.

- TSSUTIL is a batch utility that generates formatted reports and extracts records from security events found in the Audit/Tracking File.
- TSSCHART is a batch utility that builds a tree structure of the full CA Top Secret File. This tree structure represents zones, divisions, departments, profiles, and users.
- TSSAUDIT is a batch utility that allows the auditor to monitor changes to the CA Top Secret File.
- TSSCFIL is a batch utility that produces formatted records containing Security File data.
- TSSREPT applies the capabilities of CA-Earl to TSSCFIL and TSSUTIL output to produce customized reports.
- TSSCPR is used to verify which TSS commands are still pending in the CPF Recovery File.

Chapter 2: TSSUTIL Utility

This section contains the following topics:

[About TSSUTIL](#) (see page 12)

[Authority and Scope](#) (see page 13)

[TSSUTIL Exec Parameters](#) (see page 13)

[TSSUTIL Verbs](#) (see page 14)

[TSSUTIL JCL](#) (see page 14)

[TSSUTIL Report Selection Criteria](#) (see page 15)

[Sample TSSUTIL Selection Criteria](#) (see page 28)

[TSSUTIL Report Description](#) (see page 30)

About TSSUTIL

TSSUTIL provides the CA Top Secret administrator with batch reports and with the ability to extract audit information recorded in the Audit/Tracking File. This information contains detailed security-related activity; the batch reports can be customized by choosing specific selection criteria.

The following considerations affect TSSUTIL:

- TSSUTIL can report on an AUDIT file detached from any Security File by using the HISTORY parameter.
- The Audit/Tracking File supports 256 byte resource names.
- TSSUTIL accommodates resource names up to 256 bytes in length.
- Alternating between two Audit/Tracking files is now available. This allows you to backup one AUDIT file while working on another.
- Reports are produced with events in chronological order as found in the Audit/Tracking File. No sorting is performed.
- Reporting depends greatly upon the correct specification of logging options. The LOG option allows you to request the type of events to be logged; specify where logging information is recorded; and choose where violation notification is made.

The following logging options are required to obtain security information:

LOG(INIT,...) requests logging of all job/session initiations and terminations.

LOG(ACCESS,...) requests logging of all resource access.

Each facility can be separately monitored.

Violations are always logged by default.

All security events would need to be logged via the TSS LOG option in order to use the full range of options available with TSSUTIL. Selection, therefore, is limited to data available as a result of the TSS LOG option. Multiple and different reports may be generated using the same Audit/Tracking File input data and one use of TSSUTIL.

Authority and Scope

To use TSSUTIL you must have or be given REPORT authority. This administrative authority may be given by anyone who has REPORT authority with the following:

TSS ADMIN(acid) ACID(REPORT) RESOURCES(REPORT)

You can only report on those incidents that are generated for ACIDs within the scope of your authority. The scopes are:

SCA-

Every event

LSCA

Every event within the LSCAs scope

ZCA

Entire zone or all divisions within the zone

VCA

Entire division or all departments within the division

DCA

Entire department or all ACIDs within the department

USER

The user

Note: When using EVENT(VIOL) or EVENT(AUDIT), LSCAs, ZCAs, VCAs and DCAs can report on incidents that are generated for resources within their scope, whether or not the ACID causing the event is within their scope. VCAs using EVENT(VIOL) or EVENT(AUDIT) and specifying a department get resources within that department's scope. For more details on EVENT, see TSSUTIL Report Selection Criteria.

TSSUTIL Exec Parameters

Reports can also be run against a release 1.1 format Audit File using the //DD control statement. For detailed information on EXEC parameters and the //DD control statement, see the *Implementation Guide*.

TSSUTIL Verbs

The verbs are as follows:

REPORT option,option,...

Produces a formatted report of security incidents selected according to the selection criteria options. The report can be either one line per event or two lines if the LONG selection criterion is selected.

END

Separates multiple reports. Indicates the end of a selection request. Additional REPORT requests may follow.

TSSUTIL JCL

You may use the active or alternate Audit/tracking File as input for generating your TSSUTIL reports. The following JCL uses the active Audit/Tracking File as input:

```
//TSSJOB ACID=SCA0001,PASSWORD =SOCK /* DELETE PASSWORD */  
//DD AUDFILE /* THIS IS THE DD STATEMENT FOR THE ACTIVE ATF */  
//EXEC PGM=TSSUTIL  
EVENT(ALL) DATE(TODAY) END
```

The following JCL uses the alternate Audit/Tracking File as input:

```
//TSSJOB ACID=SCA0001,PASSWORD =SOCK /* DELETE PASSWORD */  
//DD AUDIT02 CUU=0301 DSN=TSS.SECOND.AUDIT.FILE  
//EXEC PGM=TSSUTIL  
EVENT(ALL) DATE(TODAY) END
```

TSSUTIL Report Selection Criteria

The selection criteria options select the types of incidents to be processed. You may specify any option but each option may only be specified once. For example, DEPT(ABC,XYZ) is valid but DEPT(ABC) DEPT(XYZ) is not. To be eligible for processing, all selection criteria must be met within each Audit/Tracking File record. The list of selection criteria is as follows:

- ACCESS
- ACCESSOR
- CLASS
- DATASET
- DATE
- DEPT
- DIVISION
- DRC
- EARLOUT
- EVENT
- FACILITY
- HISTORY
- JOBNAME
- LINECNT
- LONG
- MODE
- NOLEGEND
- RESCLASS
- RESOURCE
- SYSID
- TERMINAL
- TIME
- TITLE
- UNDEF
- VOLUME
- ZONE

Each selection criterion uses the following syntax conventions:

- UPPERCASE characters must be entered as shown.
- Lowercase italicized characters represent user-specified variables.
- The ellipses characters (...) denote that additional options can be supplied.
- Optional parameters appear in brackets [].
- The | character denotes an OR condition (only one of the options can be supplied).

Note: Abbreviated forms, if any, appear under the full names of the selection criteria in the boxed areas.

ACCESS

Selects a type of access to data set, volume, CICS, UR1, UR2, and FIELD requests. Only those incidents whose access matches the requested access level are selected.

ACCESS(READ|UPDATE|ALTER)

READ

Selects input-only events.

UPDATE

Selects update requests.

ALTER

Selects CREATE, SCRATCH, CONTROL, ALL access.

ACCESSOR

Selects records produced by jobs or sessions running under a specific ACID(s). This statement cannot be used by a VCA. A maximum of eight ACIDs can be specified.

```
ACCESSOR(acid,...|* )
```

ACID

A

acid

Is an ACID name. If you specify more than one, separate them with commas.

*

If ACID(*) is used, all jobs/sessions with undefined ACIDs are selected including *MISSING *UNDEF* *BYPASS*.

Note: This request is only valid for an SCA.

acid*

Is an ACID prefix. All ACIDs that begin with the given prefix will be selected.

CLASS

Selects records that refer to a specific resource class.

CLASS(*type*)

The *type* can be only one of the following:

| | |
|------------------------------------|-------------------------------------|
| a CA-IDMS SUBSCHEMA | b CA-IDMS AREA |
| c Data base | d IMS DBD |
| f 3090 Vector Facility | g TSO acct |
| h TSO auth | i TSO proc |
| j TSO performance group | |
| m VM VMCF | |
| n VM IU CV | o VM TSAF (APPC/VM) |
| A Application | B Audited job submission |
| C Security File change | D Data set |
| E CICS DCT | F CICS FCT |
| G Authentication call | H TOTAL file |
| I ACID xe03type | J CICS JCT |
| K Terminal unlock | L Terminal lock |
| M UR1 | N UR2 |
| O TSS control options | P Program |
| Q CICS PPT | R Data base field |
| S DL/1 PSB | T Terminal |
| U Abstract | V Tape volume |
| W DASD volume | X Transaction |
| Y USERn | Z CICS TST |
| 1 Change propagation | 2 CA Jobname |
| 3 CA Panel | 4 DUFSTR |
| 5 DUFUPD | 6 User logging |
| 7 VMMDISK | 8 VM CPCMD |
| 9 VM DIAG | 0 VMNODE |
| * Reserved | # VMRDR |
| % Logging DB2 resources | \$ VM DCSS |
| @ VMDIAL | + Logging installation exit call |
| = CACMD | - CA-SCHEDULER schedule |
| ? Extract | < Operation commands |
| > Owned transactions | . Data set |
| / DASDvolt | " Tapevolt |
| ! CA-SCHEDULER/DISPATCH Station | & CA-DISPATCH Recipid |
| : Reserved | > VMANAPPL |
| º UNVEDIT | \ UNVRPRT |
| - UNVPGM | , CPU |
| SDSF user class | - VMMACHine |
| - IBMGROUP RACF group | - PROPCNTL |
| _ RV4 | ; RV5 |

```

^ RV6                ( SMS mgmt class
) SMS storage class  '  RVA

```

Note: If no type is specified, all resource class records are selected except CLASS(O). These records display only when specifically requested.

DATASET

Selects records that refer to any of the specified data set prefixes.

```

DATASET(dsnprx,...)
DSN
D

```

dsnprx

Is a data set prefix. All records that refer to data set(s) matching the prefix(es) are selected. If you specify more than one prefix, separate them with commas.

DATE

Selects records based on a date or range of dates.

```

DATE(date1[,date2] | TODAY | -nn)

```

date1

Is a base Julian date (yyddd). If you specify only one date, records produced on or after that date are selected.

date2

Is a limiting Julian date (yyddd). If you specify two dates, records produced on and between those dates are selected.

Note: To select records produced on a single day, specify date1 equal to date2.

TODAY

If you specify TODAY, then the Julian date for this day is substituted.

-nn

If you specify -nn, where nn is a value from 00 to 99, then the Julian date subtracted from the current date is used, and a report is produced including records from the selected date to the current date. For example, DATE(-01) means yesterday and today; DATE(-00) is today. DATE(-02,-01) is the day before yesterday thru yesterday.

DEPT

Selects one or more departments for which security records are selected. This statement is not valid for a DCA; the DCA's department is used by default. A maximum of eight departments can be selected.

DEPT(*dept*, ...)

dept

Specifies the department name.

DIVISION

Selects the division for which Security Records will be selected. One Division ACID can be specified.

DIVISION(*div*)

division

Specifies the division name.

DRC

Selects all records that are flagged with the specified error code(s).

DRC(*code*, ... |IN|DS|VL|RS|PW)

code

Specifies a detailed error reason code in hexadecimal format, 00 through FF. A maximum of 32 total DRCs may be specified.

IN

Selects all initiation violation codes. (01 - 1D)

DS

Selects all data set violation codes. (65 - 72)

VL

Selects all volume violation codes. (73 - 81)

RS

Selects all resource violations. (82 - 9F)

PW

Selects all password and OID violations. (07 - 0F)

EARLOUT

Extracts AUDIT file information for later processing by CA-EARL or another report generator or you choice. In addition to the normal listing file, a separate punch file is returned to the submitter as well. This file can be processed immediately by using option 2 of the TSSREPT utility or can be placed on a minidisk for later use by executing the TSSUTILA utility as follows:

```
TSSUTILA jobid <filename <filetype <filemode>>> <(RE)place>
```

jobid

The TSSUTIL job number that was assigned to the job by the server during execution. You can obtain the jobid by entering a QUERY READER * ALL command and examining the NAME field which will be in the form, TSSJnnnn. The value for nnnn should be used as the jobid. This parameter is required.

filename

The filename of the CMS file that is to contain the external-format TSSUTIL records. The default: TSSJnnnn where nnnn is the value specified for jobid.

filetype

The filetype of the CMS file that is to contain the external-format TSSUTIL records. The default is TSSUTIL.

filemode

The filemode of the CMS file that is to contain the external-format TSSUTIL records. The default is A.

REPlace

Indicates that if the CMS file already exists, it should be replaced.

Return Code Definitions

0

Successful completion

24

Invalid command specification

28

No reader file of type PUN found for this jobid or the CMS file already exists

32

Invalid reader file format or error in reader file data

1xx

Return code from CMS file system error

EVENT

Selects one or more of the incidents to be chosen.

EVENT (ALL | ACCESS | HISTORY | JOBS | INIT | TERM | VIOL | AUDIT)

ALL

(Default) Selects all events.

ACCESS

Selects resource and facility accesses. .

AUDTA

Selects all records except those with 'OK+B'.

HISTORY

Produces a report using an archived Audit/Tracking File. Since there is no scope checking, only an SCA can run the report.

JOBS

Selects job/session initiations and terminations.

INIT

Selects only job/session initiations.

TERM

Selects only job/session terminations.

VIOL

Selects access violations.

AUDIT

Selects audited incidents.

FACILITY

Selects records produced by jobs or sessions using one or more specific system facilities.

FACILITY(ALL|*fac*,...)

FAC

F

ALL

(Default) Includes all facilities.

fac

Is a system facility defined to: BATCH, STC, TSO, IMS, CICS, NCCF, CA-ROSCOE, WYLBUR, VM or any installation-defined facility.

HISTORY

When used with the ACID keyword, selects ACIDs that have been deleted from the Security File. For example, if ACID USER10 has been deleted, the following statement would report on the events USER10 created:

```
REPORT EVENT (ALL) ACID(USER10) HISTORY
```

```
HISTORY
```

Note: This keyword can only be used by an SCA or the MSCA.

JOBNAME

Selects records produced by specific jobs or online sessions.

JOBNAME(*jobname*, *job**,...)

JOB

J

jobname

Specifies a specific jobname or online userid.

job*

Specifies a VM userid, jobname or TSO userid PREFIX. All jobnames that start with the supplied prefix are selected.

LINECNT

Changes the default line count of 53 information lines for the report listing.

LINECNT(*nn*)

nn

Specifies the new line count, in the range 10 to 99.

LONG

Requests the long format of a report which produces two lines per event.

LONG

MODE

Selects all events that are recorded while the user is in the specified mode.

MODE(DORMANT | WARN | IMPL | FAIL)

NOLEGEND

Suppresses generation of the legend at the bottom of all reports in the current job execution.

NOLEGEND

RESCLASS

Selects any resource class defined in the RDT.

RESCLASS(*resource class name*,...)

resource class name

Any resource that has been predefined or dynamically defined to the RDT.

RESOURCE

Selects records that refer to a resource prefix other than a data set or volume. You may use the RESOURCE and CLASS options together to select a specific type of resource.

```
RESOURCE(resprx,...)  
RES  
R
```

resprx

Is a prefix for an online or RJE terminal, command, program, application or installation-defined resource. All records that refer to resource(s) matching the prefix(es) are selected. If you specify more than one prefix, separate them with commas.

SYSID

Selects records produced on a specific system or CPU. Use SYSID to select records for a specific system which uses a shared Audit/Tracking File.

```
SYSID(logid)
```

logid

The four-character VMLOGID or SMF-id of the required system.

TERMINAL

Selects all events associated with a specific terminal or reader. This includes all events not only initiations.

```
TERMINAL(termprx)  
TERM  
T
```

termpr

Is a prefix for an online terminal or RJE reader.

TIME

Selects records based on a time or time range. You can only use the TIME option if you previously specified the DATE option.

TIME(*time1* [, *time2*])

time1

Is a time (*hhmmss*) within a 24-hour time frame. By specifying only one time, you select the records produced ON or AFTER that time.

time2

Is a time (*hhmmss*) within a 24-hour time frame. By specifying two times, you select all records produced ON and BETWEEN those times.

To select records produced at a specific time, specify time1 equal to time2.

TITLE

Provides up to 40 characters to replace the characters "CA Top Secret" on the report title line.

TITLE(*text...*)

UNDEF

Indicates whether or not events with undefined (*UNDEF*) or missing (*MISSING) ACIDs are selected.

UNDEF(INC | EXC)

INC

(Default) Includes undefined or missing ACID events.

EXC

Excludes undefined or missing ACID events.

VOLUME

Selects records that refer to any of the specified prefixes.

VOLUME(*volprx*,...)

VOL

V

volprx

Is a volume prefix. All records that refer to any volume(s) matching the prefix(es) are selected. If you specify more than one prefix, separate each of them with commas.

ZONE

Selects the zone for which Security Records will be selected. Only one zone can be specified.

ZONE(*zone*)

zone

Identifies the zone by name.

Sample TSSUTIL Selection Criteria

Produce two reports: the first, a total violation report; the second, audit entries:

```
REPORT EVENT(VIOL) END
REPORT EVENT(AUDIT) END
```

Select all TSO data violations that occurred yesterday:

```
DATE(-01,-01) DRC(DS) FACILITY(TSO)
```

Select all events logged on April 26, 1991 for jobs FINBUD01 and FINBUD02:

```
J(FINBUD01,FINBUD02) DATE(91116,91116) EVENT(ALL)
```

Select all violations by all users in the Finance Department:

```
DEPT(FINANCE) EVENT(VIOL)
```

Select all violations against volumes with the prefix WORK by users B1010, B1020, B1030:

```
A(B1010,B1020,B1030) V(WORK) EVENT(VIOL)
```

Select all jobs submitted from terminal R15.RD1:

```
RES(R15.RD1) CLASS(T) EVENT(INIT)
```

Select all updates against SYS1.SPFPARMS from the CPU SYS3:

```
SYSID(SYS3) EVENT(ACCESS) DSN(SYS1.SPFPARMS)
ACCESS(UPDATE)
```

Select all test CICS unowned transactions with violations, and the report generates two lines for every security incident:

```
CLASS(X) FAC(CICSTEST) EVENT(VIOL) LONG
```

Select illegal CPU SYS2 access attempts for the second shift:

```
EVENT(VIOL) RES(CPU.SYS2) TIME(160000,235959)
```

Select all IMS production signon password violations:

```
DRC(PW) F(IMSPROD)
```

Select all jobs that are undefined:

```
FAC(BATCH) ACID(*)
```

Select all operator authentication failures:

CLASS(G) EVENT(VIOL)

Select all production jobs:

EVENT(ALL) JOB(PROD*)

Select CICS production and test violations against payroll files:

EVENT(VIOL) RES(PAY) FAC(CICSPROD,CICSTEST)

Select all minidisks:

RESCLASS(VMDISK)

Select specific audited terminals:

EVENT(AUDIT) TERM(GRAF001,GRAF002,GRAF003)

Select all uses of selected system utilities:

EVENT(ALL) RES(IMASPZAP,IEHPROGM,IEHINITT)

TSSUTIL Report Description

The TSSUTIL REPORT function produces a fixed-format report whose content is determined by the selection criteria. One report line is generated for each security incident unless the LONG selection criterion is used which generates two report lines. A final summary shows retrieval statistics, and two legends are produced at the end of each report to guide you through the various areas and codes. (See Sample TSSUTIL Reports for information on the reports and codes.)

The title line of each report page indicates the sequence number of the report being produced, as several reports can be produced with one run of the utility. A subtitle, controlled by the TITLE option can be used to identify different reports or to provide a company or department name.

The header line for the report's data areas are explained below, along with the appropriate selection criteria:

DATE

The date when the related incident was recorded. The format of the date is controlled by the DATE control option specified at initialization. The default is month/day/year. This may vary if using European, military, or other date format. Selection criterion is DATE.

TIME

The time of day when the incident was recorded. Selection criterion is TIME.

SYSI

The VMLOGID or SMF identification of the CPU that logged the event. Selection criterion is SYSID.

ACCESSOR

The ACID that was in effect for the user. For VM users the ACID is generally the userid defined in the directory. ACIDs that begin with an asterisk "*" are special to CA Top Secret. *UNDEF* indicates an undefined user. *BYPASS* indicates that the user is bypassing security. Selection criterion is ACID.

JOBNAME

Either the name of a batch job, the procedure name of a started task (STC), or the userid of an online user. The jobname is usually the same for a VM user. The jobname for the online region appears with that of an online user ACID. Selection criterion is JOBNAME.

FFM

Represents two data items: FACILITY and MODE. The facility being used is represented by a single character. The most common facility codes are:

T=TSO B=BATCH C=CICSPROD
R=ROSCOE V=VM

FACILITY

Codes for other facilities may be obtained by entering:

```
TSS MODIFY(FAC(facname))
```

The mode of the user is represented by the second single character that shows:

```
D=DORMANT W=WARN I=IMPL F=FAIL
```

- For example, VW shows a VM user in WARN mode.
- Selection criteria are FACILITY and MODE.

