ACF2 Training Class
Table of Contents

Revised: 10/22/84

Revised: 10/22/84

acf2

The Access Control Facility

SESSION 1

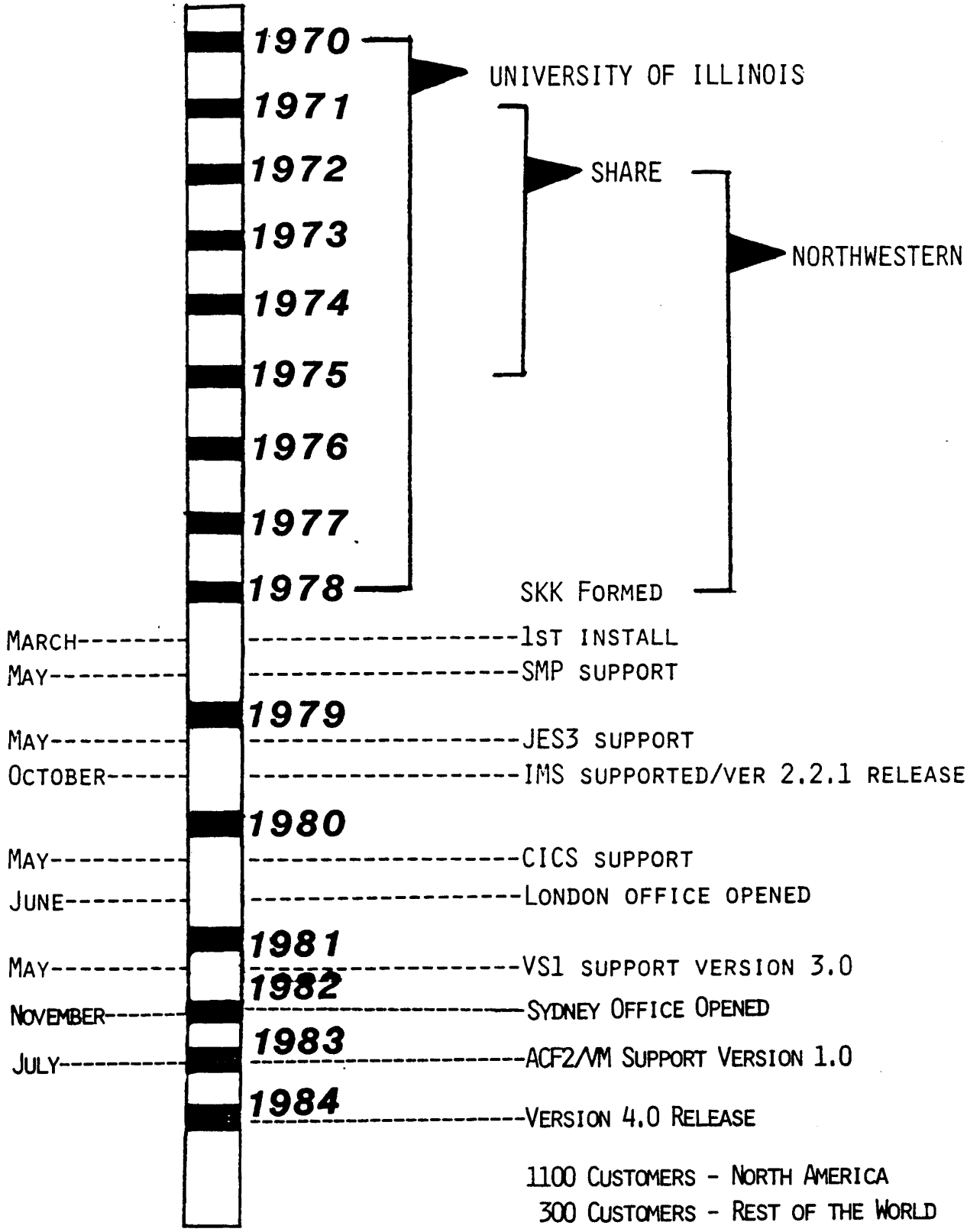
INTRODUCTION

TO

ACF2

10/10/84

SKK HISTORY



1100 CUSTOMERS - NORTH AMERICA
300 CUSTOMERS - REST OF THE WORLD

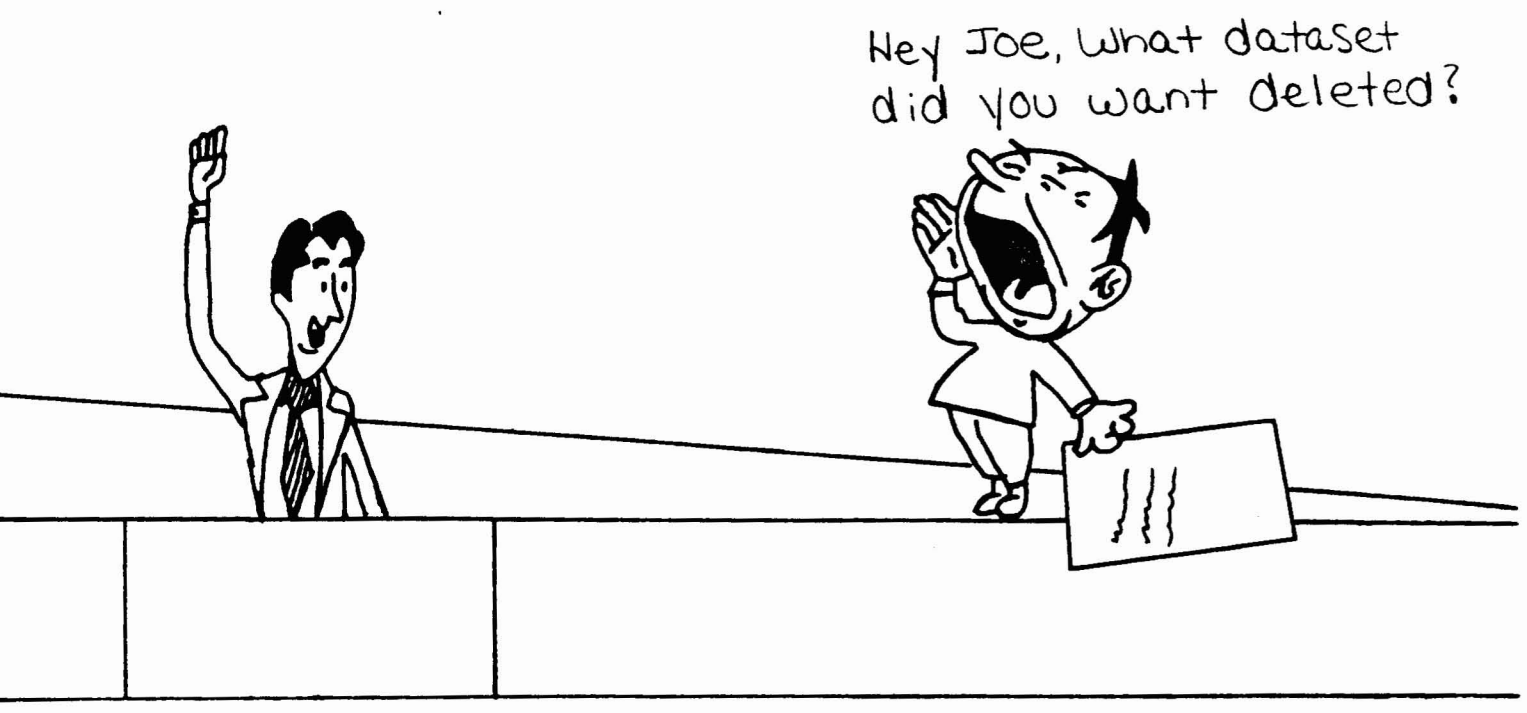
DATA SECURITY

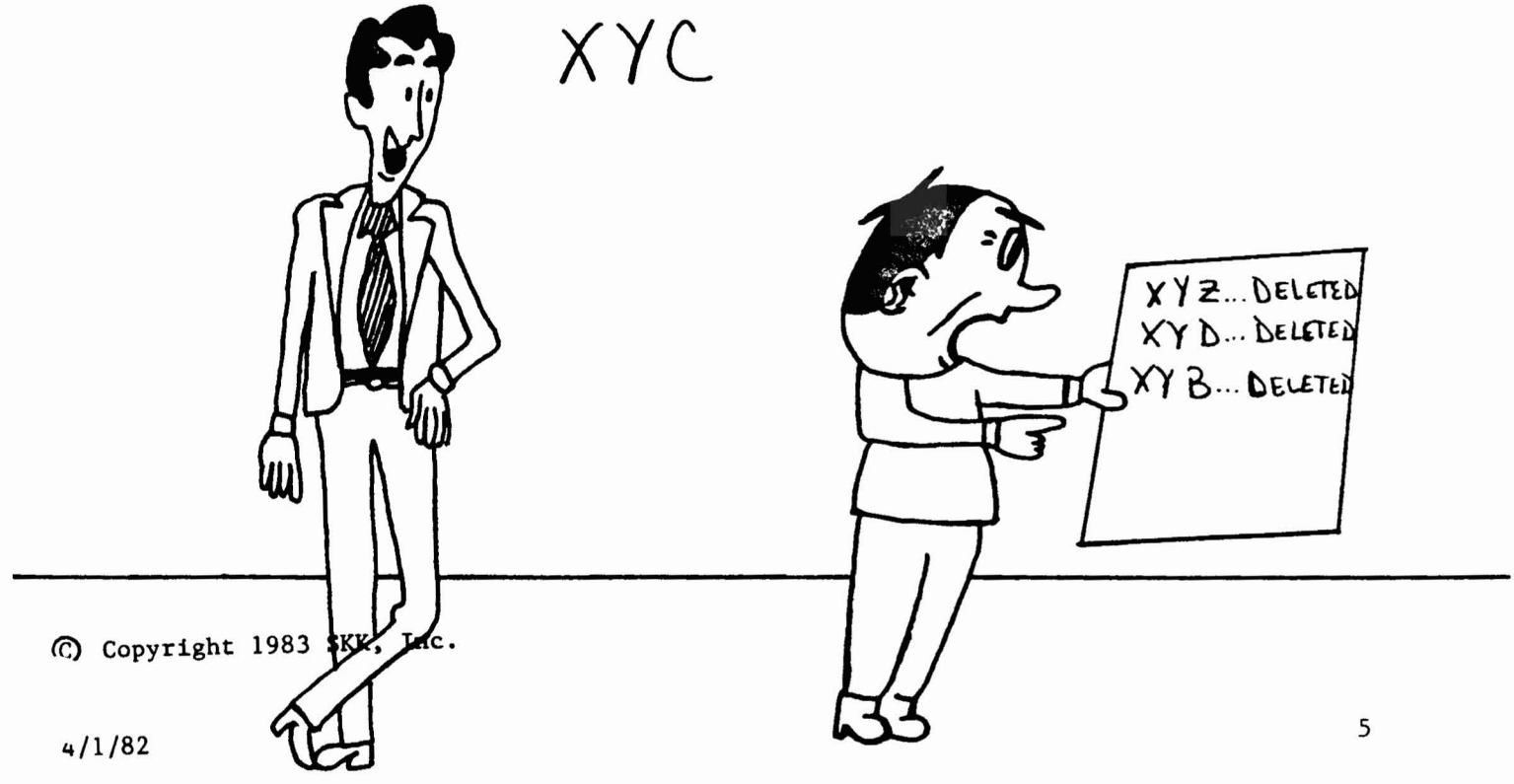
Protection of resources and data on a computer system from unauthorized destruction, disclosure or modification

Revised: 3/7/83

WHITE COLLAR WORKER

ACCIDENTAL DESTRUCTION





WHAT CAN/DOES ACF2 CONTROL?

ENTRY TO THE SYSTEM

- *Job Submission*
- *TSO*
- *STC*
- *IMS**
- *CICS**
- *IDMS**

ACCESS TO DATASETS:

- *Tape*
- *Disk*
- *MSS*

ACCESS TO RESOURCES:

- *CICS Transactions**
- *CICS Programs**
- *CICS Files**
- *IMS Transactions**
- *IDMS Resources**
- *TSO Commands*
- *TSO Account Numbers*
- *TSO Procedures*