Note: When using the LONG selection criterion, a second report line generates up to an eight-character facility name taken from the Facility Matrix, and a four-character mode of the user:

```
DORM WARN IMPL FAIL
```

VC

Represents a consecutive accumulation of violations for life of the session or job. It is displayed only with violation entries.

PROGRAM

Shows the name of the program in control at the time the security incident was recorded. Common program names are:

- ISPTASK-SPF
- IEFIIC-Batch initiator
- IKJEFLC-TSO LOGON
- IMASPZAP-Superzap

A program name is not always present, especially if the event was recorded through an online data base system such as CICS or IMS. Selection criterion is RESOURCE. (Select RESOURCE only if you are looking for explicitly owned program usage.)

For CP commands, this field contains the name of the virtual machine that was the target of the command.

R-ACCESS

Shows the requested access level as defined in the RDT for the current resource (usually minidisk, data set, volume, or CICS file).

If an access mask does not uniquely define an access level, the access mask is displayed preceded by an asterisk. In this case; the access mask displayed represents more than one access level.

A-ACCESS

Shows the allowed access level as defined in the RDT for the current resource. Indicates how the resource (usually data set, volume, or CICS file) was accessed by the user or job.

If an access mask does not uniquely define an access level, the access mask is displayed preceded by an asterisk. In this case; the access mask displayed represents more than one access level.

SRC/DRC

Shows the return code presented to the system (caller) and the associated detailed error reason code. This indicates whether the access was successful or was failed. OK indicates the request was successful OK+A indicates a successful audited incident OK+B indicates a successful bypassed access. Otherwise, the return and detail codes are shown in the format:

rr-dd

where rr is the return code, and dd is the detailed error reason code. Return codes are documented in the legend produced at the end of the report.

For example, *30*-0F indicates a terminal or reader violation during initiation; *08*-65 indicates a data set is not accessible.

Selection criteria are as follows. To get violations and audit entries, use EVENT(VIOL,AUDIT). To get only the specific violations as explained by the detailed error reason codes, use DRC.

SEC

For MVS violations, this shows the vendor or customer security driver requesting security validation. This is represented by a three-character mnemonic or by a hexadecimal value for the SVC in control. The legend at the end of the report shows all driver codes.

The common driver codes are:

- OPN-Open
- OPJ-Open-j
- INI-Initiation
- CAT-Catalog management
- SUB-Submit
- CRE-Data set creation

RESOURCE

Shows the class and name of the resource being accessed. This value varies greatly and does not always appear. For initiations, the name of the user usually appears via the NAME= keyword. The most common classes are:

- 7-Minidisks
- 8-CP commands
- D-Data sets
- V-Volume-only
- The selection criteria are as follows:

- DATASET for data sets
- VOLUME for volumes
- RESOURCE for other resources
- RESCLASS for specific class

Note: When using the LONG selection criterion, a second report line generates up to an eight-character resource type and up to a 44-character resource name. Initiations still show NAME= followed by the user's name.

JOBID

Shows the job number.

TERMINAL

Shows the terminal for an online user: AUTOLOG for autologged initiations and DISC for disconnected virtual machines. Selection criterion is TERMINAL.

Note: When using the LONG selection criterion, a second report line generates the VOLSER number in this column.

ORIGINAL RESOURCE CLASS

Displays the original eight-character resource class before it was translated during the security check to the resource class displayed in the prior line. This line is displayed only:

- On a type=LONG audit report
- If a resource class translation has been performed

Chapter 3: TSSCHART UTILITY

This section contains the following topics:

[About TSSCHART](#) (see page 35)

[TSSCHART Required JCL](#) (see page 35)

[TSSCHART Keywords](#) (see page 36)

[TSSCHART Sample Executions](#) (see page 42)

About TSSCHART

TSSCHART builds a tree structure of the full Security File in memory consisting of control blocks representing zones, divisions, departments, profiles, and users. This tree structure is then filtered, depending on user parameters. The tree structure is automatically filtered according to the administrator's scope; that is, an administrator may only chart those ACIDs within his scope of authority. After the tree structure is appropriately filtered, TSSCHART "walks through" the tree, and uses the Security File to print more detailed information.

Note: The administrator must have RESOURCE(REPORT) and ACID(REPORT) authority to run TSSCHART.

TSSCHART Required JCL

The following JCL is required to run the TSSCHART utility in a z/VM environment.

```
//TSSJOB ACID=xxxxxxx,PASSWORD=xxxx  
//EXEC PGM=TSSCHART  
(control cards)
```

TSSCHART Keywords

The following principal keywords are used with TSSCHART:

- CHART
- RESOURCE
- PAGE
- DEPT or XDEPT
- DIV or XDIV
- ZONE or XZONE
- PROF or XPROF
- USER or XUSER

Each keyword and its optional parameters are described, below, using the following syntax conventions:

- UPPERCASE characters must be entered as shown.
- Lowercase italicized characters represent user-specified variables that must be supplied.
- The ellipses characters (...) denote that additional options can be supplied.
- Optional parameters appear in brackets [].
- The | character denotes an OR condition (only one of the options can be supplied).

The optional parameters for each keyword can be separated either by commas or spaces. For example:

```
CHART(ACIDS,RESOURCE,VCA)  
or
```

```
CHART(ACIDS RESOURCE VCA)
```

If the optional parameters for a keyword exceed the length of the line, end the line with a parenthesis. Begin the next line with the keyword followed by the remainder of the parameters in parentheses.

For example:

```
DIV(div,div,div,div,.....)  
DIV(div,*EJECT*)
```

This rule is applicable for all keywords with multiple optional parameters that might exceed the length of the line.

CHART

Determines the type of chart to be printed, and the data to be included in the chart.

CHART (ACIDS, RESOURCE, STATS, SCA, LSCA, ZCA, VCA, DCA)

ACIDS

(Default) Includes the zone, division, department, profile and user names in the chart.

RESOURCE

Includes resource ownership elements on the chart, that is, resources owned by the SCA, LSCA, zone, division, department and users. If ACIDs is specified with RESOURCE, resources owned by profiles and users are omitted.

STATS

Includes Security File statistics (record sizes, etc.) with each block on the chart.

SCA

Includes resources owned by SCAs on the chart. This parameter implies CHART(RESOURCE).

LSCA

Includes resources owned by LSCAs on the chart. This parameter implies CHART(RESOURCE).

ZCA

Includes resources owned by zonal administrators on the chart. This parameter implies CHART(RESOURCE).

VCA

Includes resources owned by divisional administrators on the chart. This parameter implies CHART(RESOURCE).

DCA

Includes resources owned by departmental administrators on the chart. This parameter implies CHART(RESOURCE).

RESOURCE

Specifies the class resources to be included on the resource chart.

```
RESOURCE [ (ABSTRACT,APPL,CICS,DATASET,
           [ FIELD,GENERAL,IDMS,IMS,PROGRAM,
           [ TERMINAL,VOLUME,ALL) ] ] ]
```

ABSTRACT

Includes abstract resources on the chart.

APPL

Includes Applications on the chart.

CICS

Includes CICS resources (DCT, FCT, PPT,...)

DATASET

Includes DSN resources.

FIELD

Includes user-defined fields.

GENERAL

Includes UR1, UR2 resources.

IDMS

Includes IDMS subschemas and areas.

IMS

Includes IMS PSB and DBD resources.

PROGRAM

Includes program resources.

SMS

Includes SMS resources.

TERMINAL

Includes terminal resources.

TSO

Includes TSO resources.

VM

Includes VM resources.

VOLUME

Includes volume resources.

ALL

Includes all of the above classes of resources.

If CHART(RESOURCE) is used, the default is RESOURCE (ALL); otherwise, the default is RESOURCE(NONE).

PAGE

Specifies the page size for TSSCHART. This is useful for printing charts on non-standard size pages, since blocks will not cross page boundaries.

PAGE(nn)

nn

Specifies the page size which can be from 01 to 99. The value for nn must be two digits. The default is 66.

DEPT or XDEPT

Specifies those departments to be included (DEPT) or excluded (XDEPT) from the chart.

DEPT|XDEPT(dept, ..., *ALL*, *NONE*, *DIV*, *EJECT*)

dept

Includes or excludes any valid specified department name(s).

ALL

Includes or excludes all departments.

NONE

Includes or excludes no departments.

DIV

Includes or excludes only those departments belonging to divisions.

EJECT

Causes a page eject at each new department.

The default is DEPT(*ALL*) or XDEPT(*NONE*)

DIV or XDIV

Specifies those divisions to be included or excluded from the chart.

DIV|XDIV(div, ..., *ALL*, *NONE*, *REG*, *EJECT*)

div

Includes or excludes any valid specified division name(s).

ALL

Includes or excludes all divisions.

NONE

Includes or excludes no divisions.

REG

Includes or excludes those divisions belonging to zones.

EJECT

Causes a page eject at each new division.

ZONE

Includes or excludes only those divisions belonging to zones.

The default is DIV(*ALL*) or XDIV(*NONE*)

Note: *EJECT* must be either the last in the list or the only item.

ZONE or XZONE

Specifies those zones to be included or excluded from the chart.

ZONE|XZONE(zone, ..., *ALL*, *NONE*, *EJECT*)

zone

Includes or excludes any valid specified zone name(s).

ALL

Includes or excludes all zones.

NONE

Includes or excludes no zones.

EJECT

Causes a page eject at each new zone.

The default is ZONE(*ALL*) or XZONE(*NONE*)

PROF or XPROF

Specifies those profiles to be included (PROF) or excluded (XPROF) from the chart.

PROF|XPROF(profile, ..., *ALL*, *NONE*)

prof

Includes or excludes any valid specified profile name(s).

ALL

Includes or excludes all profiles.

NONE

Includes or excludes no profiles.

The default is PROF(*ALL*) or XPROF(*NONE*)

USER or XUSER

Specifies those user-level acids to be included or excluded from the chart.

USER|XUSER(acid, ..., *ALL*, *NONE*)

acid

Includes or excludes any valid specified user-level acidnames.

ALL

Includes or excludes all users.

NONE

Includes or excludes no users.

The default is USER(*ALL*) or XUSER(*NONE*)

Error messages and abend codes for TSSCHART can be found in the *Messages and Codes Guide*.

TSSCHART Sample Executions

An MSCA needs a listing of all ACIDs in the Security File as well as resource ownership. In addition, he wants to know the size of the ACID records on the Security File. He also would like page ejects on new divisions.

```
CHART(ACIDS,RESOURCE,SCA,LSCA,ZCA,VCA,DCA,STATS)
DIV(*EJECT*)
```

An SCA only wants a chart of all ACIDs in the Security File accompanied by the ACID record size. Separate pages are requested for each new division.

```
CHART(ACIDS,STATS)
DIV(*EJECT*)
```

An SCA needs to chart all departments not belonging to divisions.

```
CHART(ACIDS)
XDEPT(*DIV*)
```

A VCA decides to obtain a listing of data sets and volumes within his division.

```
CHART(RESOURCE)
RESOURCE(DATASET,VOLUME)
```

A VCA needs a chart containing only users in specific departments to which they belong.

```
CHART(ACIDS)
PROF(*NONE*)
DEPT(SYSTEMS)
```

An SCA wishes to list a particular division and the department(s) attached to it. He also needs all ACIDs and owned resources, who owns the resources, and the size of the ACID records of the Security File. A page eject will occur when a division is to be charted.

```
CHART(ACIDS,RESOURCE,VCA,DCA,STATS)
RESOURCE(ALL)
DIV(DEVLDIV *EJECT*)
DEPT(*DIV*)
```

This last sample will contain the actual output on the following page, along with a description of the specific blocks on the tree structure.

```

| +-----+
| | DEVLDIV (DIV) |
+-| DEVELOPMENT | -+
1 |              | |
  | RUSS)        | |
  |              | |

```

```

|   SIZE: 260 | |
+-----+ |
|
|
+-- <<< DEVLDIV  OWNS NO RESOURCES REQUESTED >>>
2 |
|
+-- (DATASET)  RUSS
|
| +-----+
| | ADMNDEVD (DEPT) |
+-+ | ADMIN DEVL DEPT | -+
3 | | RECORD SIZE 260 | |
| +-----+
|
|
+- <<< ADMNDEVD OWNS NO RESOURCES REQUESTED >>>
4 | |
+- (PROF) ADMNDEVP - ADMIN DEVL PROF <SIZE = 260>
5 | |
+- (USER) ADMNBAT - GENERIC ADMIN ID#2 <SIZE = 260>
+- (USER) CHAU - NGUYEN, CHAU <SIZE = 260>
+- (USER) KURHA01 - KURPIT, HALE <SIZE = 260>
+- (USER) NEWADMN - GENERIC ADMIN ID#1 <SIZE = 260>
6 +- (USER) RANVI01 - RANDAZZO, VINCENT <SIZE = 260>
+- (USER) VIC - FETTER, VICTOR <SIZE = 516>
+- (USER) ZARIR01 - ZAR, IRA <SIZE = 260>

```

Notes:

1. Division ACID, name of division, VCA ACID, and record size.
2. Resources owned by division as well as resources owned by VCA.
3. Department ACID, name of department, and record size.
4. Resources owned by department. Notice that TSSCHART informs you if no resources are owned that you requested.
5. Profile ACIDs, names of profiles, and record sizes.
6. User ACIDs, names of ACIDs, and record sizes.

Chapter 4: TSSAUDIT Utility

This section contains the following topics:

[About TSSAUDIT](#) (see page 45)

[TSSAUDIT JCL](#) (see page 46)

[Sample Control Statements](#) (see page 50)

About TSSAUDIT

The Batch utility program TSSAUDIT allows the auditor to monitor changes to the Security File. The type of security information depends upon the control statements selected. Each control statement is discussed in detail following a description of the JCL necessary to execute TSSAUDIT.

TSSAUDIT can be used to perform the following tasks:

- Run against a Recovery File that is not active.
- List changes made to the Security File. A change by a specified ACID or all changes can be listed, a date or range of dates, and a specified string, if desired.
- List Security File information about all ACIDs including attributes and privileges.
- Report on old format (pre-release 1.2) Audit files.

Note: Due to the large storage requirements of this job, which varies depending on the size of your recovery file, it is strongly recommended that the CA Top Secret service machine be a minimum of 24 meg in size and that only one request per run be used.

TSSAUDIT JCL

JCL for using TSSAUDIT in Batch is outlined below:

```
//TSSJOB      ACID=xxxxxx,PASSWORD=xxxxxxx  
//EXEC       PGM=TSSAUDIT[,PARM='control statement']  
             TSSAUDIT control statement(s)
```

Error messages and abend codes for TSSAUDIT can be found in the Messages and Codes Guide.

Control Statements

CHANGES

Lists changes made to the Security File. Requires ACID(REPORT) and RESOURCE(REPORT) authorities to run this function.

PRIVILEGES

Lists Security File information about all of the ACIDs. Requires ACID(REPORT,AUDIT) and RESOURCE(REPORT,AUDIT) authorities to run this function.

Control statements can be entered in the PARM field of the EXEC statement or as input control cards.

Each control statement is described below using the following syntax conventions:

- UPPERCASE characters must be entered as shown.
- Lowercase italicized characters represent user-specified variables that must be supplied.
- Optional parameters appear in brackets [].
- The | character denotes an OR condition (only one of the options can be supplied).

CHANGES Control Statement

Lists changes made to the Security File.

```
[CA(acid) ]
  CHANGES [DATE(-nn) ]
[STRING(string) ]
```

CA

Only those changes made by the specified control ACID are to be listed. If omitted, all changes are listed.

DATE

Only those changes made on or after the starting date are listed. The starting date to search the Recovery File is obtained by subtracting the number of days ('nn') from the current date. The value 'nn' can be any number from 00 to 99. If omitted, no date restrictions are applied.

STRING

Only those changes containing the specified string entries are listed.

Because TSSAUDIT reads the entire CA Top Secret Recovery File into memory when the CHANGES control statement is specified, the server's virtual storage size may need to be increased when the CHANGES control statement is specified. Insufficient storage is indicated by a 2719 abend.

Each record in the Recovery File is subjected to the following checks to determine if it meets your selection criteria.

- Was the change made within the period implied by the DATE operand? (If the DATE is omitted, all those changes made from the beginning date of the Recovery File are listed.)
- Was the change made by the ACID indicated in the CA operand? (This check is bypassed if the CA operand was omitted.)
- Is the change within your scope? (Only those changes within your scope will be listed.) For example, a VCA can list changes for her division, and all departments within her division.
- Does the change contain the string specified in the STRING operand? (This check is bypassed if the STRING operand was omitted.)

The following describes the information header line for CHANGES listing:

| Header | Explanation |
|---------|---|
| CHANGER | Lists the ACID name of the user that made the change. |
| DATE | Lists the date on which the change was |

| Header | Explanation |
|---------------|---|
| | made. (Date information appears in the form specified in CA Top Secret's DATE startup option.) |
| TIME | Lists the time at which the change was made. |
| SYSID | Lists the VMLOGID or SMF identifier of the CPU on which the change was made. |
| TYPE | Indicates the type of change: <ul style="list-style-type: none">■ CMND-TSS command■ PW-Password change■ AVO-Automatic Volume Ownership DUF-DUF UPD |
| COMMAND/IMAGE | Lists the TSS command used to make the change or a simulated TSS command for PW, AVO, DUF. |

If the CHANGES control statement is specified, and you are not the MSCA, you must have the following administrative authority:

TSS ADMIN (Auditor's acid) ACID(REPORT) RESOURCES(REPORT)

PRIVILEGES Control Statement

Lists Security File information about one or more ACIDs.

PRIVILEGES [SHORT]

SHORT

Information is listed only for those ACIDs that have administrative authority or any of the following attributes:

- ASUS-Administrative SUSPEND
- AUD-AUDIT attribute
- CONS-CONSOLE attribute
- DUFU-DUFUPD attribute
- DUFX-DUFXTR attribute
- GAP-GAP attribute on profile
- MRO-MRO attribute
- MPW-MULTIPW attribute
- NADS-NOADSP attribute
- NATS-NOATS attribute
- NDSN-NODSNCHK privilege
- NLCF-NOLCFCHK privilege
- NPWC-NOPWCHG attribute
- NRES-NORESCHK privilege
- NSUB-NOSUBCHK privilege
- NSUS-NOSUSPEND privilege
- NVMD-NOVMDCHK privilege
- NVOL-NOVOLCHK privilege
- OID-OIDCARD attribute
- PSUS-Password SUSPEND
- SUSP-SUSPEND ACID
- TMPW-TSOMPW attribute
- TRA-TRACE attribute
- VSUS-Violation SUSPEND
- XSUS-Installation Exit SUSPEND

The listing produced by the PRIVILEGES control statement contains the following information:

| Header | Explanation |
|-------------------------|---|
| ACIDNAME | Lists security information for the specified ACID. |
| TYPE | Lists the type of ACID record. |
| ATTRIBUTES & PRIVILEGES | Lists any of the above-mentioned attributes that the ACID might have. If the ACID has administrative authority, *ADMIN* will appear in the last column. |

In the listing produced by the PRIVILEGES control statement, underlining of attributes indicates that the attributes are in a profile to which the specified ACID is attached.

If the PRIVILEGES control statement is specified, you must be the MSCA or have the following administrative authority:

```
TSS ADMIN (Auditor's acid) ACID(REPORT,AUDIT)
      RESOURCES(REPORT,AUDIT)
INCOMING PARAMETER ==>      PRIVILEGES SHORT
```

Sample Control Statements

All Security File changes made in the past 30 days by the ACID named SCA01 are listed:

```
//TSSJOB ACID=SCA01,PASSWORD=XXXXX
//EXEC PGM=TSSAUDIT
      CHANGES DATE(-30)
```

All Security File privileges that included the string "operator" are listed. Note that the PRIVILEGES control statement is specified in the PARM field.

```
//TSSJOB ACID=SCA01,PASSWORD=xxxxxxxx
//EXEC TSSAUDIT,PARM='PRIVILEGES STRING(OPERATOR)'
```

Chapter 5: TSSCFILE Utility

This section contains the following topics:

[Scope and Authority](#) (see page 51)

[About TSSCFILE](#) (see page 51)

[JCL Requirements](#) (see page 52)

[Samples of Formatted Security File Records](#) (see page 54)

[Formatted Record Types](#) (see page 58)

[Record Types Summary](#) (see page 89)

[TSSCFILE Condition Codes](#) (see page 98)

Scope and Authority

All scope and administrative authority restrictions are honored by this utility, thereby preventing unauthorized access to the Security File.