* REQUIRES INTERFACE

Revised: 10/22/84

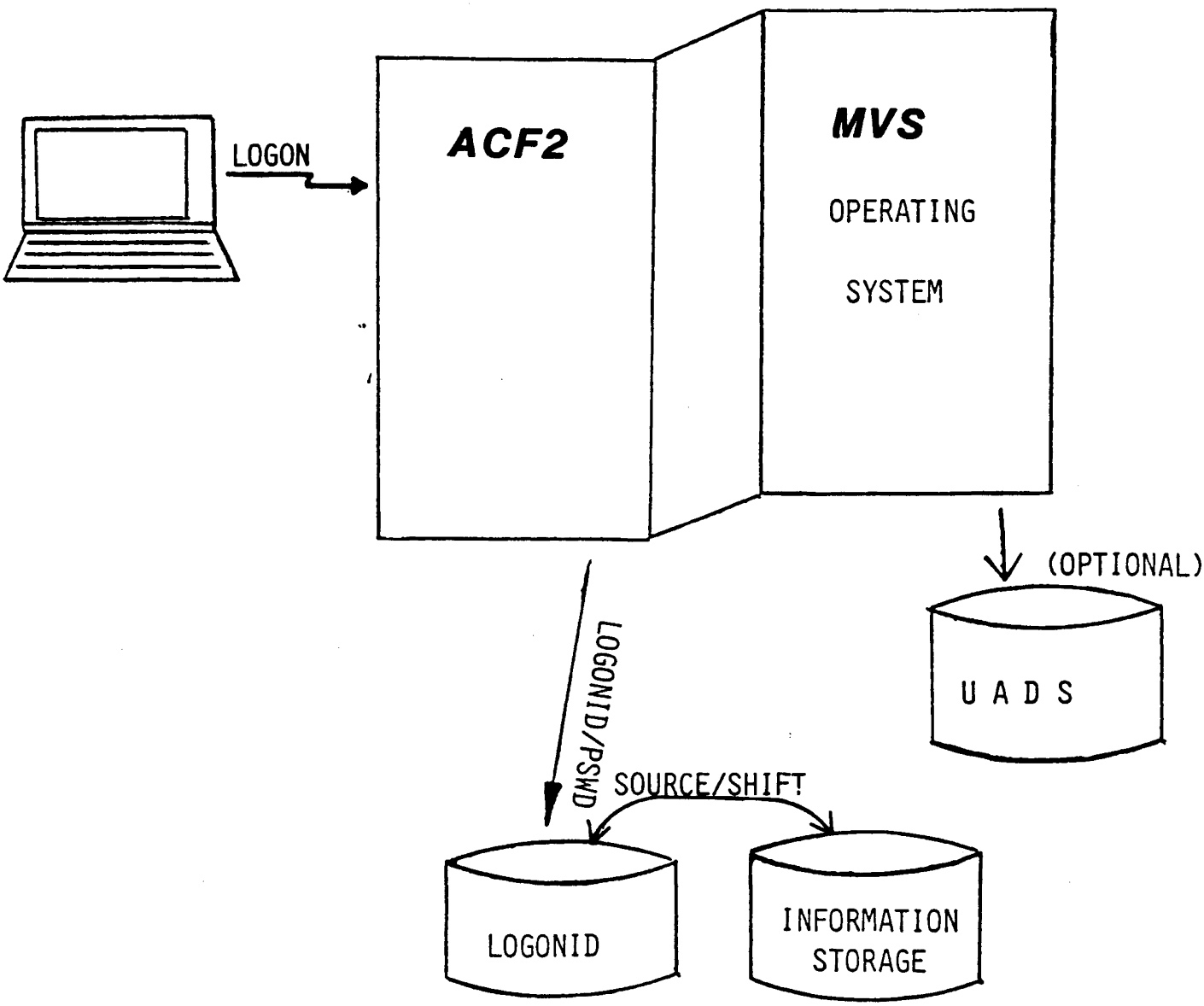
PHYSICAL ACCESS CONTROLS

- Computer Room
- System Consoles
- Input/Output
- Tape
- Disk

ACF2 DESIGN PHILOSOPHY

•DEFAULT PROTECTION

-ACF2 Logonid/Information Storage Databases

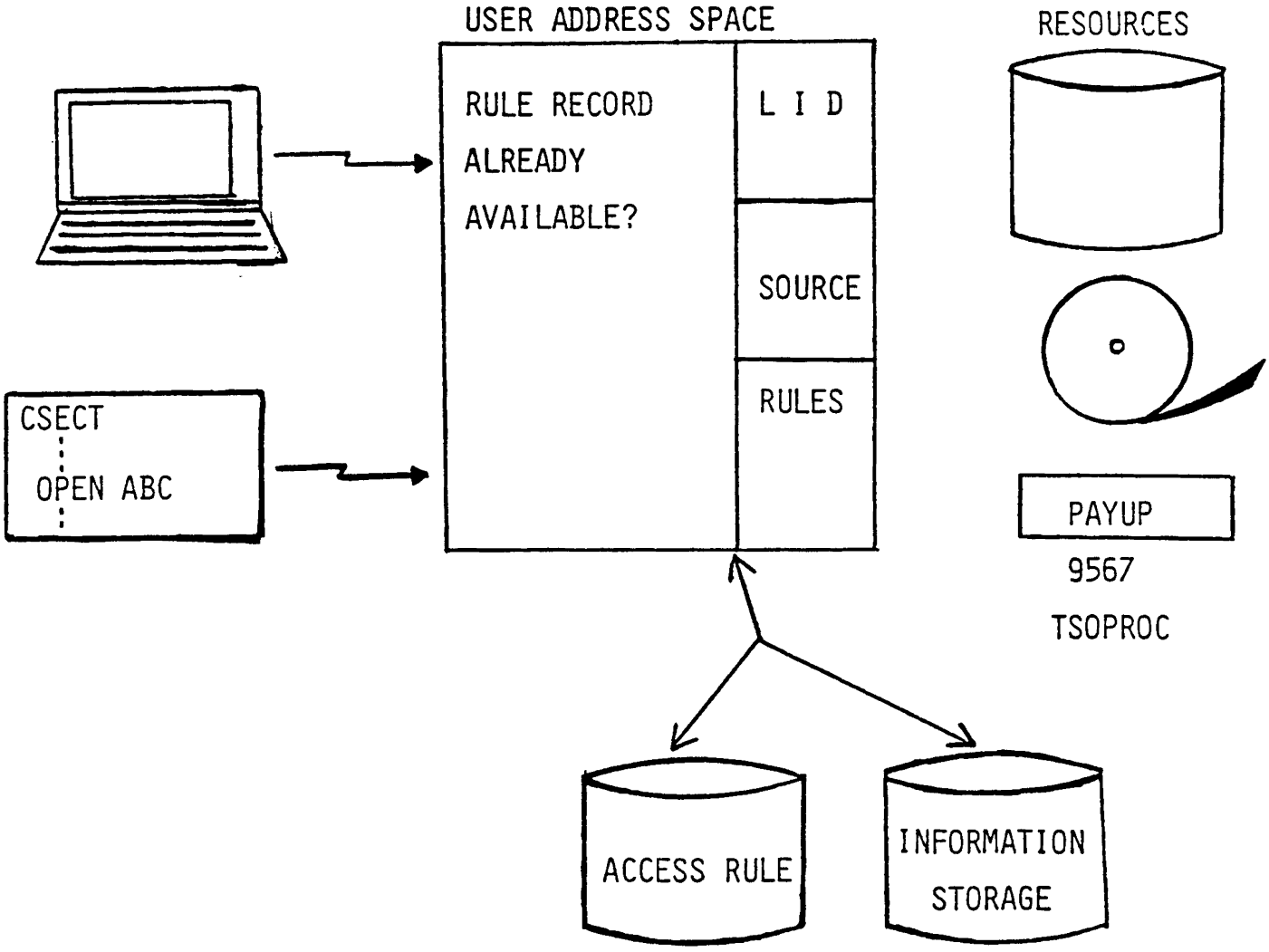


Revised: 1/23/84

ACF2 DESIGN PHILOSOPHY

•DEFAULT PROTECTION

– ACF2 Access Rule/Information Storage Databases

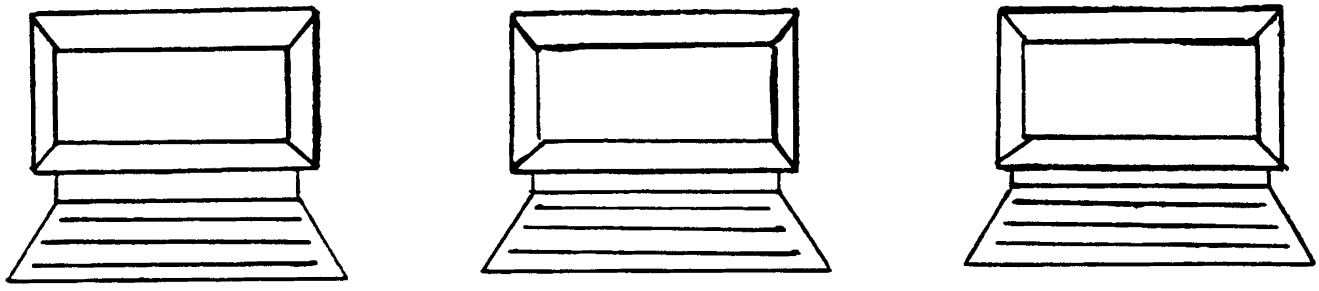


Revised: 10/5/84

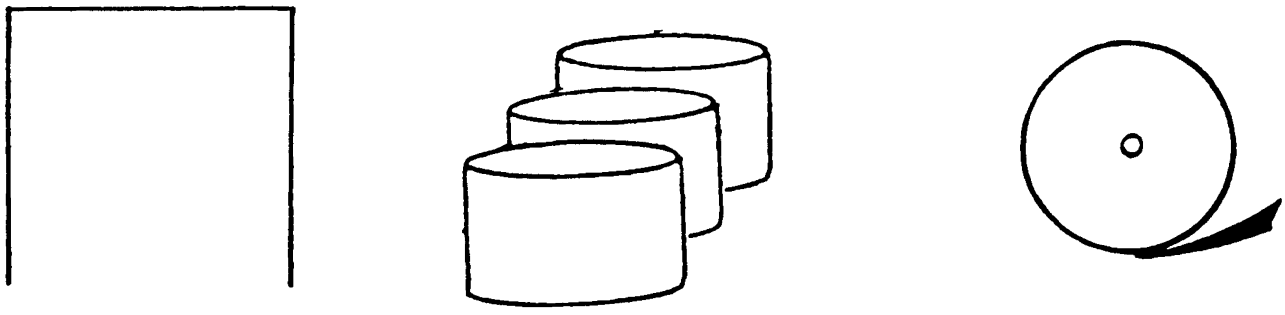
ACF2 DESIGN PHILOSOPHY

•DEFAULT PROTECTION

ACF2 automatically protects data from access by users other than the data owner



MSS



Access rules allow the controlled sharing of resources

Revised: 1/23/84

ACF2 DATABASES

- 3 VSAM Key-Sequenced Datasets
- Accessed via a Globally Shared Resource Pool (GSR)
- Shared-DASD Support
- Automatic Daily Backup
- All Changes Journalled
- Recovery Utility Provided

Revised 7/27/83

LOGONID DATABASE

- One Record per User
- Central Source for All User Data
- Dynamic Update Facility
- Maintained by "Account Manager"
- 384 Characters of Storage per Record for Installation Defined Information

SYSTEM ENTRY VALIDATION

PURPOSE - IDENTIFY USERS

- Information From User
  - *Logonid*
  - *Password*
  - *Operator Identification Card (OID)*
- Information From System
  - *Input Source*
  - *Date and Time*

Revised: 10/5/84

SYSTEM ENTRY VALIDATION

REQUIREMENTS

1) Valid Logonid

2) Valid Password