In order to execute TSSCFILE, you must have or be given the following administrative authorities via the TSS ADMIN function:

```
TSS ADMIN(acid) ACID(REPORT) DATA(authority level(s))
```

or

```
TSS ADMIN(acid) RESOURCE(REPORT) DATA(authority level(s))
```

About TSSCFILE

TSSCFILE is a batch utility that gives the user the ability to produce customized reports with information extracted from the Security File. By specifying the TSS LIST, TSS WHOOWNS, TSS WHOHAS and the TSS WHOAMI command(s) as input to the utility, you can select information desired from the Security File.

The utility parses the output of the particular TSS informational retrieval commands (LIST, WHOOWNS, WHOHAS and WHOAMI) and produces a file of fixed format records which, in turn, can be used to generate customized reports using any report writing utility or customer-written program.

JCL Requirements

When creating a TSSCFILE job, you may specify one or more TSS LIST commands that are needed to extract the data required for your application. The following is a sample TSSCFILE job:

```
//TSSJOB ACID=SECADMIN,PASSWORD=ILUVTSS
//EXEC  PGM=TSSCFILE
        TSS LIST(ACIDS) DEPT(PAYROLL) DATA(PROFILE,XAUTH)
        TSS LIST(APPLMGR) DATA(ADMIN)
        .
        .
        .
```

When the TSSCFILE job completes, print (PRT) and punch (PUN) files are returned to your virtual reader:

- The PRT file contains the TSSCFILE job log which should be checked for errors.
- The PUN file contains the requested data in TSSCFILE internal-format.

Note: CA does not recommend the use of these internal-format records by your application programs. The format of these records are subject to change without notice.

If a program other than TSSREPT will be used to process the records, a second step is required to convert records to external-format TSSCFILE records in a CMS file once the PUN file has been returned to your reader. To perform this step, use the TSSCFILA command as follows:

```
TSSCFILA jobid <filename <filetype <filemode>>> <(REPlace>
```

jobid

The TSSCFILE job number that was assigned to the job by the server during execution. You can obtain the jobid by entering a "QUERY READER * ALL" command and examining the NAME field which will be in the form, TSSJnnnn. The value for nnnn should be used as the jobid. This parameter is required.

filename

The filename of the CMS file that is to contain the external-format TSSCFILE records. The default is TSSJnnnn where nnnn is the value specified for jobid.

filetype

The filetype of the CMS file that is to contain the external-format TSSCFILE records. The default is TSSCFILE.

filemode

The filemode of the CMS file that is to contain the external-format TSSCFILE records. The default is A.

REPlace

Indicates that if the CMS file already exists, it should be replaced.

Return Code Definitions**0**

Successful completion

24

Invalid command specification

28

No reader file of type PUN found for this jobidor the CMS file already exists

32

Invalid reader file format or error in reader file data

1xxx

Return code from CMS file system error

Samples of Formatted Security File Records

TSSCFE generates a fixed format record for each data line produced by the TSS LIST command(s). Each record contains a four to six character record identifier.

All records are described in this section using the following format: start column, end column, field length, and description.

For example:

| FIELD START COL | FIELD END COL | FIELD LENGTH | DESCRIPTION |
|-----------------------|---------------------|-----------------|-------------|
| 33 | 52 | 20 | NAME |

The following record heading is standard on all records:

| | | | |
|----|----|----|--------------------|
| 1 | 2 | 2 | RESERVED |
| 3 | 4 | 2 | RESERVED |
| 5 | 8 | 4 | RECORD ID 1 |
| 9 | 10 | 2 | RECORD ID 2 |
| 11 | 11 | 1 | CONTINUE FLAG: "C" |
| 12 | 14 | 3 | RESERVED |
| 15 | 22 | 8 | ACID |
| 23 | 32 | 10 | RESERVED |

Note: The record IDs and the continue flags are discussed on the following page.

Each record of a TSSCFE output is described within a boxed area as follows:

```

      ---1--      2
-----|-----|-----|-----
|  v    v    v          |
|  ID:  0100 "NAME    =" |
|  33   52   32      NAME |
-----|-----|-----|-----
      |   |   |   |
      3   4   5   6
    
```

Note the following items:

- Indicates the ID associated with this type of TSSCFE output record. The record ID is four to six positions in length and is part of the record header. The first four positions identify the record ID. If displayed, positions five and six identify the hexadecimal code representing the resource being listed.

- Indicates the keyword that identifies the type of information found on the TSS information retrieval command output. This keyword is also found with each TSSCFILE record description and its associated ID. The actual printed output of TSSCFILE does not show keywords (e.g., "NAME=").
- Indicates the starting column of the field containing information within a specific TSSCFILE record--column 33 in this example. The record header comprises the first 32 characters.
- Indicates the ending column of the field--column 52 in this example.
- Indicates the length of the field--32 characters in this example.
- Indicates the information found within the specific column positions.

A record ID can have more than one field described. (See record ID 0500 as an example.)

All fields within a printed TSSCFILE record output are left justified.

See Formatted Record Types for descriptions of all formatted records.

An illustration of the output of a CA Top Secret information retrieval command and how TSSCFILE formats the same output to the PRINT data set follows.

```

READY
  TSS LIST(USER02) DATA(ALL,PAS)
ACCESSORID = USER02   NAME           = TEST ACID
TYPE        = USER    SIZE           =      512 BYTES
DEPT ACID   = TESTDEPT DEPARTMENT    = TEST DEPARTMENT
DIV ACID    = TESTDIV  DIVISION      = TEST DIVISION
CREATED     = mm/dd/yy LAST MOD      = mm/dd/yy 08:52
XA TSOACCT  = 11111111                                     OWNER(BOBBBY01 )
XA TSOAUTH  = CONSOLE                                       OWNER(BOBBBY01 )
XA TSOAUTH  = JCL                                           OWNER(BOBBBY01 )
XA TSOPROC  = TSOPROC                                       OWNER(BOBBBY01 )
INSTDATA   = 739-4001
----- SEGMENT TSO
TSOCOMMAND = ISPF
TSODEFPRFG = 255
TSODEST    = LOCALC
TSOHCLASS  = X
TSOJCLASS  = A
TSOLACCT   = 11111111
TSOLPROC   = TSOPROC
TSOLSIZE   = 0002048
TSOMCLASS  = X
TSOMSIZE   = 0004096
TSOOPT     = MAIL,NOTICES
TSOSCLASS  = *
TSOUDATA   = ABCD
TSOUNIT    = SYSDA
    
```

PASSWORD =

TSS0300I LIST FUNCTION SUCCESSFUL
TSSCFILE

PAGE 1

TSS LIST(USER02) DATA(ALL)

TSSCFILE SECURITY FILE DATA

3

<.....HEADING.....><...+...1...+...2...+...3...+...4...+...5
...+...6...+...7...+...8...

```

<0001                ><TSS LIST(USER02) DATA(ALL)>
<0100    USER02      ><TEST-USER>
<0200    USER02      ><USER>
1  <0300    USER02      ><APPCDEPTAPPC DEPT>
   <0500    2  USER02    ><01/30/9502/02/9512:48>
   <170087   USER02      ><TSOACCT 11111111>
   <170088   USER02      ><TSOAUTH CONSOLE>
   <170088   USER02      ><TSOAUTH JCL>
4  <170089   USER02      ><TSOPROC TSOPROC>
   <2600    USER02      ><021INSTDATA=739-4001
   <
   <
   <4010    USER02      >>Unicenter TSreorg for Oracle
   <3508    USER02      >><ISPF>
   <3506    USER02      >><255>
   <3509    USER02      >><LOCALC>
   <3510    USER02      >><X>
   <3502    USER02      >>Action:
   <3501    USER02      >><12345678>
   <3500    USER02      >><TSOPROC>
   <3504    USER02      >><0002048>
   <3503    USER02      >><X>
   <3511    USER02      >><0004096>
   <3507    USER02      >><NOMAIL NONOTICES>
   <3512    USER02      >><*>
5  <3505    USER02      5  >><ABCD>
   <3513    USER02      >><SYSDA> 6

```

The following is the legend for the numbered items in the TSSCFILE Format Records example.

Record ID which contains TSSCFE output information associated with a specific data line of a TSS LIST command. In other words, record ID 0200 is associated with the information found in "TYPE=" of the TSS LIST command data line.

ACID associated with the TSS LIST command found in record ID 0001. Numbers 1 and 2 are found in the record heading.

Indicates the starting column on the grid for significant information within a TSSCFE printed output, which is column 33. (It can also be considered as relative position 1.)

Record IDs 170087 thru 170089 indicate the TSO-related resources that the ACID is allowed to access.

The record heading is delimited by less than (<) and greater than (>) signs. They are placed one position before and one position after the 32-character length of the record heading.

Delimiters are also used here to show the length of potential significant information within the bounds of the data portion of a TSSCFE record.

Note: Blanks will be supplied for any field that does not contain data. If a "C" appears after a record ID as part of the record heading, it indicates that the following record will continue the current record.

Formatted Record Types

All formatted records are described within boxed areas. When any formatted record appears on TSSCFE output, it simply contains the desired information and not the keyword used to identify the particular data line on a TSS information retrieval command (e.g., "NAME =", "TYPE =", etc.). Also, the TSSCFE output merely supplies the specific information in the designated column positions for each field. For example, when record ID 0500 appears as TSSCFE output, it will only contain the actual dates for when it was created, modified, etc., and not the descriptors such as: DATE CREATED, DATE MODIFIED, etc.

| | | | |
|-----|------|------------|----------------------|
| ID: | 0001 | | DATA DELIMITER |
| 33 | 112 | 80 | TSS LIST COMMAND |
| ID: | 0100 | "NAME | =" |
| 33 | 64 | 32 | NAME |
| ID: | 0200 | "TYPE | =" |
| 33 | 40 | 8 | ACID TYPE |
| 41 | 48 | 8 | ACID SIZE |
| ID: | 0300 | "DEPT ACID | =" |
| 33 | 40 | 8 | DEPT ACID |
| 41 | 72 | 32 | DEPT NAME |
| ID: | 0400 | "DIV ACID | =" |
| 33 | 40 | 8 | DIV ACID |
| 41 | 72 | 32 | DIV NAME |
| ID: | 0450 | "ZONE ACID | =" |
| 33 | 40 | 8 | ZONE ACID |
| 41 | 72 | 32 | ZONE NAME |
| ID: | 0500 | "CREATED | =" |
| 33 | 40 | 8 | DATE CREATED |
| 41 | 48 | 8 | DATE LAST MODIFIED |
| 49 | 53 | 5 | TIME LAST MODIFIED |
| 54 | 58 | 5 | TIME CREATED |
| ID: | 0501 | "EXPIRES | =" |
| 33 | 40 | 8 | DATE OF EXPIRE |
| ID: | 0502 | "SUSPENDED | =" |
| 33 | 40 | 8 | DATE SUSPENSION ENDS |
| ID: | 0600 | "PROFILES | =" |
| 33 | 40 | 8 | PROFILE ACID |
| 41 | 48 | 8 | PROFILE UNTIL DATE |
| ID: | 0650 | "GROUPS | =" |
| 33 | 40 | 8 | GROUP ACID |

| | | | |
|-----|------|------|--------------------|
| 41 | 48 | 8 | GROUP UNTIL DATE |
| ID: | 0675 | "FCT | =" |
| 33 | 40 | 8 | FCT/PREFIX (OWNED) |
| 42 | 49 | 8 | FCT/PREFIX (OWNED) |
| 51 | 58 | 8 | FCT/PREFIX (OWNED) |
| 60 | 67 | 8 | FCT/PREFIX (OWNED) |
| 69 | 76 | 8 | FCT/PREFIX (OWNED) |

| | | | |
|-----|------|---------------|------------|
| ID: | 0700 | "ATTRIBUTES=" | |
| 33 | 40 | 8 | "MULTIPW " |
| 41 | 48 | 8 | "NOADSP " |
| 49 | 56 | 8 | "AUDIT " |
| 57 | 64 | 8 | "NOPWCHG " |
| 65 | 72 | 8 | "OIDCARD " |
| 73 | 80 | 8 | "TRACE " |
| 81 | 88 | 8 | "SUSPEND " |
| 89 | 96 | 8 | "MRO " |
| 97 | 104 | 8 | "CONSOLE " |
| 105 | 112 | 8 | "GAP " |
| 113 | 120 | 8 | "DUFSTR " |
| 121 | 128 | 8 | "DUFUPD " |
| 129 | 136 | 8 | "TSOMPW " |
| 137 | 144 | 8 | "NOATS " |
| 145 | 152 | 8 | "ACEDEFAU" |
| 153 | 160 | 8 | "ASUSPEND" |
| 161 | 168 | 8 | "VSUSPEND" |
| 169 | 176 | 8 | "XSUSPEND" |
| 177 | 184 | 8 | "PSUSPEND" |

Note: These fields are position-dependent. If a field is blank, it indicates that the ACID does not possess this particular attribute.

| | | | |
|-----|------|---------------|------------|
| ID: | 0800 | "BYPASSING =" | |
| 33 | 40 | 8 | "NODSNCHK" |
| 41 | 48 | 8 | "NOVOLCHK" |
| 49 | 56 | 8 | "NOLCFCHK" |
| 57 | 64 | 8 | "NOSUBCHK" |
| 65 | 72 | 8 | "NORESCHK" |
| 73 | 80 | 8 | "NOVMDCHK" |
| 81 | 88 | 8 | "NOSUSPEN" |

Note: These fields are position-dependent. If a field is blank, it indicates that the ACID does not possess this particular attribute.

| | | | |
|-----|------|---------------|--------------------------|
| ID: | 0900 | "LAST USED =" | |
| 33 | 40 | 8 | DATE LAST USED: MM/DD/YY |
| 41 | 45 | 5 | TIME LAST USED: HH.MM |
| 46 | 49 | 4 | CPU |
| 50 | 57 | 8 | FAC |

| | | | |
|-----|------|---------------|--------------------------------|
| 58 | 62 | 5 | COUNT |
| ID: | 1000 | "MASTER FAC=" | |
| 33 | 40 | 8 | MASTER FACILITY |
| ID: | 1100 | "LOCK TIME =" | |
| 33 | 37 | 5 | LOCK TIME (MINUTES) OR "NEVER" |
| 38 | 45 | 8 | LOCK TIME FACILITY |
| ID: | 1200 | "LANGUAGE =" | |
| 33 | 33 | 1 | LANGUAGE PREFERENCE CODE |
| ID: | 1300 | "TIME ZONE =" | |
| 33 | 35 | 3 | TIME ZONE+ or - NN |
| ID: | 1400 | "DSN/PREFIX=" | |
| 33 | 58 | 26 | DSN/PREFIX(OWNED) |
| 59 | 86 | 26 | DSN/PREFIX(OWNED) |
| ID: | 1500 | "VOLUMES =" | |
| 33 | 38 | 6 | VOLSER(OWNED) |
| 39 | 40 | 2 | ATTRIBUTES |
| 41 | 46 | 6 | VOLSER(OWNED) |
| 47 | 48 | 2 | ATTRIBUTES |
| ID: | 1600 | "VMDISKS =" | |
| 33 | 45 | 13 | VMDISK |
| 46 | 58 | 13 | VMDISK |
| ID: | 1700 | "RESOURCE =" | |
| 33 | 40 | 8 | RESOURCE CLASS NAME |
| 41 | 48 | 8 | RESOURCE ENTITY |
| 46 | 56 | 8 | RESOURCE ENTITY |
| 57 | 64 | 8 | RESOURCE ENTITY |
| 65 | 72 | 8 | RESOURCE ENTITY |
| 73 | 80 | 8 | RESOURCE ENTITY |
| ID: | 1800 | "RESOURCE =" | |
| 33 | 40 | 8 | RESOURCE CLASS NAME |
| 41 | 66 | 26 | RESOURCE ENTITY |
| 67 | 92 | 26 | RESOURCE ENTITY |
| ID: | 1900 | "WHOOWNS =" | |
| 33 | 40 | 8 | RESOURCE CLASS |
| 41 | 48 | 8 | OWNING ACID |
| 49 | 92 | 44 | RESOURCE ENTITY |
| ID: | 1950 | "WHOHAS =" | |
| 33 | 40 | 8 | RESOURCE CLASS |
| 41 | 48 | 8 | OWNING ACID |
| 49 | 92 | 44 | RESOURCE ENTITY |

| | | | |
|-----|------|---|-------------------------------------|
| ID: | 1975 | | WHOHAS FACILITY Information |
| 33 | 40 | 8 | literal "FACILITY" |
| 44 | 51 | 8 | ACID NAME HAVING REQUESTED FACILITY |
| 52 | 59 | 8 | "UNTIL" DATE, IF ANY |
| 60 | 67 | 8 | FACILITY NAME |

| | | | |
|-----|------|---|---------------------------|
| ID: | 2001 | | "XA ACID =" |
| 33 | 40 | 8 | XAUTH RESOURCE CLASS NAME |
| 41 | 48 | 8 | XAUTH OWNER ACID |
| 49 | 56 | 8 | XAUTH UNTIL DATE |
| 57 | 64 | 8 | XAUTH ACID |

Note: The term "entity" refers to the name of the resource within that resource class. (i.e., DSNAME abc.data)

| | | | |
|-----|------|----|---------------------------|
| ID: | 2002 | | "XA DATASET=" |
| 33 | 40 | 8 | XAUTH RESOURCE CLASS NAME |
| 41 | 48 | 8 | XAUTH OWNER ACID |
| 49 | 56 | 8 | XAUTH UNTIL DATE |
| 57 | 102 | 46 | XAUTH DATA SET |

| | | | |
|-----|------|---|---------------------------|
| ID: | 2003 | | "XA VOLUME =" |
| 33 | 40 | 8 | XAUTH RESOURCE CLASS NAME |
| 41 | 48 | 8 | XAUTH OWNER ACID |
| 49 | 56 | 8 | XAUTH UNTIL DATE |
| 57 | 62 | 6 | XAUTH VOLSER |
| 63 | 64 | 2 | ATTRIBUTES |

| | | | |
|-----|------|----|---------------------------|
| ID: | 2004 | | "XA MINIDISK=" |
| 33 | 40 | 8 | XAUTH RESOURCE CLASS NAME |
| 41 | 48 | 8 | XAUTH OWNER ACID |
| 49 | 56 | 8 | XAUTH UNTIL DATE |
| 57 | 69 | 13 | XAUTH MINIDISK |

| | | | |
|-----|------|----|---------------------------|
| ID: | 2005 | | "XA xxxxxxx=" |
| 33 | 40 | 8 | XAUTH RESOURCE CLASS NAME |
| 41 | 48 | 8 | XAUTH OWNER ACID |
| 49 | 56 | 8 | XAUTH UNTIL DATE |
| 57 | 100 | 44 | XAUTH RESOURCE |

Note: The x's refer to resource names defined in the RDT.

| | | | |
|-----|------|-----|-------------------------|
| ID: | 2006 | | "XAUTH DIRECTRY=" |
| 33 | 40 | 8 | "DIRECTRY" |
| 41 | 48 | 8 | XAUTH OWNER ACID |
| 49 | 56 | 8 | XAUTH UNTIL DATE |
| 57 | 225 | 169 | XAUTH'D DIRECTORY ENTRY |

| | | | |
|-----|------|---|---------------------------|
| ID: | 2007 | | "WHOHAS XAUTH" |
| 33 | 40 | 8 | XAUTH RESOURCE CLASS NAME |
| 41 | 48 | 8 | XAUTH PERMITTED ACID |

| | | | | |
|-----|------|----|------------|---------------------------|
| 49 | 56 | 8 | | XAUTH UNTIL DATE |
| 57 | 64 | 8 | | XAUTH RESOURCE OWNER |
| 65 | 109 | 46 | | XAUTH DATA SET |
| ID: | 2008 | | | "WHOHAS ADMIN" |
| 33 | 40 | 8 | | XAUTH RESOURCE CLASS NAME |
| 41 | 48 | 8 | | XAUTH OWNER ACID |
| 49 | 56 | 8 | | XAUTH UNTIL DATE |
| 57 | 102 | 46 | | XAUTH DATA SET |
| ID: | 2009 | | | "XAUTH SFSCMD=" |
| 33 | 40 | 8 | | "SFSCMD" |
| 41 | 48 | 8 | | XAUTH OWNER ACID |
| 49 | 56 | 8 | | XAUTH UNTIL DATE |
| 57 | 73 | 17 | | XAUTH'd SFSCMD entry |
| ID: | 2011 | | "ACCESS =" | XAUTH ACCESS LEVELS |
| 33 | 40 | 8 | | "NONE " |
| 41 | 48 | 8 | | "ALL " |
| 49 | 56 | 8 | | "READ " |
| 57 | 64 | 8 | | "WRITE " |
| 65 | 72 | 8 | | "UPDATE " |
| 73 | 80 | 8 | | "FETCH " |
| 81 | 88 | 8 | | "CREATE " |
| 89 | 96 | 8 | | "NOCREATE" |
| 97 | 104 | 8 | | "SCRATCH " |
| 105 | 112 | 8 | | "CONTROL " |
| 113 | 120 | 8 | | "BLP " |
| 121 | 128 | 8 | | "FEOV " |
| 129 | 136 | 8 | | "PURGE " |
| 137 | 144 | 8 | | "DELETE " |
| 145 | 152 | 8 | | "BROWSE " |
| 153 | 160 | 8 | | "REPLACE " |
| 161 | 168 | 8 | | "CONSOLE " |
| 169 | 176 | 8 | | "DIAGNOSE" |
| 177 | 184 | 8 | | "INQUIRE " |
| 185 | 192 | 8 | | "SET " |
| 193 | 200 | 8 | | "EXECUTE " |
| 201 | 208 | 8 | | "PERFORM " |
| 209 | 216 | 8 | | "DISCARD " |
| 217 | 224 | 8 | | "ALTER " |
| 225 | 232 | 8 | | "INDEX " |
| 233 | 240 | 8 | | "INSERT " |
| 241 | 248 | 8 | | "USE " |
| 249 | 256 | 8 | | user-defined access level |

Note: These fields are position-dependent. If a field is blank, it indicates that the ACID does not have the particular authorized access level. Record 2011 has also been stabilized and will no longer be updated for additional access levels. You should use record 2021 instead.

Any record identifiers from 2011 to 2016 can follow any record identifiers from 2001 to 2005.

| | | | | |
|-----|------|-------|----|-------------|
| ID: | 2012 | "DAYS | =" | XAUTH DAYS |
| 33 | 35 | 3 | | "ALL" |
| 36 | 38 | 3 | | "MON" |
| 39 | 41 | 3 | | "TUE" |
| 42 | 44 | 3 | | "WED" |
| 45 | 47 | 3 | | "THU" |
| 48 | 50 | 3 | | "FRI" |
| 51 | 53 | 3 | | "SAT" |
| 54 | 56 | 3 | | "SUN" |
| 57 | 61 | 5 | | XAUTH TIMES |

Note: These fields are position-dependent. If a field is blank, it indicates that the ACID is not authorized for the particular day.

| | | | | |
|-----|------|----------|----|---------------|
| ID: | 2013 | "LIBRARY | =" | XAUTH LIBRARY |
| 33 | 78 | 46 | | |

| | | | | |
|-----|------|----------|----|----------------|
| ID: | 2014 | "PRIVPGM | =" | XAUTH PRIVPGM |
| 33 | 40 | 8 | | "G" IF GENERIC |
| 41 | 41 | 1 | | XAUTH PRIVPGM |
| 42 | 49 | 8 | | "G" IF GENERIC |
| 50 | 50 | 1 | | XAUTH PRIVPGM |
| 51 | 58 | 8 | | "G" IF GENERIC |
| 59 | 59 | 1 | | XAUTH PRIVPGM |
| 60 | 67 | 8 | | "G" IF GENERIC |
| 68 | 68 | 1 | | XAUTH PRIVPGM |
| 69 | 76 | 8 | | "G" IF GENERIC |
| 77 | 77 | 1 | | XAUTH PRIVPGM |

| | | | | |
|-----|------|------|----|---------------|
| ID: | 2015 | "FAC | =" | AUTH FAC |
| 33 | 40 | 8 | | FACILITY NAME |
| 41 | 48 | 8 | | FACILITY NAME |
| 49 | 56 | 8 | | FACILITY NAME |
| 57 | 64 | 8 | | FACILITY NAME |
| 65 | 72 | 8 | | FACILITY NAME |
| 73 | 80 | 8 | | FACILITY NAME |
| 81 | 88 | 8 | | FACILITY NAME |
| 89 | 96 | 8 | | FACILITY NAME |
| 97 | 104 | 8 | | FACILITY NAME |
| 105 | 112 | 8 | | FACILITY NAME |

| | | | | |
|-----|------|---------|----|------------|
| ID: | 2016 | "ACTION | =" | |
| 33 | 40 | 8 | | "FAIL " |
| 41 | 48 | 8 | | "DENY " |
| 49 | 56 | 8 | | "AUDIT " |
| 57 | 64 | 8 | | "NOTIFY " |
| 65 | 72 | 8 | | "PASSWORD" |
| 73 | 80 | 8 | | "NODSN " |

| | | | |
|-----|-----|---|------------|
| 81 | 88 | 8 | "EXIT " |
| 89 | 96 | 8 | "REVERIFY" |
| 97 | 104 | 8 | "VMPRIV " |
| 105 | 112 | 8 | "XAUTO-ON" |

Note: These fields are position-dependent. If the field is blank, the ACID does not have this particular parameter of the ACTION keyword.

| | | | |
|-----|------|-------------------|---------------------|
| ID: | 2017 | "VMUSER | =" |
| 33 | 40 | 8 | XAUTH VMUSER |
| 41 | 41 | 1 | "G" IF GENERIC |
| 42 | 49 | 8 | XAUTH VMUSER |
| 50 | 50 | 1 | "G" IF GENERIC |
| 51 | 58 | 8 | XAUTH VMUSER |
| 58 | 58 | 1 | "G" IF GENERIC |
| 59 | 66 | 8 | XAUTH VMUSER |
| 67 | 67 | 1 | "G" IF GENERIC |
| 68 | 75 | 8 | XAUTH VMUSER |
| 76 | 76 | 1 | "G" IF GENERIC |
| ID: | 2018 | "FILE | =" |
| 33 | 49 | 17 | FILE RESTRICTION |
| ID: | 2019 | "POOL RESTRICTION | =" |
| 33 | 40 | 8 | POOL RESTRICTION |
| 41 | 48 | 8 | POOL RESTRICTION |
| 49 | 56 | 8 | POOL RESTRICTION |
| 57 | 64 | 8 | POOL RESTRICTION |
| 65 | 72 | 8 | POOL RESTRICTION |
| ID: | 2021 | "ACCESS | =" |
| 33 | 40 | 8 | XAUTH ACCESS LEVELS |
| 41 | 48 | 8 | Access Level |
| 49 | 56 | 8 | Access Level |
| 57 | 64 | 8 | Access Level |
| 65 | 72 | 8 | Access Level |

Note: These access levels are not position dependent.

| | | | |
|-----|------|-----------|-----------------------------|
| ID: | 2022 | "ADMIN BY | =" |
| 33 | 40 | 8 | ADMINISTERING ACID |
| 41 | 44 | 4 | DONE ON THIS SMFID |
| 45 | 54 | 10 | DATE ADMIN'D MM/DD/YYYY |
| 55 | 63 | 8 | TIME ADMIN'D HH:MM:SS |
| ID: | 2023 | "DAY/TIME | =" |
| 33 | 40 | 8 | NAME OF CALENDAR TO BE USED |
| 41 | 48 | 8 | NAME OF TIMEREC TO BE USED |
| ID: | 2024 | "RESTRICT | =" |
| 33 | 40 | 8 | NAME OF MAPREC TO BE USED |

| | | | |
|-----|------|-----------|--------------------------------|
| 41 | 48 | 8 | NAME OF SELECT(IN) TO BE USED |
| 49 | 56 | 8 | NAME OF SELECT(OUT) TO BE USED |
| ID: | 2025 | "RESTRICT | =" |
| 33 | 40 | 8 | NAME OF MASKREC TO BE USED |
| 41 | 48 | 8 | NAME OF SELECT(IN) TO BE USED |
| 49 | 56 | 8 | NAME OF SELECT(OUT) TO BE USED |
| ID: | 2026 | "SYSID | =" |
| 33 | 36 | 4 | SYSID RESTRICTION |
| ID: | 2027 | "APPLDATA | =" |
| 33 | 40 | 8 | SYSTEMVIEW APPLDATA VALUE |
| ID: | 2028 | "SCRIPTIN | =" |
| 33 | 40 | 8 | SYSTEMVIEW SCRIPTIN VALUE |
| ID: | 2029 | "SCRIPTIP | =" |
| 33 | 40 | 8 | SYSTEMVIEW SCRIPTIP VALUE |
| ID: | 2030 | "ATTRIB | =" |
| 33 | 39 | 7 | NONMASK |
| ID: | 2100 | "FACILITY | =" |
| 33 | 40 | 8 | FACILITY |

Note: Record identifiers 2100 to 2102 refer to the Limited Command Facility (LCF).

| | | | |
|-----|------|------------|---|
| ID: | 2101 | "AUTH CMDS | =" |
| | | | IF PRESENT, THIS RECORD ALWAYS FOLLOWS RECORD 2100. |
| 33 | 40 | 8 | AUTHORIZED COMMANDS |
| 41 | 41 | 1 | COMMAND FLAG |
| 42 | 49 | 8 | AUTHORIZED COMMANDS |
| 50 | 50 | 1 | COMMAND FLAG |
| 51 | 58 | 8 | AUTHORIZED COMMANDS |
| 59 | 59 | 1 | COMMAND FLAG |
| 60 | 67 | 8 | AUTHORIZED COMMANDS |
| 68 | 68 | 1 | COMMAND FLAG |

Note: The one-character flag will either be V for password reverify or G for generic prefix.

| | | | |
|-----|------|------------|---|
| ID: | 2102 | "EXMP CMDS | =" |
| | | | IF PRESENT, THIS RECORD ALWAYS FOLLOWS RECORD 2100. |
| 33 | 40 | 8 | EXEMPT COMMANDS |
| 41 | 41 | 1 | COMMAND FLAG |
| 42 | 49 | 8 | EXEMPT COMMANDS |
| 50 | 50 | 1 | COMMAND FLAG |
| 51 | 58 | 8 | EXEMPT COMMANDS |

| | | | |
|----|----|---|-----------------|
| 59 | 59 | 1 | COMMAND FLAG |
| 60 | 67 | 8 | EXEMPT COMMANDS |
| 68 | 68 | 1 | COMMAND FLAG |

Note: The one-character flag will either be V for password reverify or G for generic prefix.

| | | | |
|-----|------|----------|-----------------|
| ID: | 2200 | "SOURCES | =" |
| 33 | 40 | 8 | SOURCES |
| 41 | 48 | 8 | SOURCES |
| 49 | 56 | 8 | SOURCES |
| 57 | 64 | 8 | SOURCES |
| ID: | 2300 | "OPIDENT | =" |
| 33 | 35 | 3 | OPIDENT |
| 36 | 38 | 3 | OPPRTY |
| ID: | 2301 | "SITRAN | =" |
| 33 | 40 | 8 | SITRAN |
| 41 | 48 | 8 | SITRAN FACILITY |
| ID: | 2400 | "OPCLASS | =" |
| 33 | 34 | 2 | OPCLASS |
| 35 | 36 | 2 | OPCLASS |
| 37 | 38 | 2 | OPCLASS |
| 39 | 40 | 2 | OPCLASS |
| 41 | 42 | 2 | OPCLASS |
| 43 | 44 | 2 | OPCLASS |
| 45 | 46 | 2 | OPCLASS |
| 47 | 48 | 2 | OPCLASS |
| 49 | 50 | 2 | OPCLASS |
| 51 | 52 | 2 | OPCLASS |
| 53 | 54 | 2 | OPCLASS |
| 55 | 56 | 2 | OPCLASS |
| 57 | 58 | 2 | OPCLASS |
| 59 | 60 | 2 | OPCLASS |
| 61 | 62 | 2 | OPCLASS |
| 63 | 64 | 2 | OPCLASS |
| 65 | 66 | 2 | OPCLASS |
| 67 | 68 | 2 | OPCLASS |
| 69 | 70 | 2 | OPCLASS |
| 71 | 72 | 2 | OPCLASS |
| 73 | 74 | 2 | OPCLASS |
| 75 | 76 | 2 | OPCLASS |
| 77 | 78 | 2 | OPCLASS |
| 79 | 80 | 2 | OPCLASS |
| ID: | 2500 | "SCTYKEY | =" |
| 33 | 35 | 3 | SCTYKEY |
| 36 | 38 | 3 | SCTYKEY |
| 39 | 41 | 3 | SCTYKEY |

| | | | |
|-----|------|-----------|---------------------------|
| 42 | 44 | 3 | SCTYKEY |
| 45 | 47 | 3 | SCTYKEY |
| 48 | 50 | 3 | SCTYKEY |
| 51 | 53 | 3 | SCTYKEY |
| 54 | 56 | 3 | SCTYKEY |
| 57 | 59 | 3 | SCTYKEY |
| 60 | 62 | 3 | SCTYKEY |
| 63 | 65 | 3 | SCTYKEY |
| 66 | 68 | 3 | SCTYKEY |
| 69 | 71 | 3 | SCTYKEY |
| 72 | 74 | 3 | SCTYKEY |
| 75 | 77 | 3 | SCTYKEY |
| 78 | 80 | 3 | SCTYKEY |
| | | | |
| ID: | 2600 | "INSTDATA | =" |
| 33 | 35 | 3 | LENGTH OF INSTDATA |
| 36 | 290 | 255 | INSTDATA |
| | | | |
| ID: | 2700 | "USER | =" |
| 33 | 40 | 8 | USER DEFINED RESOURCE |
| 41 | 41 | 1 | TYPE |
| 42 | 49 | 8 | USER DEFINED RESOURCE |
| 50 | 50 | 1 | TYPE |
| 51 | 58 | 8 | USER DEFINED RESOURCE |
| 59 | 59 | 1 | TYPE |
| 60 | 67 | 8 | USER DEFINED RESOURCE |
| 68 | 68 | 1 | TYPE |
| | | | |
| ID: | 2800 | "ACIDS | =" |
| 33 | 40 | 8 | ACID WITHIN DEPT/DIV/ZONE |
| 41 | 42 | 2 | ACID TYPE |
| 43 | 50 | 8 | ACID WITHIN DEPT/DIV/ZONE |
| 51 | 52 | 2 | ACID TYPE |
| 53 | 60 | 8 | ACID WITHIN DEPT/DIV/ZONE |
| 61 | 62 | 2 | ACID TYPE |
| 63 | 70 | 8 | ACID WITHIN DEPT/DIV/ZONE |
| 71 | 72 | 2 | ACID TYPE |

Note: The one- or two-character value for ACID TYPE can be any of the following:

- P-Profile
- VC-VCA
- V-VCA or DIV ACID
- DC-DCA
- D-DCA or DEPT ACID
- ZC-ZCA
- Z-ZCA or ZONE ACID

- LC-LSCA
- SC-SCA

A blank indicates a user ACID.

```
ID: 2801 "ACID ="
33 40 8 ACID
41 41 1 ACID TYPE
42 49 8 PROFILE UNTIL DATE
```

```
ID: 2901 "FACILITIES="
SAME FORMAT AS RECORD 2015
```

```
ID: 2902 "ACID ="
33 40 8 "ACID " DUMMY RES CLASS NAME
41 48 8 ADMIN AUTHORITY
49 56 8 ADMIN AUTHORITY
57 64 8 ADMIN AUTHORITY
65 72 8 ADMIN AUTHORITY
73 80 8 ADMIN AUTHORITY
81 89 8 ADMIN AUTHORITY
90 97 8 ADMIN AUTHORITY
98 105 8 ADMIN AUTHORITY
106 113 8 ADMIN AUTHORITY
114 121 8 ADMIN AUTHORITY
```

```
ID: 2903 " LIST DATA ="
33 40 8 DUMMY RES CLASS NAME
41 48 8 ADMIN AUTHORITY
49 56 8 ADMIN AUTHORITY
57 64 8 ADMIN AUTHORITY
65 72 8 ADMIN AUTHORITY
73 80 8 ADMIN AUTHORITY
81 89 8 ADMIN AUTHORITY
90 97 8 ADMIN AUTHORITY
98 105 8 ADMIN AUTHORITY
106 113 8 ADMIN AUTHORITY
114 121 8 ADMIN AUTHORITY
```

```
ID: 2904 "MISC1 ="
33 40 8 "MISC1 " DUMMY RES CLASS NAME
41 48 8 ADMIN AUTHORITY
49 56 8 ADMIN AUTHORITY
57 64 8 ADMIN AUTHORITY
65 72 8 ADMIN AUTHORITY
73 80 8 ADMIN AUTHORITY
81 89 8 ADMIN AUTHORITY
90 97 8 ADMIN AUTHORITY
98 105 8 ADMIN AUTHORITY
106 113 8 ADMIN AUTHORITY
```

| | | | |
|-----|------|------------|---------------------------------|
| 114 | 121 | 8 | ADMIN AUTHORITY |
| ID: | 2905 | "MISC9 | =" |
| 33 | 40 | 8 | "MISC9 " DUMMY RES CLASS NAME |
| 41 | 48 | 8 | ADMIN AUTHORITY |
| 49 | 56 | 8 | ADMIN AUTHORITY |
| 57 | 64 | 8 | ADMIN AUTHORITY |
| 65 | 72 | 8 | ADMIN AUTHORITY |
| 73 | 80 | 8 | ADMIN AUTHORITY |
| 81 | 89 | 8 | ADMIN AUTHORITY |
| 90 | 97 | 8 | ADMIN AUTHORITY |
| 98 | 105 | 8 | ADMIN AUTHORITY |
| 106 | 113 | 8 | ADMIN AUTHORITY |
| 114 | 121 | 8 | ADMIN AUTHORITY |
| ID: | 2906 | "RESOURCES | =" |
| 33 | 40 | 8 | "RESOURCE" DUMMY RES CLASS NAME |
| 41 | 48 | 8 | ADMIN AUTHORITY |
| 49 | 56 | 8 | ADMIN AUTHORITY |
| 57 | 64 | 8 | ADMIN AUTHORITY |
| 65 | 72 | 8 | ADMIN AUTHORITY |
| 73 | 80 | 8 | ADMIN AUTHORITY |
| 81 | 89 | 8 | ADMIN AUTHORITY |
| 90 | 97 | 8 | ADMIN AUTHORITY |
| 98 | 105 | 8 | ADMIN AUTHORITY |
| 106 | 113 | 8 | ADMIN AUTHORITY |
| 114 | 121 | 8 | ADMIN AUTHORITY |
| ID: | 2907 | "xxxxxxx | =" |
| 33 | 40 | 8 | RESOURCE CLASS NAME FROM RDT |
| 41 | 48 | 8 | ADMIN AUTHORITY |
| 49 | 56 | 8 | ADMIN AUTHORITY |
| 57 | 64 | 8 | ADMIN AUTHORITY |
| 65 | 72 | 8 | ADMIN AUTHORITY |
| 73 | 80 | 8 | ADMIN AUTHORITY |
| 81 | 89 | 8 | ADMIN AUTHORITY |
| 90 | 97 | 8 | ADMIN AUTHORITY |
| 98 | 105 | 8 | ADMIN AUTHORITY |
| 106 | 113 | 8 | ADMIN AUTHORITY |
| 114 | 121 | 8 | ADMIN AUTHORITY |

Note: xxxxxxxx is the eight-character resource name from the RDT.