3) Valid OID Information

4) Valid Input Source

5) Valid Shift

6) Valid Access Type
(TSO,IMS,etc.)

Revised: 10/17/84

SYSTEM ENTRY SOURCES

TSO Terminals

IMS/CICS Terminals

Remote Readers

Local Readers

Internal Readers

Revised: 5/7/84

SYSTEM ENTRY VALIDATION REQUIREMENTS

OTHER CONDITIONS

Attempts Per Logon

Violation Limit

Password Length

Changing Passwords

Revised: 4/25/84

ACCESS RULE DATABASE

One Record per Rule Set

One Rule Set per DSN High-Level Index and/or Volume Protected VOLSER

Sharing Conditions Defined via Rules

Dynamic Update Facility

Maintained by "Security Officer"

Revised: 7/27/83

ACCESS RULE VALIDATION PROCESS

- User Identification
- Resident Volume Check
- Secured Volume Check
- Owner Access
- Access Rule Check

Revised: 4/25/84

DATASET/VOLUME ACCESS ENVIRONMENTAL CONDITIONS

- User or User Groups
- Input Source
- Shift Control
- Program Path
- Rule Expiration Date

Revised: 7/27/83

ACCESS TYPES

Read

Write

Allocate

Execute

ACCESS PERMISSIONS

Allow

Log

Prevent

INFORMATION STORAGE DATABASE

Multiple Record Types Available

Dynamic Update Facility

Maintained by "Security Officer"

Revised: 7/27/83

GENERALIZED RESOURCE EXAMPLES

IMS Transactions *

IMS Application Group Names *

CICS Transactions *

CICS Programs *

CICS Files *

IDMS Resources *

TSO Account Numbers

TSO Procedure Names

* ***Requires interface***

Revised: 10/18/84

RESOURCE RULE VALIDATION

User Identification

VS.