| | | | |
|-----|------|--------|--|
| ID: | 2908 | "MISC2 | =" |
| | | | SAME FORMAT AS RECORDS 2904 AND 2905. |
| ID: | 2909 | "SCOPE | =" |
| 33 | 40 | 8 | "SCOPE " |
| 41 | 48 | 8 | "ZONE ACID " |

```

ID: 2910 "MISC8 "
33 40 8 "MISC8 " DUMMY RES CLASS NAME
41 48 8 ADMIN AUTHORITY
49 56 8 ADMIN AUTHORITY
57 64 8 ADMIN AUTHORITY
65 72 8 ADMIN AUTHORITY
73 80 8 ADMIN AUTHORITY

ID: 2911 " ACCESS ="
IF PRESENT, THIS RECORD ALWAYS
FOLLOWS
RECORDS 2901-2907.
SAME FORMAT AS RECORD 2011

ID: 2912 "MISC3 =" 3
3 40 8 "MISC3 " DUMMY RES CLASS NAME
41 48 8 ADMIN AUTHORITY
49 56 8 ADMIN AUTHORITY
57 64 8 ADMIN AUTHORITY
65 72 8 ADMIN AUTHORITY
73 80 8 ADMIN AUTHORITY

ID: 2921 " ACCESS =" XAUTH ACCESS LEVELS
SAME FORMAT AS RECORD 2021.

ID: 2930 "VMACH ="
33 43 11 VMACH ENTRY
44 54 11 VMACH ENTRY
55 65 11 VMACH ENTRY
66 76 11 VMACH ENTRY
77 87 11 VMACH ENTRY

ID: 2960 "DIAGNOSE ="
33 36 4 DIAGNOSE CODE
41 44 4 DIAGNOSE CODE
49 52 4 DIAGNOSE CODE
57 60 4 DIAGNOSE CODE

ID: 2990 "SFSCMD ="
33 40 8 SFSCMD
41 48 8 SFSCMD
49 56 8 SFSCMD
57 64 8 SFSCMD

ID: 3000 "PASSWORD ="
33 40 8 PASSWORD
41 48 8 EXPIRES DATE
49 51 3 INTERVAL
52 59 8 FACILITY IF ACID HAS MULTIPW
ATTRIBUTE

```

Note: The password will not be displayed if the user does not have authority to list passwords.

```

ID:  3001  "PHRASE      ="
33   40           EXPIRES DATE
41   43           3     INTERVAL

ID:  3040  "XAUTH DIAGNOSE="
33   40           8     "DIAGNOSE"
41   48           8     XAUTH OWNER ACID
49   56           8     XAUTH UNTIL DATE
57   64           4     XAUTH'D DIAGNOSE CODE

ID:  3050  "XAUTH CPCMD   ="
33   40           8     "CPCMD"
41   48           8     XAUTH OWNER ACID
49   56           8     XAUTH UNTIL DATE
57   120         64    XAUTH'D CPCMD

ID:  3070  "XAUTH VMMACH  ="
33   40           8     "VMMACH"
41   48           8     XAUTH OWNER ACID
49   56           8     XAUTH UNTIL DATE
57   64           8     XAUTH'D VMMACH

ID:  3090  "MODE         ="
33   40           8     XAUTH MODE
41   48           8     XAUTH OWNER ACID
49   56           8     XAUTH UNTIL DATE

ID:  3100  "STC          ="
33   40           8     STC
41   48           8     ACID
49   54           6     "STCACT"

ID:  3200  "PHYSKEY      ="
33   35           3     EBCDIC LENGTH OF PHYSKEY
36   290         255   PHYSKEY

ID:  3250  "DEFDATA      ="
33   40           8     DEFNODES

ID:  3260  "XA PROGRAM   ="
33   40           8     XAUTH RESOURCE CLASS NAME
41   48           8     XAUTH OWNER ACID
49   56           8     XAUTH UNTIL DATE
57   64           8     XAUTH PROGRAM

```

Note: The following records are generated from the TSS LIST(RDT) command.

```

ID:  3301  "RESOURCE CLASS="
33   40           8     RDT RESOURCE CLASS NAME

```

| | | | |
|-----|------|---------------|--|
| ID: | 3302 | "ATTRIBUTE =" | |
| 33 | 46 | 14 | RDT RESOURCE ATTRIBUTE |
| 47 | 60 | 14 | RDT RESOURCE ATTRIBUTE |
| 61 | 74 | 14 | RDT RESOURCE ATTRIBUTE |
| 75 | 88 | 14 | RDT RESOURCE ATTRIBUTE |
| 89 | 102 | 14 | RDT RESOURCE ATTRIBUTE |
| 103 | 116 | 14 | RDT RESOURCE ATTRIBUTE |
| 117 | 130 | 14 | RDT RESOURCE ATTRIBUTE |
| 131 | 147 | 14 | RDT RESOURCE ATTRIBUTE |
| 148 | 161 | 14 | RDT RESOURCE ATTRIBUTE |
| 162 | 175 | 14 | RDT RESOURCE ATTRIBUTE |
| 176 | 189 | 14 | RDT RESOURCE ATTRIBUTE |
| 190 | 203 | 14 | RDT RESOURCE ATTRIBUTE |
| ID: | 3303 | "ACCESS =" | |
| 33 | 40 | 8 | RDT RESOURCE ACCESS LEVEL |
| 41 | 44 | 4 | RDT RESOURCE ACCESS MASK |
| 45 | 52 | 8 | RDT RESOURCE ACCESS LEVEL |
| 53 | 56 | 4 | RDT RESOURCE ACCESS MASK |
| 57 | 64 | 8 | RDT RESOURCE ACCESS LEVEL |
| 65 | 68 | 4 | RDT RESOURCE ACCESS MASK |
| 69 | 76 | 8 | RDT RESOURCE ACCESS LEVEL |
| 77 | 80 | 4 | RDT RESOURCE ACCESS MASK |
| 81 | 88 | 8 | RDT RESOURCE ACCESS LEVEL |
| 89 | 92 | 4 | RDT RESOURCE ACCESS MASK |
| ID: | 3304 | "DEFACC =" | |
| 33 | 40 | 8 | RDT RESOURCE DEFAULT ACCESS |
| ID: | 3400 | "xxxxxxx =" | EXTENDED ADMINISTRATION AUTHORITIES |
| 33 | 40 | 8 | EXT ADMIN RES CLASS NAME |
| 41 | 48 | 8 | EXT ADMIN RES OWNER ACID |
| 49 | 94 | 46 | EXT ADMIN RES NAME |
| ID: | 3500 | "TSOLPROC =" | |
| 33 | 40 | 8 | TSOLPROC |
| ID: | 3501 | "TSOLACCT =" | |
| 33 | 72 | 40 | TSOLACCT |
| ID: | 3502 | "TSOJCLASS =" | |
| 33 | 33 | 1 | TSOJCLASS |
| ID: | 3503 | "TSOMCLASS =" | |
| 33 | 33 | 1 | TSOMCLASS |
| ID: | 3504 | "TSOLSIZE =" | |
| 33 | 39 | 7 | TSOLSIZE |
| ID: | 3505 | "TSOUDATA =" | |
| 33 | 36 | 4 | TSOUDATA |

| | | | |
|-----|-------|---------------------------|----------------------------|
| ID: | 3506 | "TSODEFPRFG=" | |
| 33 | 35 | 3 | TSODEFPRFG |
| ID: | 3507 | "TSOOPT =" | OPTIONS |
| 33 | 44 12 | "MAIL" OR "NOMAIL" | |
| 45 | 56 12 | "NOTICES" OR "NONOTICES" | |
| 57 | 68 12 | "OIDCARD" OR "NO OIDCARD" | |
| ID: | 3508 | "TSOCOMMAND=" | |
| 33 | 112 | 80 | TSOCOMMAND |
| ID: | 3509 | "TSODEST =" | |
| 33 | 40 | 8 | TSODEST |
| ID: | 3510 | "TSOHCLASS =" | |
| 33 | 33 | 1 | TSOHCLASS |
| ID: | 3511 | "TSOMSIZE =" | |
| 33 | 39 | 7 | TSOMSIZE |
| ID: | 3512 | "TSOSCLASS =" | |
| 33 | 33 | 1 | TSOSCLASS |
| ID: | 3513 | "TSOUNIT =" | |
| 33 | 40 | 8 | TSOUNIT |
| ID: | 3600 | "SMSSTOR =" | |
| 33 | 40 | 8 | SMSSTOR |
| 41 | 48 | 8 | SMSMGMT |
| ID: | 3601 | "SMSDATA =" | |
| 33 | 40 | 8 | SMSDATA |
| 41 | 48 | 8 | SMSAPPL |
| ID: | 3700 | "FACILITY =" | |
| 33 | 40 | 8 | FACILITY NAME |
| 41 | 48 | 8 | UNTIL DATE |
| ID: | 3701 | "DAYS =" | |
| 33 | 35 | 3 | FACILITY (ALL) If present |
| 36 | 38 | 3 | MONDAY |
| 39 | 41 | 3 | TUESDAY |
| 42 | 44 | 3 | WEDNESDAY |
| 45 | 47 | 3 | THURSDAY |
| 48 | 50 | 3 | FRIDAY |
| 51 | 53 | 3 | SATURDAY |
| 54 | 56 | 3 | SUNDAY |
| 57 | 61 | 5 | FACILITY TIME |
| ID: | 3702 | "ACTION =" | FACILITY ACTIONS |
| | | | SAME FORMAT AS RECORD 2016 |
| ID: | 3703 | "ADMINBY =" | |

| | | | | |
|-----|------|--------------|-----|-----------------------------|
| | 33 | 40 | 8 | ADMINISTERING ACID |
| | 41 | 44 | 4 | DONE ON THIS SMDIF |
| | 45 | 54 | 10 | DATE ADMIN'D MM/DD/YYYY |
| | 55 | 63 | 8 | TIME ADMIN'D HH:MM:SS |
| ID: | 3704 | "DAY/TIME | =" | |
| | 33 | 40 | 8 | NAME OF CALENDAR TO BE USED |
| | 41 | 48 | 8 | NAME OF TIMEREC TO BE USED |
| ID: | 3705 | "SYSID | =" | |
| | 33 | 36 | 4 | SYSID restriction |
| ID: | 3800 | "DLF | =" | DLF RESOURCES |
| | 33 | 76 | 44 | DATA SET NAME |
| | 77 | 82 | 6 | RETAIN ATTRIBUTE |
| ID: | 3810 | "JOBNAMES | =" | |
| | 33 | 40 | 8 | JOBNAME #1 |
| | 41 | 48 | 8 | JOBNAME #2 |
| | 49 | 56 | 8 | JOBNAME #3 |
| | 57 | 64 | 8 | JOBNAME #4 |
| | 65 | 72 | 8 | JOBNAME #5 |
| ID: | 4000 | "ACCOUNT | =" | |
| | 33 | 35 | 3 | LENGTH OF ACCOUNT |
| | 36 | 290 | 255 | WAACNT VALUE |
| ID: | 4001 | "NAME | =" | |
| | 33 | 35 | 3 | LENGTH OF NAME |
| | 36 | 95 | 60 | WANAME VALUE |
| ID: | 4002 | "BUILDING | =" | |
| | 33 | 35 | 3 | LENGTH OF BUILDING |
| | 36 | 95 | 60 | WABLDG VALUE |
| ID: | 4003 | "DEPARTMENT | =" | |
| | 33 | 35 | 3 | LENGTH OF DEPARTMENT |
| | 36 | 95 | 60 | WADEPT VALUE |
| ID: | 4004 | "ROOM NUMBER | =" | |
| | 33 | 35 | 3 | LENGTH OF ROOM NUMBER |
| | 36 | 95 | 60 | WAROOM VALUE |
| ID: | 4005 | "ADDRESS1 | =" | |
| | 33 | 35 | 3 | LENGTH OF ADDRESS1 |
| | 36 | 95 | 60 | WAADDR1 VALUE |
| ID: | 4006 | "ADDRESS2 | =" | |
| | 33 | 35 | 3 | LENGTH OF ADDRESS2 |
| | 36 | 95 | 60 | WAADDR2 VALUE |
| ID: | 4007 | "ADDRESS3 | =" | |

| | | | |
|-----|------|--|---------------------------------------|
| 33 | 35 | 3 | LENGTH OF ADDRESS3 |
| 36 | 95 | 60 | WAADDR3 VALUE |
| ID: | 4008 | "ADDRESS4 | =" |
| 33 | 35 | 3 | LENGTH OF ADDRESS4 |
| 36 | 95 | 60 | WAADDR4 VALUE |
| ID: | 4010 | "----- | SEGMENT" |
| 33 | 40 | 8 | SEGMENT |
| ID: | 4011 | FDT DATA EITHER SYSTEM OR USER-DEFINED | |
| 33 | 40 | 8 | FDTNAME FOR THIS FIELD DATA |
| 41 | 51 | 11 | FDT DISPLAY VALUE WHEN ACID IS LISTED |
| 52 | 300 | 249 | FIRST 249 BYTES OF FIELD DATA |
| ID: | 4012 | FDT DATA CONTINUATION | |
| 33 | 300 | 268 | CONTINUATION OF 4011 (IF NEEDED) |

Note: Record types 4020 through 4023 are created as a result of the TSS LIST(APPCLU) command.

| | | | |
|-----|------|-------------------------------------|------------------|
| ID: | 4020 | "LINK ID | =" |
| 33 | 67 | 35 | LINK ID |
| ID: | 4021 | "TOT VIOS = MAX VIOS = LINK STATUS= | " |
| 33 | 37 | 5 | TOTAL VIOLATIONS |
| 38 | 42 | 5 | MAX VIOLATIONS |
| 43 | 51 | 9 | LINK STATUS |
| ID: | 4022 | "CONVSEC = VIOLATIONS = | " |
| 33 | 40 | 8 | CONVSEC |
| 41 | 45 | 5 | VIOLATIONS |
| ID: | 4023 | "SESS KEY = | " |
| 33 | 48 | 16 | SESSION KEY |
| 49 | 58 | 10 | EXPIRE DATE |
| 59 | 66 | 8 | INTERVAL |

Note: Records types 4100 through 4105 are created as a result of the TSS WHOAMI command.

| | | | |
|-----|------|--------------|-----------|
| ID: | 4100 | "ACIDNAME() | " |
| 33 | 40 | 8 | ACID |
| 41 | 44 | 4 | ACID TYPE |
| 45 | 48 | 4 | MODE |
| 49 | 57 | 9 | UNDEFINED |
| 58 | 63 | 6 | NOADSP |
| ID: | 4101 | "FACILITY() | " |
| 33 | 40 | 8 | FACILITY |
| 41 | 48 | 8 | TERMINAL |
| 49 | 51 | 3 | LOCKTIME |

| | | | | |
|------|------|-------------------------|-----|-------------------------|
| | 52 | 54 | 3 | TIMEZONE |
| ID: | 4102 | "SYSTEMID() " | | |
| | 33 | 40 | 8 | SYSTEMID |
| | 41 | 48 | 8 | LOG: |
| | 49 | 54 | 6 | ALL NONE |
| | 55 | 60 | 6 | ACCESS ACC |
| | 61 | 66 | 6 | INIT |
| | 67 | 72 | 6 | SMF |
| | 73 | 78 | 6 | SEC9 |
| | 79 | 84 | 6 | NMSG |
| ID: | 4103 | "INSTDATA() " | | |
| | 33 | 288 | 256 | INSTDATA |
| ID: | 4104 | "BYPASSING() " | | |
| | 33 | 40 | 8 | BYPASS ATTRIBUTE |
| | 41 | 48 | 8 | BYPASS ATTRIBUTE |
| | 49 | 56 | 8 | BYPASS ATTRIBUTE |
| | 57 | 65 | 8 | BYPASS ATTRIBUTE |
| | 66 | 74 | 8 | BYPASS ATTRIBUTE |
| ID: | 4105 | "STORAGE() " | | |
| | 33 | 40 | 8 | STORAGE |
| | 41 | 48 | 8 | PROFILES |
| ID: | 4110 | FDT FDTNAME() | | |
| | 33 | 40 | 8 | FDT FDTNAME |
| ID: | 4112 | FDT SEGMENT NAME() | | |
| | 33 | 42 | 10 | FDT SEGMENT NAME |
| ID: | 4113 | FDT MAXLEN() | | |
| | 33 | 43 | 11 | FDT SEGMENT NAME |
| ID: | 4114 | FDT DISPLAY VALUE() | | |
| | 33 | 43 | 11 | FDT DISPLAY VALUE |
| ID: | 4115 | FDT RESOURCE ATTRIBUTES | | |
| | 33 | 88 | 55 | FDT RESOURCE ATTRIBUTES |
| ID: | 4200 | UAF NAME | | |
| | 33 | 151 | 119 | |
| ID : | 4210 | GROUP # | | |
| | 33 | 37 | 5 | |
| ID: | 4220 | GROUP NAME | | |
| | 33 | 35 | 3 | |
| ID: | 4230 | PRIM DAYS = | | |
| | 33 | 35 | 3 | MON |
| | 37 | 39 | 3 | TUE |

| | | | |
|-----|------|--------------|--------------------------|
| 41 | 43 | 3 | WED |
| 45 | 47 | 3 | THU |
| 49 | 51 | 3 | FRI |
| 53 | 55 | 3 | SAT |
| 57 | 59 | 3 | SUN |
| ID: | 4240 | SCNDY DAYS = | |
| 33 | 35 | 3 | MON |
| 37 | 39 | 3 | TUE |
| 41 | 43 | 3 | WED |
| 45 | 47 | 3 | THU |
| 49 | 51 | 3 | FRI |
| 53 | 55 | 3 | SAT |
| 57 | 59 | 3 | SUN |
| ID: | 4250 | PRIMARY = | |
| 33 | 57 | 24 | |
| ID: | 4260 | DAY HOURS = | |
| 33 | 57 | 24 | |
| ID: | 4270 | NETWORK = | |
| 33 | 56 | 24 | FULL ACCESS OR NO ACCESS |
| ID: | 4280 | BATCH = | |
| 33 | 56 | 24 | |
| ID: | 4290 | LOCAL = | |
| 33 | 56 | 24 | |
| ID: | 4300 | DIALUP = | |
| 33 | 56 | 24 | |
| ID: | 4310 | REMOTE = | |
| 33 | 56 | 24 | |
| ID: | 4320 | PDISKQUOTA= | |
| 33 | 56 | 24 | |
| ID: | 4330 | DEFDIR = | |
| 33 | 56 | 22 | |
| ID: | 4350 | DFLT PRIVS= | |
| 33 | 40 | 8 | |
| 41 | 48 | 8 | |
| 49 | 56 | 8 | |
| 57 | 64 | 8 | |
| 65 | 72 | 8 | |
| 73 | 80 | 8 | |
| 81 | 89 | 8 | |
| ID: | 4360 | AUTH PRIVS= | |

| | | | |
|-----|------|----------------|------------------------|
| 33 | 40 | 8 | |
| 41 | 48 | 8 | |
| 49 | 56 | 8 | |
| 57 | 64 | 8 | |
| 65 | 72 | 8 | |
| 73 | 80 | 8 | |
| 81 | 89 | 8 | |
| ID: | 4361 | "LOGIN FLAGS=" | |
| 33 | 40 | 8 | ALOGIN |
| 41 | 48 | 8 | CAPTIVE |
| 49 | 56 | 8 | CLIDF |
| 57 | 64 | 8 | DISCTLY |
| 65 | 72 | 8 | DISPWCHG |
| 73 | 80 | 8 | DISMAIL |
| 81 | 88 | 8 | DISIMAGE |
| 89 | 97 | 8 | DISNEWM |
| 98 | 105 | 8 | DISRECON |
| 106 | 111 | 8 | DISREPOR |
| 112 | 119 | 8 | DISWELCO |
| 120 | 127 | 8 | RESTRICT |
| ID: | 4362 | "LGICMD | =" |
| 33 | 95 | 33 | LGICMD VALUE |
| ID: | 4363 | "TABLES | =" |
| 33 | 44 | 12 | TABLES VALUE |
| ID: | 4364 | "LOGFAIL | =" |
| 33 | 40 | 8 | BATCH |
| 41 | 48 | 8 | DETACHED |
| 49 | 56 | 8 | DIALUP |
| 57 | 64 | 8 | LOCAL |
| 65 | 72 | 8 | NETWORK |
| 73 | 80 | 8 | REMOTE |
| 81 | 88 | | SUBPROC |
| ID: | 4365 | "FMODE | =" |
| 33 | 40 | 8 | WAIT |
| 41 | 48 | 8 | IGNORE |
| 49 | 56 | 8 | CRASH |
| ID: | 4366 | AUDIT | =" |
| 33 | 40 | 8 | ACL |
| 41 | 48 | 8 | AUDIT |
| 49 | 56 | 8 | AUTHORIZ |
| 57 | 64 | 8 | INSTALL |
| 65 | 72 | 8 | MOUNT |
| ID: | 4367 | "BREAKIN | =" |
| 33 | 37 | 5 | BREAKIN TIME OUT VALUE |

| | | | |
|-----|------|----------|-----------|
| ID: | 4368 | "CLI | =" |
| 33 | 44 | 12 | CLI VALUE |
| ID: | 4401 | "UID | =" |
| 33 | 42 | 10 | UID |
| ID: | 4402 | "GID | =" |
| 33 | 42 | 10 | GID |
| ID: | 4403 | "HOME | =" |
| 33 | 100 | 68 | HOME |
| ID: | 4404 | "OMVSPGM | =" |
| 33 | 100 | 68 | OMVSPGM |
| ID: | 4405 | "DLFTGRP | =" |
| 33 | 40 | 8 | DLFTGRP |
| ID: | 4501 | "MCSALTG | =" |
| 33 | 40 | 8 | MCSALTG |
| ID: | 4502 | "MCSAUTH | =" |
| 33 | 33 | 1 | MCSAUTH |
| ID: | 4503 | "MCSAUTO | =" |
| 33 | 35 | 3 | MCSAUTO |
| ID: | 4504 | "MCSCMDS | =" |
| 33 | 40 | 8 | MCSCMDS |
| ID: | 4505 | "MCSDOM | =" |
| 33 | 38 | 6 | MCSDOM |
| ID: | 4506 | "MCSKEY | =" |
| 33 | 40 | 8 | MCSKEY |
| ID: | 4507 | "MCSLEVL | =" |
| 33 | 46 | 14 | MCSLEVL |
| ID: | 4508 | "MCSLOGC | =" |
| 33 | 38 | 6 | MCSLOGC |
| ID: | 4509 | "MCSMFRM | =" |
| 33 | 41 | 9 | MCSMFRM |
| ID: | 4510 | "MCSMGID | =" |
| 33 | 35 | 3 | MCSMGID |
| ID: | 4511 | "MCSMOM | =" |
| 33 | 56 | 24 | MCSMOM |
| ID: | 4512 | "MCSROUT | =" |
| 33 | 100 | 68 | MCSROUT |

| | | | | |
|-----|------|-------------------------------|---------------------|-------------------------------------|
| ID: | 4513 | "MCSSTOR | =" | |
| 33 | 42 | 10 | | MCSSTOR |
| ID: | 4514 | "MCSUD | =" | |
| 33 | 35 | 3 | | MCSUD |
| ID: | 4520 | "NAME | =" | DIGITAL CERTIFICATE NAME |
| 33 | 40 | 8 | | CERTIFICATE NAME |
| 41 | 45 | 5 | | TRUST OR BLANK |
| ID: | 4521 | "STARTS | =" | DIGITAL CERTIFICATE START DATE |
| 33 | 40 | 8 | | xx/xx/xx |
| ID: | 4522 | "EXPIRES | =" | DIGITAL CERTIFICATE EXPIRATION DATE |
| 33 | 40 | 8 | | xx/xx/xx |
| ID: | 4523 | "CERTID | =" | DIGITAL CERTIFICATE VALUE |
| 33 | 34 | 2 | | SIZE OF CERTIFICATE IN BINARY |
| 35 | | | | START OF CERTIFICATE |
| ID: | 4524 | "USERINFO | =" | DIGITAL CERTIFICATE USER INFO |
| 33 | 34 | 2 | | SIZE OF USER INFO IN BINARY |
| 35 | | | | START OF USER INFO |
| ID: | 4525 | "ACID(aaaaaaa) | KEYRING(kkkkkkkk) | ="CERTIFICATE |
| 33 | 40 | 8 | | ACID NAME |
| 41 | 48 | 8 | | KEYRING RECORD ID |
| ID: | 4526 | "SERIAL # | =" | DIGITAL CERTIFICATE SERIAL NUMBER |
| 33 | 40 | 8 | | CERTIFICATE SERIAL NUMBER |
| ID: | 4527 | "ISSUER DISTINGUISHED NAME:" | | INDFILTER VALUE |
| 33 | 35 | 3 | | SIZE OF USER INFO IN EBCDIC |
| 36 | 290 | 255 | | CERTIFICATE ISSUER NAME |
| ID: | 4528 | "SUBJECT DISTINGUISHED NAME:" | | SDNFILTER VALUE |
| 33 | 35 | 3 | | SIZE OF USER INFO IN EBCDIC |
| 36 | 290 | 255 | | CERTIFICATE SUBJECT NAME |
| ID: | 4529 | "NOT BEFORE(xx/xx/xx)" | | |
| 33 | 40 | 8 | | DATE FIELD |
| ID: | 4530 | "NOT AFTER(xx/xx/xx)" | | |
| ID: | 4531 | "PRIVATE KEY SIZE=nnnn" | | |
| 33 | 36 | 4 | | SIZE OF PRIVATE KEY |
| ID: | 4532 | "PRIVATE KEY TYPE=ttttttt" | | |
| 33 | 40 | 8 | | ICSF or NON-ICSF |
| ID: | 4540 | "KEYRING=kkkkkkkk | ACCESSORID=aaaaaaa" | |
| 33 | 40 | 8 | | RECORD ID |
| 41 | 48 | 8 | | ACID NAME |

| | | | |
|-----|------|-----|---|
| ID: | 4541 | | "KEYRING LABEL=" |
| 33 | 35 | 3 | SIZE OF USER INFO IN EBCDIC |
| 36 | 272 | 237 | LABEL NAME |
| ID: | 4542 | | "ACID(a) DIGICERT(d) DEFAULT(f) USAGE(u)" |
| 33 | 40 | 8 | ACID NAME |
| 41 | 48 | 8 | CERTIFICATE RECORD ID |
| 49 | 51 | 3 | DEFAULT |
| 52 | 59 | 8 | USAGE |
| 60 | 91 | 31 | CERTIFICATE LABEL NAME |
| ID: | 4550 | | "CERTMAP=mmmmmmm ACCESSORID=aaaaaaa" |
| 33 | 40 | 8 | RECORD ID |
| 41 | 48 | 8 | ACID NAME |
| ID: | 4551 | | "LABEL:" |
| 33 | 64 | 31 | LABEL |
| ID: | 4552 | | "STATUS" |
| 33 | 40 | 8 | TRUST OR NOTRUST |
| ID: | 4553 | | "SUBJECT NAME FILTER" |
| 33 | 35 | 3 | SIZE OF USER INFO IN EBCDIC |
| 36 | 270 | 234 | SUBJECT NAME |
| ID: | 4554 | | "ISSUER NAME FILTER:" |
| 33 | 35 | 3 | SIZE OF USER INFO IN EBCDIC |
| 36 | 270 | 234 | ISSUER NAME |
| ID: | 4555 | | "CRITERIA:" |
| 33 | 35 | 3 | SIZE OF USER INFO IN EBCDIC |
| 36 | 270 | 234 | CRITERIA DATA |
| ID: | 4560 | | "CRITMAP=ccccccc ACCESSORID=aaaaaaa" |
| 33 | 40 | 8 | RECORD ID |
| 41 | 48 | 8 | ACID NAME |
| ID: | 4561 | | "SYSTEM ID:" |
| 33 | 40 | 8 | SYSTEM ID |
| ID: | 4562 | | "APPLICATION:" |
| 33 | 40 | 8 | APPLID |
| ID: | 4563 | | "USER DEFINED VARIABLES:," |
| 33 | 35 | 3 | SIZE OF USER INFO IN EBCDIC |
| 36 | 270 | 235 | USER VARIABLES |

Note: The following record types are created as a result of a TSSLIST(SDT) command. Output records produced vary depending on the type of keyword listed.

| | | | |
|-----|------|--|-------------------------------|
| ID: | 5000 | | TSS LIST(SDT) TIMEREC(xxxxxx) |
|-----|------|--|-------------------------------|

| | | | |
|-----|------|----|--------------------------------|
| 33 | 40 | 8 | TIMEREC NAME |
| 41 | 48 | 8 | UNUSED |
| 49 | 56 | 8 | ADMIN BY ACID NAME |
| 57 | 60 | 4 | SMF ID WHERE ADMIN WAS DONE |
| 61 | 70 | 10 | DATE OF LAST CHANGE MM/DD/YYYY |
| 71 | 78 | 8 | TIME OF LAST CHANGE HH:MM:SS |
| 79 | 110 | 32 | USER RECORD DESCRIPTION |
| ID: | 5001 | | TSS LIST(SDT) TIMEREC(XXXXXX) |
| 33 | 34 | 2 | STARTING HOUR FOR THIS RECORD |
| 35 | 36 | 2 | ENDING HOUR FOR THIS RECORD |
| 37 | 56 | 20 | 15 MINUTE TIME INTERVAL VALUES |
| ID: | 5005 | | TSS LIST(SDT) CALENDAR(XXXXXX) |
| 33 | 40 | 8 | CALENDAR RECORD NAME |
| 41 | 48 | 8 | UNUSED |
| 49 | 52 | 4 | YEAR THIS RECORD APPLIES TO |
| 53 | 60 | 8 | ADMIN BY ACID NAME |
| 61 | 64 | 4 | SMF ID WHERE ADMIN WAS DONE |
| 65 | 74 | 10 | DATE OF LAST CHANGE MM/DD/YYYY |
| 75 | 82 | 8 | TIME OF LAST CHANGE HH:MM:SS |
| 83 | 114 | 32 | USER RECORD DESCRIPTION |
| ID: | 5006 | | TSS LIST(SDT) CALENDAR(XXXXXX) |
| 33 | 35 | 3 | MONTH THIS RECORD APPLIES TO |
| 36 | 66 | 31 | VALUES FOR DAYS OF THE MONTH |
| ID: | 5010 | | TSS LIST(SDT) MAPREC(XXXXXX) |
| 33 | 40 | 8 | MAPREC RECORD NAME |
| 41 | 48 | 8 | UNUSED |
| 49 | 56 | 8 | ADMIN BY ACID NAME |
| 57 | 60 | 4 | SMF ID WHERE ADMIN WAS DONE |
| 61 | 70 | 10 | DATE OF LAST CHANGE MM/DD/YYYY |
| 71 | 78 | 8 | TIME OF LAST CHANGE HH:MM:SS |
| 79 | 110 | 32 | USER RECORD DESCRIPTION |
| ID: | 5011 | | TSS LIST(SDT) MAPREC(XXXXXX) |
| 33 | 34 | 2 | FIELD NUMBER |
| 35 | 35 | 1 | BLANK |
| 36 | 59 | 24 | FIELD NAME |
| 60 | 60 | 1 | BLANK |
| 61 | 63 | 3 | ROW NUMBER |
| 64 | 64 | 1 | BLANK |
| 65 | 67 | 3 | COLUMN NUMBER |
| 68 | 68 | 1 | BLANK |
| 69 | 71 | 3 | LENGTH VALUE |
| 72 | 72 | 1 | |
| 73 | 78 | 6 | CHAR BIN PACKED ZONED HEX |
| ID: | 5015 | | TSS LIST(SDT) MASKREC(XXXXXX) |
| 33 | 40 | 8 | MASKREC RECORD NAME |

| | | | |
|-----|------|-----|--------------------------------|
| 41 | 48 | 8 | UNUSED |
| 49 | 56 | 8 | ADMIN BY ACID NAME |
| 57 | 60 | 4 | SMF ID WHERE ADMIN WAS DONE |
| 61 | 70 | 10 | DATE OF LAST CHANGE MM/DD/YYYY |
| 71 | 78 | 8 | TIME OF LAST CHANGE HH:MM:SS |
| 79 | 110 | 32 | USER RECORD DESCRIPTION |
| ID: | 5016 | | TSS LIST(SDT) MASKREC(XXXXXX) |
| 33 | 34 | 2 | MASK NUMBER |
| 35 | 35 | 1 | BLANK |
| 36 | 59 | 24 | MASK NAME |
| 60 | 60 | 1 | BLANK |
| 61 | 63 | 3 | OFFSET NUMBER |
| 64 | 64 | 1 | BLANK |
| 65 | 67 | 3 | LENGTH VALUE |
| 68 | 68 | 1 | BLANK |
| 69 | 74 | 6 | CHAR BIN PACKED ZONED HEX |
| 75 | 75 | 1 | BLANK |
| 76 | 119 | 44 | MASK VALUE |
| ID: | 5020 | | TSS LIST(SDT) SELECT(XXXXXX) |
| 33 | 40 | 8 | SELECT RECORD NAME |
| 41 | 48 | 8 | UNUSED |
| 49 | 56 | 8 | ADMIN BY ACID NAME |
| 57 | 60 | 4 | SMF ID WHERE ADMIN WAS DONE |
| 61 | 70 | 10 | DATE OF LAST CHANGE MM/DD/YYYY |
| 71 | 78 | 8 | TIME OF LAST CHANGE HH:MM:SS |
| 79 | 110 | 32 | USER RECORD DESCRIPTION |
| ID: | 5021 | | TSS LIST(SDT) SELECT(XXXXXX) |
| 33 | 299 | 268 | SELDATA field |
| ID: | 5025 | | TSS LIST(SDT) RECORD(XXXXXX) |
| 33 | 40 | 8 | RLP RECORD NAME |
| 41 | 48 | 8 | UNUSED |
| 49 | 56 | 8 | ADMIN BY ACID NAME |
| 57 | 60 | 4 | SMF ID WHERE ADMIN WAS DONE |
| 61 | 70 | 10 | DATE OF LAST CHANGE MM/DD/YYYY |
| 71 | 78 | 8 | TIME OF LAST CHANGE HH:MM:SS |
| 79 | 110 | 32 | USER RECORD DESCRIPTION |
| ID: | 5026 | | |
| 33 | 34 | 2 | FIELD NUMBER |
| 35 | 35 | 1 | BLANK |
| 36 | 59 | 24 | FIELD NAME |
| 60 | 60 | 1 | BLANK |
| 61 | 65 | 5 | OFFSET VALUE |
| 66 | 66 | 1 | BLANK |
| 67 | 68 | 2 | FIELD LENGTH |
| 69 | 69 | 1 | BLANK |
| 70 | 75 | 6 | CHAR BIN PACKED ZONED HEX |

```

ID: 5030      TSS LIST(SDT) DIGICERT(ALL)
33  40       8      CERTIFICATE NAME
41  48       8      ASSOCIATED ACID
49  56       7      ADMIN BY ACID NAME
57  60       4      SMFID WHERE ADMIN WAS DONE
61  70      10      DATE OF LAST CHANGE MM/DD/YYYY
71  78       8      TIME OF LAST CHANGE HH:MM:SS
    
```

```

ID: 5035      TSS LIST(SDT) RINGDATA(ALL)
33  40       8      KEYRING RECORD ID
41  48       8      ASSOCIATED ACID
    
```

```

ID: 5040      TSS LIST(SDT) CERTMAP(ALL)
33  40       8      CERTIFICATE RECORD ID
41  48       8      ASSOCIATED ACID
    
```

```

ID: 5045      TSS LIST(SDT) CRITMAP(ALL)
33  40       8      CRITERIA MAP RECORD ID
41  48       8      ASSOCIATED ACID
    
```

Note: The following record types are created as a result of TSS MODIFY commands.

```

ID: 9701      TSS0029I MESSAGE
33  35       3      RELEASE LEVEL
36  39       4      GENLEVEL
40  47       8      GENERATION DATE
48  55       8      GENERATION TIME
    
```

```

ID: 9702      TSS0028I MESSAGE
33  35       3      RELEASE LEVEL
36  39       4      GENLEVEL
40  47       8      GENERATION DATE
48  55       8      GENERATION TIME
    
```

```

ID: 9703      AUTH(n,n) DOWN(nn) INACTIVE(nnn)
33  40       8      OVERRIDE
41  48       8      ALLOVER
49  50       2      DOWN OPTION
51  53       3      INACTIVE VALUE
    
```

```

ID: 9704      LOG(nnnn,nnn) MODE(nn) MSUSPEND(nnn)
33  38       6      ALL|NONE
39  44       6      LOG OPTION
45  50       6      LOG OPTION
51  56       6      LOG OPTION
57  62       6      LOG OPTION
63  66       4      RUN MODE
67  69       3      MSUSPEND (YES|NO)
    
```

```

ID: 9705      UPCASE(nnn) VMFAC(nnnnnnnn) VTHRESH(n,nnnnnnnn)
    
```

| | | | |
|-----|------|-----------------------|--------------------------------|
| 33 | 35 | 3 | YES NO |
| 36 | 43 | 8 | FACILITY NAME |
| 44 | 46 | 3 | NUMBER |
| 47 | 53 | 7 | SUSPEND |
| ID: | 9706 | PRODUCTS(none) | POSIXMGRP(nnn) |
| 33 | 40 | 8 | NONE |
| 41 | 43 | 3 | MAXIMUM NUMBER OF POSIX GROUPS |
| ID: | 9707 | OPTIONALS(00n,00n,..) | |
| 33 | 35 | 3 | ACTIVE OPTION NUMBER |
| 36 | 36 | 1 | BLANK |

Note: The two records above are repeated for the total number of OPTIONALS set.

| | | | |
|-----|------|-----------------------------------|----------------------------------|
| ID: | 9708 | NEWPW(MIN=n,WARN=nnn,MINDAYS=...) | |
| 33 | 34 | 2 | VALUE FOR MIN |
| 35 | 37 | 3 | VALUE FOR MAX |
| 38 | 39 | 2 | VALUE FOR WARN |
| 40 | 41 | 2 | VALUE FOR MINDAYS |
| 42 | 42 | 1 | NUMBER OF LETTER REPEATS ALLOWED |
| 43 | 50 | 8 | MASK |
| 51 | 52 | 2 | ID |
| 53 | 54 | 2 | NM |
| 55 | 56 | 2 | NO |
| 57 | 58 | 2 | NU |
| 59 | 60 | 2 | NV |
| 61 | 62 | 2 | RN |
| 63 | 64 | 2 | RS |
| 65 | 66 | 2 | SW |
| 67 | 68 | 2 | TS |
| 69 | 70 | 2 | FN |
| 71 | 72 | 2 | FA |
| 73 | 80 | 8 | MASK= VALUE |

Note: Options display on the cfile output record in the same sequence as the appear on the input listing.