Generalized Resource Rules

Revised: 7/27/83

RESOURCE ACCESS ENVIRONMENTAL CONDITIONS

- User or User Groups
- Input Source
- Shift Control
- Rule Expiration Date

ACCESS PERMISSIONS

ALLOW

LOG

PREVENT

GLOBAL SYSTEM OPTIONS

* ACFFDR

- Controlled by "SECURITY OFFICER"

- Defined by "SYSTEM PROGRAMMER"

- Normally static, configuration options

* INFORMATION STORAGE

- Maintained by "SECURITY OFFICER"

- Can be changed dynamically

Revised: 10/5/84

INFORMATION STORAGE "GSO" RECORDS

Operational Options

Password Management

Secured Volumes

TSO Defaults

Local Exits

Revised:

ACFFDR OPTIONS

Logonid Record Elements

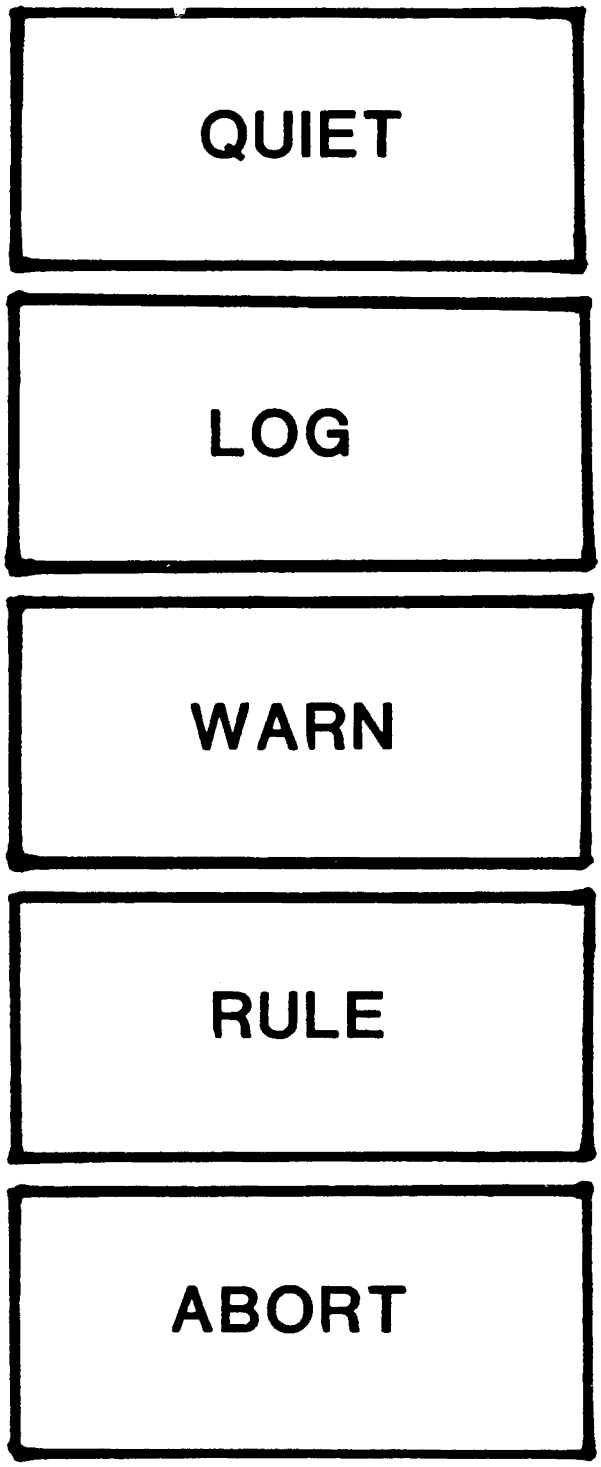
SMF Record Numbers

ACF2 Database Names

SVC Numbers

Revised: 10/10/84

ACF2 MODES



Revised: 6/7/83

AUDITING AND LOGGING CONTROLS

Logged Programs

BLP Loggings

TSO Command Stats

Logonid Stamp in SMF Records

ACF2 COMMANDS

COMMANDS AVAILABLE TO

CREATE/CHANGE/DISPLAY/DELETE:

LOGONID RECORDS

ACCESS RULE SETS

GENERALIZED RESOURCE RULES

GLOBAL SYSTEM OPTIONS

ENTRY LISTS

SHIFT RECORDS

ZONE RECORDS

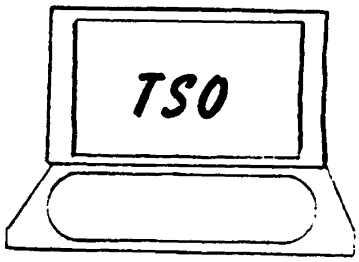
SCOPE LISTS

DISPLAY HELP MEMBERS

ACF2 OS COMMANDS FROM OPERATOR CONSOLE

Revised: 10/08/84

4 WAYS TO ENTER ACF2 COMMANDS *

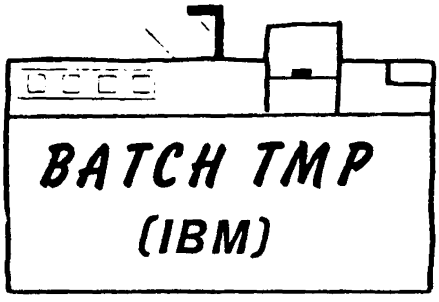


① TSO Ready Mode

LOGON TSO
READY
ACF2 COMMANDS

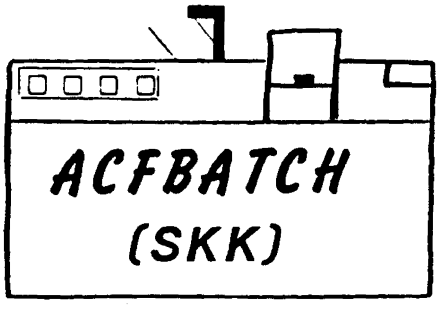
② SPF Options

SPF OPTION A



③ Simulate TSO Ready Mode

```
//JOB1 EXEC PGM=IKJEFT01,DYNAMNBR=25
//SYSTSIN DD*
ACF2 COMMANDS
```



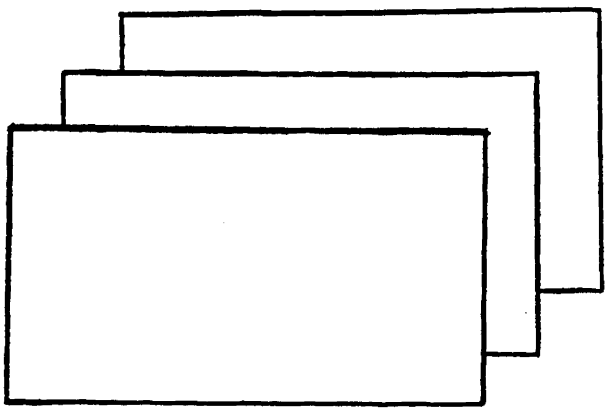
④ Execute Thru Batch

```
//JOB1 EXEC PGM=ACFBATCH
//SYSIN DD *
ACF2 COMMANDS
```