| | | | | |
|-----|------|------------------|-----------------|-----------------|
| ID: | 9709 | PTHRESH(nnn) | PWEXP(nnn) | NPWRTHR(nnn) |
| 33 | 35 | 3 | PTHRESH VALUE | |
| 36 | 38 | 3 | PWEXP VALUE | |
| 39 | 41 | 3 | NPWRTHR VALUE | |
| ID: | 9710 | PWHIST(nn) | | |
| 33 | 34 | 2 | PWHIST VALUE | |
| 35 | 37 | 3 | PWVERIFY | |
| ID: | 9711 | AUDITING(xxxxxx) | BACKUP(nnnn) | CCIVM(xxxxxxxx) |
| 33 | 40 | 8 | INACTIVE ACTIVE | |
| 41 | 44 | 3 | OFF hhmm | |

```

45  51      8      USERID of CCI MACHINE

ID:  9712    DATE(mm/dd/yy)  DUMP(n)    EXIT(off)
33  40      8      DATE
41  41      1      0-9
42  44      3      OFF|ON

ID:  9713    ID(PRIMARY|BACKUP) INI(hh:mm:ss,mm/dd/yy) RECOVERY(xxx)
33  40      8      SECFILE ID
41  48      8      TIME
49  56      8      DATE
57  59      3      RECOVERY FILE STATE

ID:  9714    RESTART(n)  SHRFILE(YES|NO)  SYSOUT(xxxxx)
33  33      1      NUMBER OF ALLOWED RESTARTS
34  45      12     SHARING FILE?
46  53      8      WHO GETS THE OUTPUT

ID:  9715    TIMER(nnn)  VMLOGID(xxxxxxx) DISPMASK(xxxxxxx)
33  35      3      TIMER TICKS ALLOWED
36  43      8      NAME APPEARING IN UTIL REPORTS
44  51      8      ON|OFF

ID:  9716    BATCH(INACTIVE)
33  40      8      BATCH MACHINE CURRENTLY INACTIVE

ID:  9717    BATCHJ=nnnn,P=xxxxxxx,A=xxxxxxx,U=xxxxxx,S=xxxxx,D=xxx
33  36      4      BATCH JOB NUMBER RUNNING NOW
37  42      8      BATCH JOB RUNNING THIS PROGRAM
43  50      8      BATCH JOB RUNNING UNDER THIS ACID
51  58      8      BATCH JOB FOR THIS USER
59  66      8      BATCH JOB USING THIS MUCH STORAGE
67  72      8      BATCH JOB

ID:  9718    STORAGE(NUC=xxxx,sys=xxxx,..)
33  37      5      NUCLEUS USING THIS MUCH MEMORY
38  42      5      THIS MUCH USED BY SYSTEM
43  47      5      THIS MUCH TOTAL FREE STORAGE
48  52      5      THIS MUCH FREE STORAGE IN USE
53  57      5      THIS MUCH FREE STORAGE AVAILABLE

ID:  9719    DEBUG(xxx)  IOTRACE(xxx)
33  35      3      DEBUG setting
36  38      3      IOTRACE SETTING

ID:  9721    SECTRACE(xxx)
33  35      3      SECTRACE SETTING

ID:  9722    SECFILE(nn,xxxxxxx.xxxxxxx.xxxxxxx)
9723    AUDFILE(nn,xxxxxxx.xxxxxxx.xxxxxxx)
9724    RECFILE(nn,xxxxxxx.xxxxxxx.xxxxxxx)
9725    BKPFILe(nn,xxxxxxx.xxxxxxx.xxxxxxx)

```

| | | | | | |
|-----|------|-------------------------------------|---------------------------|-----------------------------|------------|
| | 9726 | AUDFIL2(nn,xxxxxxx.xxxxxxx.xxxxxxx) | | | |
| | 9727 | CPFFILE(nn,xxxxxxx.xxxxxxx.xxxxxxx) | | | |
| 33 | 34 | 2 | 00-99 | PERCENTAGE FILE IS FULL | |
| 35 | 78 | 44 | | MVS-STYLE DSN OF GIVEN FILE | |
| ID: | 9728 | CPF(xxx) | CPFWAIT(xxx) | CPFTARGET(xxxxxxx) | |
| 33 | 35 | 3 | | CPF VALUE | |
| 36 | 38 | 3 | | CPFWAIT VALUE | |
| 39 | 46 | 8 | | CPFTARGET VALUE | |
| ID: | 9729 | CPFOUT(xxxx) | CPFLOCAL(xxxx(xx,x)) | CPFRCVUND(xxx) | |
| 33 | 40 | 8 | | CPFOUT VALUE | |
| 41 | 48 | 8 | | CPFLOCAL USERID | |
| 49 | 51 | 3 | | VIRTUAL PRINTER CUU | |
| 52 | 52 | 1 | | OUTPUT CLASS | |
| 53 | 55 | 3 | | CPFRCVUND VALUE | |
| ID: | 9730 | CPFTRACE(xxxxxxxx) | | | |
| 33 | 40 | 8 | | CPFTRACE VALUE | |
| ID: | 9731 | CPFNODE(xxxxxx) | STATUS(xxxxxx,xxxx,xxxxx) | JOURNAL(cuu,x) | |
| 33 | 40 | 8 | | NODE WE'RE TALKING ABOUT | |
| 41 | 48 | 8 | | STATUS ACTIVE INACTIVE | |
| 49 | 56 | 8 | | SPOOL | |
| 57 | 64 | 8 | | RETRY | |
| 65 | 72 | 8 | | PRE50 | |
| 73 | 75 | 3 | | JOURNAL NUMBER | |
| 76 | 76 | 1 | | OUTPUT CLASS | |
| ID: | 9732 | AUD(nnnn) | BAT(nnnn) | CFC(nnnnn) | CHG(nnnnn) |
| | 9733 | HVC(nnnn) | INI(nnnn) | IOR(nnnnn) | IOW(nnnnn) |
| | 9734 | IUR(nnnn) | IUP(nnnn) | REC(nnnnn) | SEC(nnnnn) |
| | 9735 | SRI(nnnn) | VIO(nnnn) | | |
| | 9736 | LOK(nnnn) | LWT(nnnn) | | |
| 33 | 40 | 8 | | VALUE OF FIRST FIELD | |
| 41 | 48 | 8 | | VALUE OF SECOND FIELD | |
| 49 | 56 | 8 | | VALUE OF THIRD FIELD | |
| 57 | 62 | 8 | | VALUE OF FOURTH FIELD | |
| ID: | 9740 | ADMINBY(xxx) | EXPDAYS(nn) | | |
| 33 | 35 | 3 | | ADMINBY SETTING | |
| 36 | 37 | 2 | | EXPDAYS SETTING | |
| ID: | 9741 | DFLTRNGU(xxxx,xxxx) | | | |
| 33 | 43 | | | DFLTRNGU lower limit | |
| 44 | 54 | | | DFLTRNGU upper limit | |
| ID | 9742 | DFLTRNGG(xxxx,xxxx) | | | |
| 33 | 43 | | | DFLTRNGG lower limit | |
| 44 | 54 | | | DFLTRNGG upper limit | |

```
ID: 9743      "NEWPHRASE (MIN=XX,MAX=XXX,WARN=XX,MINDAYS=XX,
NR=X,ID,NU,SC=X,MA=X,MN=X)"
33  34      2   MIN
35  37      3   MAX
38  39      2   WARN
40  41      2   MINDAYS
42  43      1   NR
43  44      2   SC
45  46      2   PASSPHRASE OPTION
47  48      2   MA
49  50      2   MN
51  52      2   PASSPHRASE OPTION
53  54      2   PASSPHRASE OPTION
55  56      2   PASSPHRASE OPTION
57  58      2   PASSPHRASE OPTION
59  60      2   PASSPHRASE OPTION
61  62      2   PASSPHRASE OPTION
63  64      2   PASSPHRASE OPTION
65  66      2   PASSPHRASE OPTION
67  68      2   PASSPHRASE OPTION
69  70      2   PASSPHRASE OPTION
70  72      2   PASSPHRASE OPTION
73  74      2   PASSPHRASE OPTION
75  76      2   PASSPHRASE OPTION
77  78      2   PASSPHRASE OPTION
79  80      2   PASSPHRASE OPTION
81  82      2   PASSPHRASE OPTION
83  84      2   PASSPHRASE OPTION
85  86      2   PASSPHRASE OPTION
87  88      2   PASSPHRASE OPTION
89  90      2   PASSPHRASE OPTION

ID  9746      PPHRASE
33  35      3   ON[OFF

ID  9747      MAX_ACID_SIZE(NNNN)
33  37      5   MAX_AID_SIZE VALUE
38  45      8   NEW_PASSWORD VALUE

9748 "TSSCMDOPTION ="
33  40      8   First option
41  48      8   Second option (if present)
49  56      8   Third option (if present)
57  64      8   Fourth option (if present)
65  72      8   Fifth option (if present)
73  80      8   Sixth option (if present)
81  88      8   Seventh option (if present)
89  96      8   Eighth option (if present)
97  104     8   Ninth option (if present)
105 112     8   Tenth option (if present)
```

```

ID   9749   PASSCHAR(XXXX)
33   48      16   PASSWORD SPECIAL CHAR

ID:  9750   "TSS9582I oldclass : newclass  "
33   40      8    Old resource class
41   48      8    New resource class
49   56      8    Old resource class
57   64      8    New resource class
65   72      8    Old resource class
73   80      8    New resource class

```

Record Types Summary

The following summary lists the record ID number and description for each record type.

| ID Number | Record Type | Description |
|-----------|-----------------|--|
| 0001 | DATA DELIMITER: | TSS LIST COMMAND |
| 0100 | "NAME =" | NAME |
| 0200 | "TYPE =" | ACID TYPE |
| 0300 | "DEPT ACID =" | DEPT ACID,DEPT NAME |
| 0400 | "DIV ACID =" | DIVACID,DIVNAME |
| 0450 | "ZONE ACID =" | ZONEACID,ZONENAME |
| 0500 | "CREATED =" | DATE: CREATED, LAST MODIFIED |
| 0501 | "EXPIRES =" | EXPIRE |
| 0502 | "SUSPENDED =" | SUSPENDED |
| 0600 | "PROFILES =" | PROFILE ACIDS |
| 0650 | "GROUPS =" | GROUP NAME |
| 0675 | "FAC =" | FACILITY NAME |
| 0700 | "ATTRIBUTES =" | ATTRIBUTES |
| 0800 | "BYPASSING =" | SECURITY BYPASS ATTRIBUTES |
| 0900 | "LAST USED =" | DATE/TIME LAST USED,CPU, FAC, COUNT |
| 1000 | "MASTER FAC =" | MASTER FACILITY |
| 1100 | "LOCK TIME =" | LOCK TIME (MINUTES) |
| 1200 | "LANGUAGE =" | LANGUAGE PREFERENCE CODE |

| ID Number | Record Type | Description |
|------------------|--------------------|--|
| 1300 | "TIME ZONE =" | TIME ZONE |
| 1400 | "DSN/PREFIX =" | DSN/PREFIX (OWNED) |
| 1500 | "VOLUMES =" | VOLSER (OWNED), ATTRIBUTES |
| 1600 | "VMMDISKS =" | MINIDISKS (OWNED) |
| 1700 | "RESOURCE =" | RESOURCE CLASS NAME, ENTITY |
| 1900 | "WHOOWNS =" | RESOURCES OWNED |
| 1950 | "WHOHAS =" | RESOURCE ACCESS |
| 2001 | "XA ACID =" | XAUTH OWNER NAME, |
| 2002 | "XA DATASET =" | XAUTH OWNER NAME,UNTIL DATE, DSN |
| 2003 | "XA VOLUME =" | XAUTH OWNER NAME,UNTIL DATE, VOLUME |
| 2004 | "XA MINIDISK=" | XAUTH OWNER NAME,UNTIL DATE, MINIDISK |
| 2005 | "XA xxxxxx =" | XAUTH OWNER NAME,UNTIL DATE, RESOURCE |
| 2010 | " VMNODE=" | VM NODE (OWNED) |
| 2011 | " ACCESS =" | XAUTH ACCESS LEVELS |
| 2012 | " DAYS =" | XAUTH DAYS, TIMES |
| 2013 | " LIBRARY =" | XAUTH LIBRARY |
| 2014 | " PRIVPGM =" | XAUTH PRIVPGM |
| 2015 | " FAC =" | XAUTH FACILITIES |
| 2016 | " ACTION =" | XAUTH ACTION |
| 2017 | " VMUSER =" | XAUTH PRIVPGM |
| 2021 | "ACCESS =" | XAUTH ACCESS LEVELS |
| 2100 | "FACILITY =" | FACILITY |
| 2101 | " AUTH CMDS =" | AUTHORIZED COMMANDS, FLAG |
| 2102 | " EXMP CMDS =" | EXEMPTED COMMANDS, FLAG |
| 2200 | "SOURCES =" | SOURCES |
| 2300 | "OPIDENT =" | OPIDENT, OPPRTY, SITRAN |
| 2301 | "SITRAN =" | SITRAN, FACILITY |
| 2400 | "OPCLASS =" | OPCLASS |

| ID Number | Record Type | Description |
|------------------|--------------------|--|
| 2500 | "SCTYKEY =" | SCTYKEY |
| 2600 | "INSTDATA =" | INSTDATA |
| 2700 | "USER =" | USER, USER TYPE |
| 2800 | "ACIDS =" | ACID, ACID TYPE |
| 2801 | "ACID =" | ACID, ACID TYPE, PROFILE,UNTIL DATE |
| 2901 | "FACILITIES =" | ADMIN AUTHORITY |
| 2902 | "ACID =" | ADMIN AUTHORITY |
| 2903 | "LIST DATA =" | ADMIN AUTHORITY |
| 2904 | "MISC1 =" | ADMIN AUTHORITY |
| 2905 | "MISC9 =" | ADMIN AUTHORITY |
| 2906 | "RESOURCES =" | ADMIN AUTHORITY |
| 2907 | "xxxxxxx =" | ADMIN AUTHORITY |
| 2908 | "MISC2 =" | ADMIN AUTHORITY |
| 2909 | "SCOPE =" | ACID'S SCOPE |
| 2910 | " MISC8=" | ADMIN AUTHORITY |
| 2911 | " ACCESS =" | ADMIN AUTHORITY |
| 2921 | "ACCESS =" | XAUTH ACCESS LEVELS |
| 2930 | "VMMACH=" | VM MACHINE (OWNED) |
| 2940 | "VMRDR=" | VM READER (OWNED) |
| 2950 | "CPCMD=" | CP COMMAND (OWNED) |
| 2960 | "DIAGNOSE=" | VM DIAGNOSE (OWNED) |
| 2970 | "DSPACE=" | VM DATASPACE (OWNED) |
| 2980 | "IUCV=" | VM IUCV (OWNED) |
| 2990 | "SFSCMD=" | VM SFS COMMAND (OWNED) |
| 3000 | "PASSWORD =" | PASSWORD |
| 3001 | "PASSWORD PHRASE" | PASSWORD PHRASE |
| 3090 | "MODE =" | MODE XAUTH |
| 3010 | "DIRECTORY=" | VM SFS DIRECTORY (OWNED) |
| 3020 | "XA IUCV=" | VM IUCV XAUTH |
| 3030 | "XA DSPACE=" | VM DATASPACE XAUTH |

| ID Number | Record Type | Description |
|------------------|--------------------|--------------------------------------|
| 3040 | "XA DIAGNOSE=" | VM DIAGNOSE XAUTH |
| 3050 | "XA CPCMD=" | VM CP COMMAND XAUTH |
| 3060 | "XA VMNODE=" | VM NODE XAUTH |
| 3070 | "XA VMMACH=" | VM MACHINE XAUTH |
| 3080 | "XA VMRDR=" | VM READER XAUTH |
| 3090 | "XA VMMODE=" | VM MODE XAUTH |
| 3100 | "STC =" | STC |
| 3200 | "PHYSKEY =" | PHYSKEY |
| 3250 | "CPFNODES =" | CPFNODE NAMES |
| 3260 | "XA PROGRAM=" | PROGRAM XAUTH |
| 3301 | "RESOURCE CLASS =" | RESOURCE ATTRIBUTES |
| 3302 | " ATTRIBUTE =" | RESOURCE ATTRIBUTES |
| 3303 | " ACCESS =" | ACCESS LEVELS |
| 3304 | " DEFACC =" | DEFAULT ACCESS LEVELS |
| 3400 | "xxxxxxxx =" | EXTENDED ADMINISTRATIVE AUTHORITY |
| 3500 | "TSOLPROC =" | TSOLPROC |
| 3501 | "TSOLACCT =" | TSOLACCT |
| 3502 | "TSOJCLASS =" | TSOJCLASS, TSOHCLASS |
| 3503 | "TSOMCLASS =" | TSOMCLASS, TSOSCLASS |
| 3504 | "TSOLSIZE =" | TSOLSIZE, TSOMSIZE |
| 3505 | "TSOUDATA =" | TSOUDATA, TSOUNIT |
| 3506 | "TSODEFPRFG =" | TSODEFPRFG, TSODEST |
| 3507 | "TSOOPTION =" | OPTIONS |
| 3508 | "TSOCOMMAND =" | TSOCOMMAND |
| 3509 | "TSODEST =" | TSODEST |
| 3510 | "TSOHCLASS =" | TSOHCLASS |
| 3511 | "TSOMSIZE =" | TSOMSIZE |
| 3512 | "TSOSCLASS =" | TSOSCLASS |
| 3513 | "TSOUNIT =" | TSOUNIT |
| 3600 | "SMSSTOR =" | SMSSTOR, SMSMGMT |

| ID Number | Record Type | Description |
|-----------|------------------|-----------------------|
| 3601 | "SMSDATA =" | SMSDATA, SMSAPPL |
| 3700 | "FACILITY =" | FACILITY, ALL |
| 3701 | "DAY =" | FACILITY, DAY, TIME |
| 3702 | "ACTION =" | FACILITY, ACTION |
| 3800 | "DLF =" | DLF RECORD RESOURCES |
| 3810 | "DLF JOBS =" | DLF JOB NAMES |
| 4000 | "ACCOUNT =" | WAACNT |
| 4001 | "NAME =" | WANAME |
| 4002 | "BUILDING =" | WABLDG |
| 4003 | "DEPARTMENT =" | WADEPT |
| 4004 | "ROOM NUMBER =" | WAROOM |
| 4005 | "ADDRESS1 =" | WAADDR1 |
| 4006 | "ADDRESS2 =" | WAADDR2 |
| 4007 | "ADDRESS3 =" | WAADDR3 |
| 4008 | "ADDRESS4 =" | WAADDR4 |
| 4010 | "SEGMENT" | UID SEGMENT NAME |
| 4011 | "SEGMENT SUBSET" | UID SEGMENT SUBFIELDS |

Note: Records with the id number 4100 through 4105 are created as a result of the TSS WHOAMI command.

| ID Number | Record Type | Description |
|-----------|--------------|---|
| 4100 | "ACIDNAME =" | ACIDNAME TYPE MODE NOADSP |
| 4101 | "FACILITY =" | FACILITY NAME TERMINAL LOCKTIME TIMEZONE |
| 4102 | "SYSTEMID =" | SYSTEMID LOG |
| 4103 | "INSTDATA =" | INSTDATA |

| ID Number | Record Type | Description |
|------------------|--------------------|----------------------------|
| 4104 | "BYPASSING =" | SECURITY BYPASS ATTRIBUTES |
| 4105 | "STORAGE =" | STORAGE PROFILES |
| 4110 | "RESOURCE CLASS=" | FDT RESOURCE CLASS |
| 4112 | "SEGMENT =" | FDT RESOURCE SEGMENT |
| 4113 | "MAXLEN =" | FDT RESOURCE MAXLEN |
| 4114 | "DISPLAY =" | FDT RESOURCE DISPLAY |
| 4115 | "ATTRIBUTES =" | FDT RESOURCE ATTRIBUTES |
| 4401 | "UID =" | OMVS UID |
| 4402 | "GID =" | OMVS GID |
| 4403 | "HOME =" | OMVS INITIAL PATHNAME |
| 4404 | "OMVSPGM =" | OMVS STARTUP PROGRAM |
| 4405 | "DFLTPGM =" | OMVS DEFAULT PROGRAM |
| 4501 | "MCSALTG =" | MCS ALTERNATE GROUP |
| 4502 | "MCSAUTH =" | MCS COMMAND AUTHORITY |
| 4503 | "MCSAUTO =" | MCS AUTO CMD ASSIGNMENT |
| 4504 | "MCSCMDS =" | MCS COMMAND DISTRIBUTION |
| 4505 | "MCSDOM =" | MCS DELETE OPERATOR MSGS |
| 4506 | "MCSKEY =" | MCS KEY |
| 4507 | "MCSLEVL =" | MCS MSG LEVEL |
| 4508 | "MCSLOGC =" | MCS LOG CMDS |
| 4509 | "MCSMFRM =" | MCS MSG FORMAT |
| 4510 | "MCSMGID =" | MCS MIGRATION ID |
| 4511 | "MCSMON =" | MCS MONITOR |
| 4512 | "MCSROUT =" | MCS ROUTE CODES |
| 4513 | "MCSSTOR =" | MCS STORAGE |
| 4514 | "MCSUD =" | MCS UNDELIVERED MSGS |

Note: The following records are created as a result of TSS MODIFY commands.