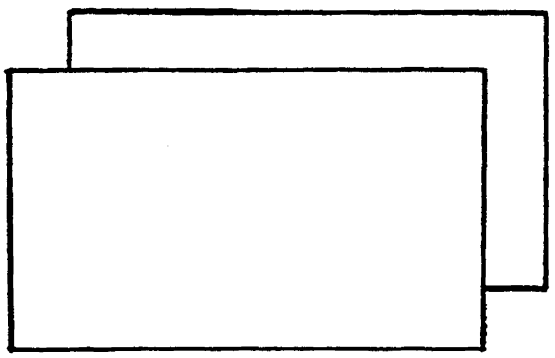
VS1 = ACFBATCH ONLY

Revised: 7/27/83

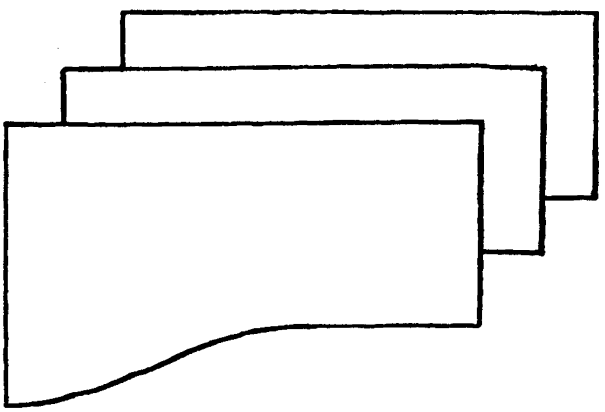
ADDITIONAL AIDS



Utilities



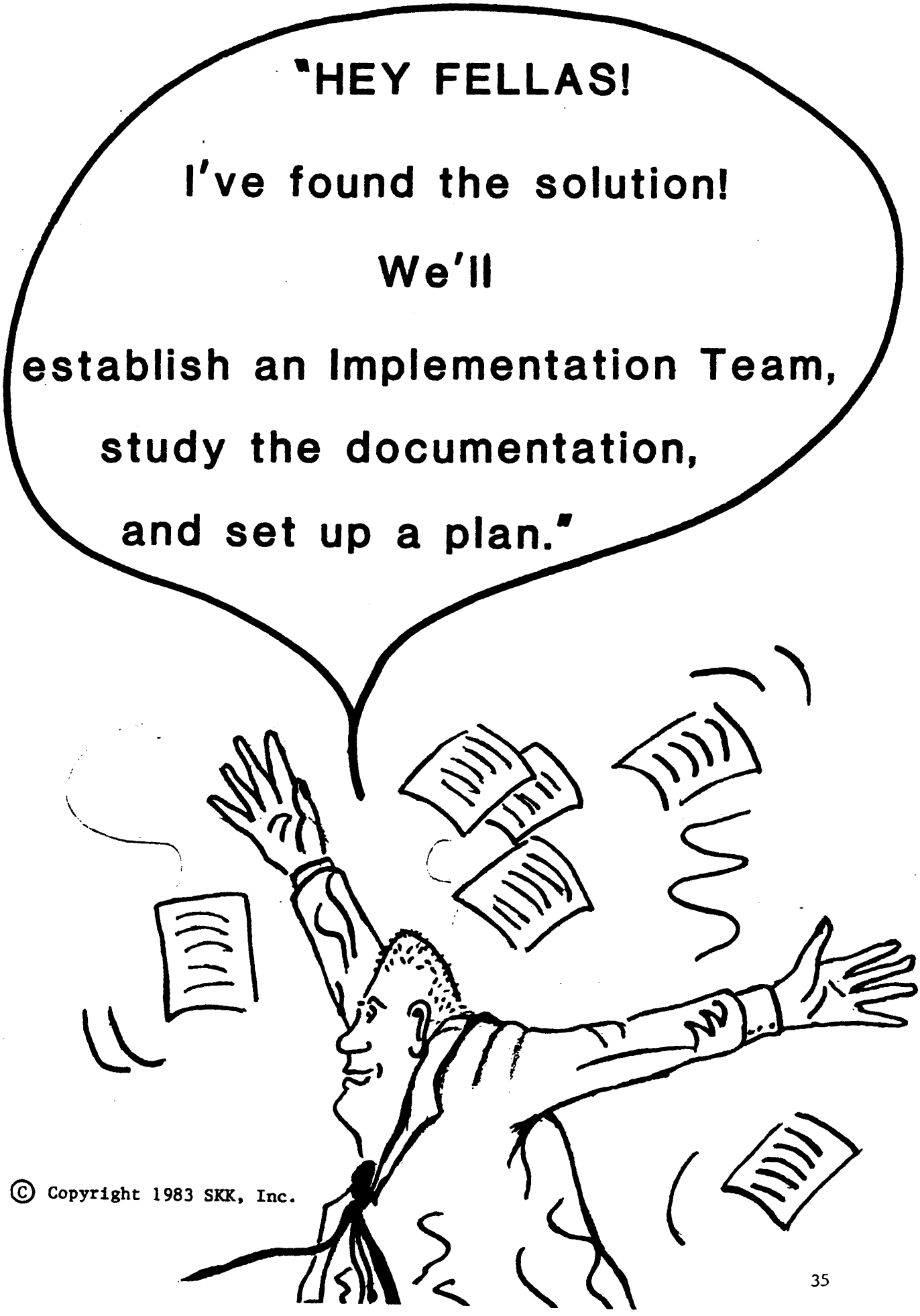
Backup/Recovery



Report Generators

Revised: 3/1/83

IMPLEMENTATION OF ACF2



ESTABLISH IMPLEMENTATION TEAM

- Installation Security Officer (ISO)
- System Programmer (ACF2 Maintenance)
- Datacenter Operations Person
- User Support Person
- Internal Auditor

IMPLEMENTATION TEAM DUTIES

- ESTABLISH IMPLEMENTATION PLAN
- DEFINE RELEVANT CORPORATE/SYSTEM SECURITY PHILOSOPHIES, ORGANIZATION STRUCTURES, NAMING CONVENTIONS, ETC.
- DEFINE SECURITY POLICY
- SELECT SYSTEM OPTIONS, INCLUDING UID STRING
- DEFINE RESPONSIBILITIES AND AUTHORIZATION
- DEFINE BASIC USER ATTRIBUTES
- REVIEW TECHNICAL CONSIDERATIONS
- IDENTIFY SPECIAL LOCAL REQUIREMENTS (EXIT CODING, SPECIAL PROCEDURES, ETC.)
- INITIATE RULE WRITING
- OVERSEE DOCUMENTATION DISTRIBUTION AND USER TRAINING
- MONITOR IMPLEMENTATION PLAN PROGRESS
- RESOLVE CONFLICTS OR DELAYS

acf2

The Access Control Facility

SESSION 2

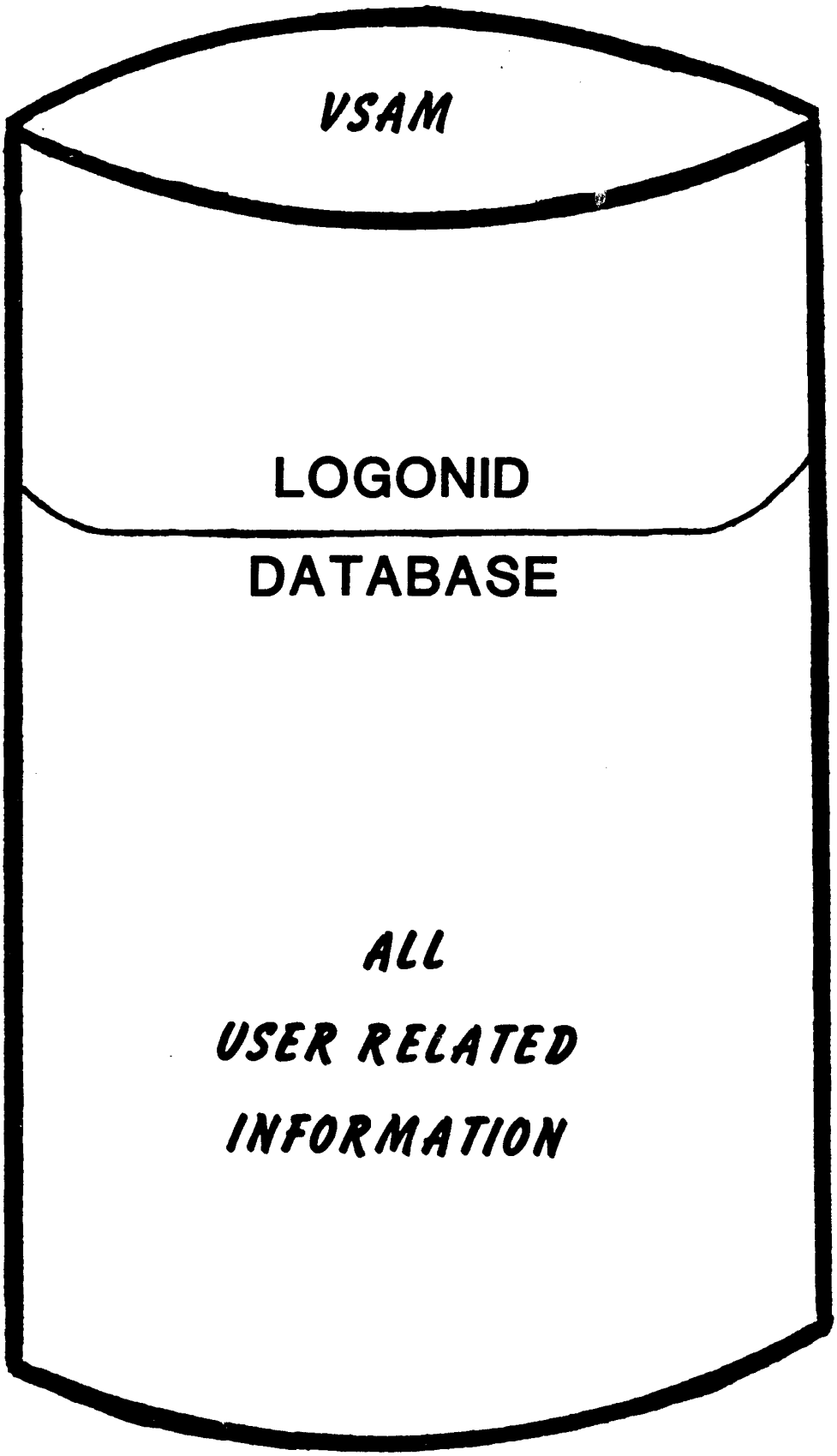
IDENTIFYING SYSTEM USERS

Identify Users of the System

Define User Privileges and Attributes

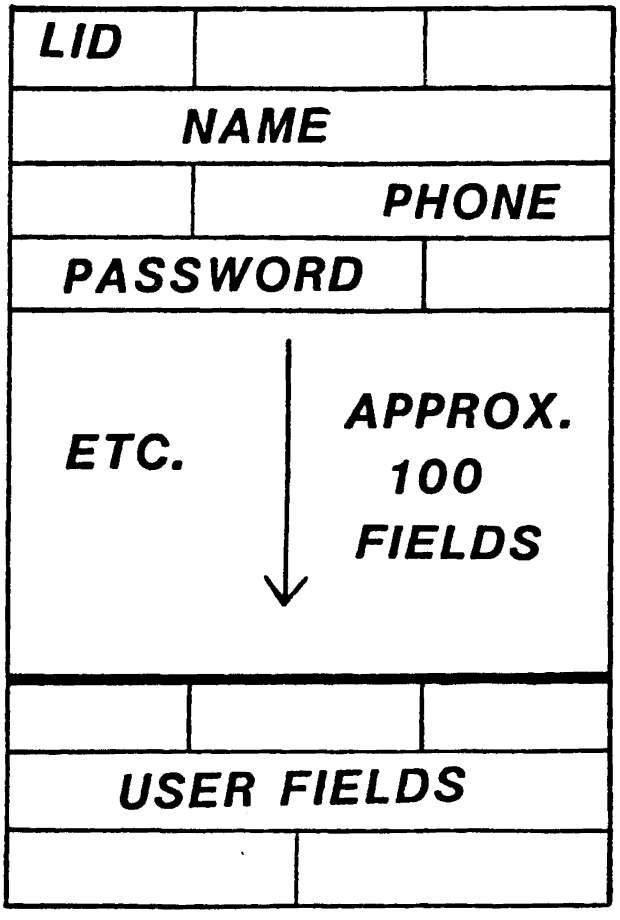
Determine User Responsibilities

/1/82



LOGONID RECORD

- 1,024 byte record
- One record per user.
- LOGONID field key to record
- Allows for single definition of user's attributes



Approximately 100 fields predefined by ACF2

384 bytes of user area available

Revised: 9/7/83

LOGONID FIELDS

- Each Field Described in ACFFDR via @CFDE entry
- Field Length and Location Defined in LIDREC DSECT
- Ability to Display and Alter Fields Based on Requesting Logonid's Authorization
- Logonids Created and Maintained via ACF Subcommands

Revised: 1/23/84

DEFINES DATA OWNERSHIP

LOGONID 'OWNED DATASET' PREFIX

- ONE HIGH LEVEL INDEX OR MASK PER LOGONID
- REQUESTS FOR OWNED DATASETS BYPASS ACF2 RULE VALIDATION

(1) PREFIX(TMMM)

(2) PREFIX(ACT*****)

(3) PREFIX(********)

(4) PREFIX( )

AUDIT CONTROLS

BY UID

.TRACE

.TSO-TRC TRACING TSO COMMANDS

.MONITOR LOGS EACH TIME A PERSON LOGS ON TO SECURITY TERMINAL ONLY

.MON-LOG SEND TO TERMINAL + CREATE LOG

.CANCEL, SUSPEND THIS LOGON ID CANNOT LOG ON TO SYSTEM.