| ID Number | Record Type | Description |
|------------------|-----------------------------------|--|
| 9701 | "TSS0029I =" | MESSAGE RELEASE/GENLEVEL GENERATION DATE/TIME |
| 9702 | "TSS0028I =" | MESSAGE RELEASE/GENLEVEL GENERATION DATE/TIME |
| 9703 | "AUTH ()" DOWN INACTIVE | OVERRIDE ALLOVER |
| 9704 | "LOG ()" MODE MSUSPEND | ALL/NONE MSUSPEND |
| 9705 | "UPCASE ()" VMFAC VTHRESH | YES/NO FACILITY NAME NUMBER SUSPEND |
| 9706 | "PRODUCTS ()" POSIXMGRP | NONE MAXIMUM NUMBER OF POSIX GROUPS |
| 9707 | "OPTIONALS ()" | ACTIVE OPTION NUMBER BLANK |
| 9708 | "NEWPW ()" | NEW PASSWORD MIN WARN MINDAYS LETTER REPEATS ALLOWED |
| 9709 | "PTHRESH ()" PWEXP PWVIEW | VALUE |
| 9710 | "PWHIST ()" | VALUE |
| 9711 | "AUDITING ()" BACKUP CCIVM | INACTIVE/ACTIVE OFF USERID OF CCI MACHINE |

| ID Number | Record Type | Description |
|------------------|--|---|
| 9712 | "DATE ()" DUMP EXIT | DATE 0-9 OFF/ON |
| 9713 | "ID ()" INI RECOVERY | SECFILE ID TIME DATE RECOVERY FILE STATE |
| 9714 | "RESTART ()" SHRFILE SYSOUT | NUMBER ALLOWED FILE SHARING? DIRECT OUTPUT TO? |
| 9715 | "TIMER ()" VMLOGID RDT2BYTE () | TIMER TICKS ALLOWED NAME IN UTIL REPORT 2 BYTE RESCODE SUPPORT |
| 9716 | "BATCH ()" | BATCH MACHINE NOW INACTIVE |
| 9717 | "BATCHJ =" | JOB NUMBER NOW RUNNING JOB RUNNING THIS PROGRAM JOB RUNNING UNDER THIS ACID JOB FOR THIS USER JOB USING THIS MUCH STORAGE BATCH JOB |
| 9718 | "STORAGE ()" | NUCLEUS USING THIS MUCH MEMORY THIS MUCH USED BY SYSTEM THIS MUCH TOTAL FREE STORAGE FREE STORAGE IN USE FREE STORAGE AVAILABLE |
| 9719 | "DEBUG ()" IOTRACE | DEBUG SETTING IOTRACE SETTING |
| 9721 | "SECTRACE ()" | SECTRACE SETTING |
| 9722 | "SECFILE ()" | PERCENTAGE FILE IS FULL |
| 9723 | "AUDFILE ()" | MVS DSN |
| 9724 | "RECFILE ()" | |
| 9725 | "BKPFIL ()" | |
| 9726 | "AUDFILE ()" | |

| ID Number | Record Type | Description |
|------------------|--|---|
| 9727 | "CPFFILE ()" | |
| 9728 | "CPF ()" CPFWAIT CPFTARGET | CPF VALUE CPFWAIT VALUE CPFTARGET VALUE |
| 9729 | "CPFOUT ()" CPFLOCAL CPFRCVUND | CPFOUT VALUE CPFLOCAL USERID VIRTUAL PRINTER CUU OUTPUT CLASS CPFRCVUND VALUE |
| 9730 | "CPFTRACE ()" | CPFTRACE VALUE |
| 9731 | "CPFNODE ()" STATUS JOURNAL | SPECIFIC NODE ACTIVE/INACTIVE SPOOL RETRY PRE50 JOURNAL NUMBER OUTPUT CLASS |
| 9732 | "AUD () BAT () CFC () | VALUE OF FIRST FIELD |
| 9733 | CHG ()" | VALUE OF SECOND FIELD |
| 9734 | "HVC () INI () IOR () | VALUE OF THIRD FIELD |
| 9735 | IOW ()" | VALUE OF FOURTH FIELD |
| 9736 | "IUR () IUP () REC () SEC ()" "SRI () VIO ()" "LOK () LWT ()" | |
| 9740 | "ADMINBY ()" EXPDAYS | ADMINBY SETTING EXPDAYS SETTING |
| 9741 | "DFLTRNGU" | Default UID range |
| 9742 | "DFLTRNGG" | Default GID range |
| 9999 | " = " | UNDEFINED RESOURCE |

TSSCFILE Condition Codes

The TSSCFILE condition code issued is extracted from the TSS command processor. If more than one TSS LIST command function is input to TSSCFILE, the condition code issued is the highest (most severe) code returned from TSS LIST. Listed below, are exceptional conditions:

- 998-CA Top Secret is inactive.
- 999-PRINT DD statement is missing

There is only one specific abend code related to TSSCFILE.

- 1001 TSSCFILE-ERROR CHECKING USER AUTHORIZATION
- ACTION-Contact Computer Associates and send the dump.

Chapter 6: TSSREPT Utility

This section contains the following topics:

[About TSSREPT](#) (see page 99)

[TSSREPT Selection Screen](#) (see page 99)

[TSSREPT Option 1](#) (see page 100)

[TSSREPT Option 2](#) (see page 108)

About TSSREPT

TSSREPT applies the capabilities of CA-EARL, an easy-to-use report language, to Security File information using the output of TSSCFILE or audit information using the EARLOUT option of TSSUTIL, to provide formatted summaries of CA Top Secret data. This expanded reporting function gives you the capability to generate additional administrative and audit summary reports.

Eleven sample reports are described in this section. The default parameters shown enable you to run the samples as given. Optional parameters help you to tailor the reports exactly to fit your needs. These reports can also be customized through the use of TSSCFILE, TSSUTIL and CA-EARL statements. As an example, the following command limits the report output to selected user ACIDs within the Personnel Department:

```
TSS LIST(ACIDS) DEPT(PERSONEL) TYPE(USER)
```

The following command limits the report output to password violations by users in the Payroll Department:

```
REPORT EARLOUT DRC(PW) DEPT(PAYDEPT)
```

TSSREPT Selection Screen

Interactive screens are available to create, save, and view reports generated by TSSREPT. Defaults are defined at installation. Enter TSSREPT and the report selection screen appears.

- (9)-Supply the server's job id
- (10)-Check here to save CFILE
- (11)-You may accept the default name for the CFILE or supply another
- (12)-If static (for file) is checked, see (13)
- (13)-You may accept the default name for the CMS fileid or supply another
- (14)-You may either accept the default name for the TSSREPT report or supply another
- (15)-Enter either v for viewing or s for creating the specified reports 1 through 7
- (16)-If an EARL program is used, supply the name

Note: This screen is a two-step process: The upper part of the screen about the CFILE request must be filled in first. Interactive messages will guide you through the process. When the PUN and PRT files are returned, you can then fill in the lower portion of the screen about the CA Top Secret report selection.

Report #1 INACTIVE ACIDS

| PF Key | Assignments: |
|---------------|--|
| PF1=Help | Invokes the Help Facility |
| PF2 | Not applicable for TSSREPT |
| PF3=End | Exits TSSREPT |
| PF4=Return | Exits TSSREPT |
| PF5=Execute | Performs the selected action |
| PF6 | Not applicable for TSSREPT |
| PF7=SaveCurr | Saves the current entered values |
| PF8=GetSaved | Re-displays the saved values |
| PF9=Refresh | Re-displays screen, no previous entries are saved |
| PF10 | Not applicable for TSSREPT |
| PF11 | Not applicable for TSSREPT |
| PF12 | Moves cursor between command line and previous screen position |

Lists all ACIDs that are inactive. An ACID is considered "inactive" and will be denied access to the system after a specified amount of time that was pre-determined with the INACTIVE control option.

INACTIVE(nnn)

nnn

This number should be set to match the installation-selected CA Top Secret INACTIVE control option parameter, which is any number from 0 to 255.

Output Fields

ACID

Lists the resulting inactive ACIDs.

NAME

Lists the user's name associated with each ACID.

DATE ON WHICH ACID BECAME INACTIVE

Lists the date CA Top Secret denied the ACID access to the system.

A 1980 date under this header means that the user's password had been assigned the EXP parameter (to expire immediately).

The TSS command for TSSCFILE for this particular report is:

```
TSS LIST(acids) DATA(ALL,PASS)
```

REPORT #2: EXPIRED ACIDS

Lists all ACIDs that are expired.

PARM=

There are no input parameters for this report.

Output Fields

ACID

Lists the expired ACIDs.

NAME

Lists the user's name associated with each ACID.

DATE ON WHICH ACID EXPIRED

Lists the date each ACID expired.

REPORT #3: SUSPENDED ACIDS

Lists all ACIDs that are suspended.

PARM=

There are no input parameters for this report.

Output Fields

ACID

Lists the suspended ACIDs.

PROFILE INDICATOR

A P in this column means that the listed ACID is a profile ACID.

NAME

Lists the name associated with each listed ACID.

DATE ON WHICH ACID WILL RESUME

Output appears here only if the ACID in question has been temporarily suspended. This is the date it will resume after the temporary suspension.

REPORT #4: ACID NAMES

Lists ACIDs in alphabetical order by name. The following parameters may be used to specify the order in which the user wants the ACIDs sorted. One and only one of the first four parameters must be specified; the delimiter and A or D are optional.

FIRST|LAST|Pnn|Cnn[,delimiter][,A|,D].

FIRST

This parameter sorts by first name, starting with the first nonblank character in the name field.

LAST

This parameter sorts by last name, starting with the first character following the last delimiter found, or, if no delimiters are found, starts with column 1.

Pnn

This parameter sorts by nnth positional subfield. The subfield to be sorted starts with the first character after the (nn-1)th delimiter and ends with the next delimiter or the last character in the name field, whichever occurs first. If a subfield specified is outside the range of fields found on a name being sorted, the following error message will be generated:

SUBFIELD nn WAS NOT FOUND IN THE NAME FIELD

Cnn

This parameter sorts by the entire name field, beginning with column nn (with nn equalling a number 1 through 20), and ending with the last character in the name field.

delimiter

This parameter is optional. It cannot be used if Cnn was used. The delimiter is the one-byte character indicating a separation between positional subfields within the ACID name (such as a comma, blank, or hyphen). Default is a blank.

A

(Default) This parameter is a default. It sorts in ascending alphabetical order (EBCDIC collating sequence). If this parameter is selected, a report is also generated in descending order, with the note: "Descending order report not selected for this run." Conversely, a request for descending order will result in the additional ascending-order report and note.

D

This parameter sorts in descending alphabetical order. A.

Enter your parameters exactly as shown above. For example, even if the delimiter you select is a comma, you must still use a comma before this delimiter, as in the following example:

PARM='P8,,D'

Output Fields

The report title indicates which options were selected, and which delimiter, if any, is used.

NAME

Lists the given names in the order specified.

ACID

Lists the ACID associated with each name.

REPORT #5: LIST OF ACIDs

Lists ACIDs in alphabetical order by selected positions within the ACID.

[Scc][,Ecc][,A],D]

Scc

This parameter sorts by starting column position within the ACID. Select column one through eight. This parameter is optional. Default is S1.

Ecc

This optional parameter sorts by ending column position within the ACID. The default is E8. Select column 1 through 8, but the number must be greater than or equal to Scc. If an Ecc is specified that is less than Scc, the job will terminate execution and the following message will appear in place of the report:

INVALID PARAMETER-NO REPORT PRODUCED

A

(Default) This is the default parameter. This parameter sorts in ascending alphabetical order (EBCDIC collating sequence). If this parameter is selected, a report is also generated in descending order, with the note: "Descending order report not selected for this run." Conversely, a request for descending order will result in the additional ascending-order report and note.

D

This parameter sorts in descending alphabetical order.

Output Fields

The report title indicates whether ascending or descending order was selected, and which starting and ending column positions were selected for the sort.

ACID

Lists the ACIDs in the order specified.

NAME

Lists the given name for the ACIDs being listed.

REPORT #6: WHO HAS ATTRIBUTES

Lists ACIDs that have the attribute specified.

[attribute]

attribute

The attribute is any CA Top Secret attribute that may be assigned to a user or profile ACID.

Output Fields

ACID

Lists the ACIDs that have the attribute.

PROFILE INDICATOR

A P under this header indicates that the ACID is a profile ACID.

NAME

Lists the given name for the ACIDs being listed.

ATTRIBUTES

Refers to the attribute specified. An asterisk appears before each BYPASS attribute: NODSNCHK, NOVOLCHK, NOLCFCHK, NOSUBCHK, NORESCHK. When an ACID having the attribute requested is found, all of that ACID's attributes (either BYPASS or non-BYPASS) will be shown. If no PARM was specified, all ACIDs having any attribute will be shown.

REPORT #7: WHO HAS ADMINISTRATIVE AUTHORITIES

Lists ACIDs that have administrative authorities, and their scope of authority.

PARM=

There are no input parameters for this report.

Output Fields

ACID, TYPE, and SCOPE OF AUTHORITY listings appear on the first line of this report; AUTHORITY TYPE and AUTHORITY LEVEL appear on the second line, and ACCESS levels, if any, are on the third line.

ACID

Lists the ACIDs.

TYPE

Lists each ACID type: MASTER, CENTRAL, DIV C/A, DEPT C/A, PROFILE or USER.

SCOPE OF AUTHORITY

Lists scope of authority, with the format:

ACIDNAME(scope)

If the TYPE is MASTER or CENTRAL, the scope is ALL.

AUTHORITY TYPE

Authority type will be one of the following: FACILITY, ACID, LIST DATA, MISC1, MISC9, RESOURCE, or a predetermined specific resource class name, such as DATA SET.

AUTHORITY LEVEL

The ACID's authority levels are listed after Authority Type.

ACCESS

After [authority level]:XAUTH, "access" indicates the access levels the ACID may use to cross-authorize (PERMIT) users to the corresponding resource after [authority type].

The TSS command for TSSCFIL for this particular report is:

TSS LIST(acids) DATA(ALL)

TSSREPT Option 2

Reports A through D are described on the following pages. Input parameters, if any, appear in the boxes and are followed by definitions of both required and optional parameters. The following OUTPUT FIELDS define the headers that appear on the report output.

The DATE format for each report is MM/DD/YY. This can be modified with the CA-EARL installation options.

```

CAKV-R002                CA Top Secret Report Facility                TSSREPT
====>

Select the type of UTILX request:  (2)                (3)                (4)
_ dynamic, from TSS server: TSSVM__ node: _____ with password:
(1)  TSSUTIL command(s) or _ command file TSSREPT_ TSSLIST_ A_ to execute:
                (6)                (7)

REPORT EARLOUT_____
_____ (5)_____
_____
(8)                (9)
_ static, UTILX in virtual reader, enter the jobid of its TSSUTIL JOB: ____
(10) _ Check here to save UTILX as: TSSUTILX SAVED__ A_ (11)
_ static, UTILX on minidisk, enter its CMS fileid: TSSUTILX SAVED__ A_
(12)                (13)

                (14)
Select the TSS report ( v - view, s - create and save as TSSREPTn LISTING_ A_ )
_ Report A: # violations by VMMD/DSN _ Report B: VMMD/DSN violations
_ Report C: Password violations _ Report D: Terminal violations
(15) _ Report produced by EARL pgm: __ (16) __
Input parameter for EARL (if any): _____
PF1=Help      2=          3=End      4=Return    5=Execute    6=
PF7=SaveCurr  8=GetSaved  9=Refresh  10=         11=          12=Cursor

```

The following information is presented in the display:

- (1)-If dynamic is checked, see (2) - (7)
- (2)-The VM server machine ID
- (3)-The node if different from where you are
- (4)-A password (up to eight characters)
- (5)-Supply TSSUTIL commands if appropriate
- (6)-If the command file is checked, see (7)
- (7)-You may accept the default name for the command file or supply another
- (8)-If static (for virtual reader) is checked, see (9) - (10)
- (9)-Supply the server's job id

- (10)-Check here to save UTILX
- (11)-You may accept the default name for the UTILX or supply another
- (12)-If static (for file) is checked, see (13)
- (13)-You may accept the default name for the CMS fileid or supply another
- (14)-You may either accept the default name for the TSSREPT report or supply another
- (15)-Enter either v for viewing or s for creating the specified reports A through D
- (16)-If an EARL program is used, supply the name

Note: This screen is a two-step process: The upper part of the screen about the UTILX request must be filled in first. Interactive messages will guide you through the process. When the PUN and PRT files are returned, you can then fill in the lower portion of the screen about the CA Top Secret report selection.

| PF Key | Assignment |
|---------------|--|
| PF1=Help | Invokes the Help Facility |
| PF2 | Not applicable for TSSREPT |
| PF3=End | Exits TSSREPT |
| PF4=Return | Exits TSSREPT |
| PF5=Execute | Performs the selected action |
| PF6 | Not applicable for TSSREPT |
| PF7=SaveCurr | Saves the current entered values |
| PF8=GetSaved | Re-displays the saved values |
| PF9=Refresh | Re-displays screen, no previous entries are saved |
| PF10 | Not applicable for TSSREPT |
| PF11 | Not applicable for TSSREPT |
| PF12=Cursor | Moves cursor between command line and previous screen position |

REPORT A - DATA SET VIOLATIONS

Generates a list of all violations against data sets. This list is sorted by ACID and indicates the number of violations per data set.

PARM=

There are no input parameters for this report.

Output Fields

ACID

Lists the ACID responsible for the data set violation.

DATASET NAME

Lists the name of the data set the user attempted to access.

VIOLATIONS

Lists the number of violations against each data set.

For TSSUTIL report selection criteria you would select:

EVENT(VIOL).

REPORT B - REQUESTED VS. ALLOWED ACCESS

Lists all access violations against each data set and indicates which ACID requested access, what type of access was requested and what access level was allowed for that ACID. This list is sorted according to data set name.

PARM=

There are no input parameters for this report.

Output Fields

DATE

Indicates the date when the ACID attempted to access the data set.

TIME

Indicates the time at which access was attempted.

DATASET NAME

Indicates which data set the ACID attempted to access.

ACID

Indicates the ACID which incurred the violation.

REQ ACCESS

Indicates what access level the ACID requested to the data set.

ALLOWED ACCESS

Indicates the actual level at which the ACID is allowed to access the data set.

For TSSUTIL report selection criteria you would specify:

EVENT(VIOL).

mm/dd/yy

ADMI

REPORT C - PASSWORD VIOLATIONS

Lists all ACIDs that have received password violations.

PARM=

There are no input parameters for this report.

Output Fields

DATE

Lists the date that the violation occurred.

TIME

Lists the time that the violation occurred.

ACID

Indicates which ACID incurred the violation.

TSSTEXT

Details, in plain language rather than in DRC code numbers, the type of password violation which occurred.

For TSSUTIL report selection criteria you would specify:

EVENT(VIOL).

REPORT D - TERMINAL VIOLATIONS

Generates a list of all terminal violations. The type of violation will be explained in text, not by DRC code.

PARM=

There are no input parameters for this report.

Output Fields

DATE

Indicates the date on which the violation occurred.

TIME

Indicates the time that the violation occurred.

TERM ID

Indicates the terminal at which the violation occurred.

TSSTEXT

Details the type of violation that occurred.

For TSSUTIL report selection criteria you would specify:

EVENT(VIOL) RES(TERM)

Chapter 7: TSSCPR Utility

This section contains the following topics:

[About TSSCPR](#) (see page 113)

[TSSCPR Required JCL](#) (see page 113)

[TSSCPR Sample Output](#) (see page 113)

About TSSCPR

TSSCPR is a utility program designed to show the submitting administrator what CA Top Secret commands are still pending in the optional CPF Recovery File. This report identifies the origin of the command, the targeted node, a transaction identification number, and the command itself. Passwords are always replaced by a "?".

Note: This utility can only be run by an SCA type acid.

TSSCPR Required JCL

The following JCL is required to run the TSSCPR utility in a z/VM environment:

```
//TSSJOB ACID=acid,PASSWORD=password  
//EXEC PGM=TSSCPREC  
PRINT CPF RECOVERY
```

TSSCPR Sample Output

A sample TSSCPR output file is provided below:

If originating ACID is "*MASTER*" then the command is system generated. Also passwords will always be replaced by a "?".