.CSDATE, CSWHO

.MAXDAYS(nnn) CONTROL HOW OFTEN PASSWORD IS TO BE CHANGED

.MINDAYS(nnn) MIN # OF DAYS A CHANGED PASSWORD MUST BE LEFT UNCHANGED

.PSWD-EXP FORCE EXPIRES PASSWORD

.EXPIRE(date) FIXED DATE TO EXPIRE ID

Revised: 10/10/84

POSSIBLE LOGONID AUTHORIZATIONS

. **SECURITY** ABILITY TO WRITE RULES, LOGON ID, INFO RECORDS.
SECURITY ALLOWS ACCESS ANY DATASET, ALL PRIVILEGES.

. **ACCOUNT** THIS PERSON OWN RIGHTS + DELETE LOG ON IDS.

. **AUDIT** READ ALL DATA BASES.

. **LEADER** HAS ABILITY TO MODIFY SOME ACF2 FIELDS. (APPENDIX A-11)

. **CONSULT** HELP DESK - LETS SY'S LOOK AT FIELDS, RULES, ETC.

. **USER**

LIMIT ADMINISTRATIVE AUTHORITY

USED IN CONJUNCTION WITH PRIVILEGE (1-5)

. ***DSNSCOPE*** (dsn-mask)

. ***LIDSCOPE*** (lid-mask)

ONLY LOGONIDS THAT BEGIN W THIS HIGH LEVEL (HDP / HST) ETC

. ***UIDSCOPE*** (uid-mask)

- OR -

. ***SCPLIST*** (scope-list-name)

POINTS TO RECORDS IN ENF STORAGE THAT HAS MULTIPLE

CAN RESTRICT SECURITY OFFICER

GET ANOTHER IF WITH SECURITY PRIVILEGE + NOT IN DISABLE SECURITY USER

Revised: 4/25/84

SPECIAL USER ATTRIBUTES

. SPECIAL AUTHORIZATIONS

- **NON-CNCL** — WITH OWN USER PRIVILEGES, CAN ACCESS ANYTHING ON SYSTEM & WILL NOT BE CANCELED. STILL GOES THRU RULES, BUT CUTS NEEDED.
- **READALL** — SUBSET. PERSON CAN ONLY READ.
- **REFRESH** — CAN CHANGE SYSTEM ON FLY
- **MAINT** — ALTERNATIVE TO NON-CNCL W/ SPECIAL FUNCTION.

. SPECIAL LIMITS

- **NO-STORE** — ALLOW WRITE OF RULES, BUT CAN'T STORE. FOR NEW USERS WRITE + REVIEW
- **RULEVLD** — FORCES ALL JOBS TO GO THRU RULES.

SYSTEM ACCESS CONTROLS

Points to regions in Info Storage Area.

- SOURCE(name) — Terminal ID

Bit fields:

- CICS
- IMS
- STC
- TSO
- JCL — Can use submit command to enter jobs from TSO.
- JOB — Can submit batch jobs to system (thru MVS?)
- IDMS
- OID — Must have operator card (operator [illegible]) Must have OID terminals.
- OID-ALL

Controls if you have privilege to log on to these regions.

Revised: 10/16/84

SYSTEM ACCESS TIME/SHIFT CONTROLS

. ***SHIFT*** **(name)**

. ***ZONE*** **(name)**

. ***LOGSHIFT***

TSO COMMAND LIMITING

. TSOCMDS(command-list-name)

. ALLCMDS - #

. CMD-LONG

REVISED: 9/22/82

SPECIAL PRIVILEGES

. DUMPAUTH

. AUTODUMP

. MUSASS

. NO-SMC

. JOBFROM

TAPE PROCESSING CONSIDERATIONS

TAPE BYPASS LABEL PRIVILEGES

	DSN	VOL
- TAPE-BLP	JCL	JCL
- TAPE-LBL	JCL	TAPE LABEL

DSN
NO CHECKING TO SEE
WHAT'S ON TAPE.

Revised: 4/25/84

STATISTICS

. **PSWD-TOD** - DO NOT USE THIS FIELD AS IT IS USED IN ENCRYPTION FIELD.

24 Hours

. **PSWD-DAT** - DATE OF LAST ~~PASSWORD~~ VIOLATION

. **PSWD-VIO** - ~~#~~ VIOLATIONS.

. **SEC-VIO** - TOTAL # OF 913'S DURING LIFE OF FD.

. **UPD-TOD** - WHEN ID LAST CHANGED

. **ACC-CNT** - # OF ACCESSES.

SHOULD SHOULD MAINTAIN FILE WITH LAST ACCESSED

. **ACC-DATE** - DATE

. **ACC-TIME** - TIME

. **ACC-SRCE** - FROM

Revised: 6/7/83

USER LOGONID VALIDATION

* USER VALIDATION TAKES PLACE DURING:

- TSO LOGON
- IMS SIGNON
- CICS SIGNON
- IDMS SIGNON
- JES2 JCL CONVERSION
- JES2 SP1.3 READER TIME
- JS3 INPUT SERVICES PROCESSING
- STC START UP

Revised: 10/16/84

SYSTEM ACCESS SUPPORT

TSO LOGONID FORMAT:

LOGON *Logonid/password/newpassword*

BATCH LOGONID FORMAT:

//*LOGONID *logonid*
//*PASSWORD *password/newpassword*

SPECIAL BATCH JOB SUBMISSIONS:

//*JOBFROM *logonid/source[/authcode]*

VS1 only

ALSO INTERFACES WITH:

- *CICS Signon*
- *IMS Signon*
- *IDMS Signon*
- *Other Products (ROSCOE, TONE, etc.)*

Revised: 10/17/84

SYSTEM ACCESS CONSIDERATIONS

- All Users MUST Have Logonid Defined on Logonid Database
- First Logonid Card in JCL Used For System Access Validation
- Jobs Submitted via TSO Submit Inherit TSO Logonid*
- Jobs Submitted by Other Jobs Inherit Submittor's Logonid*
- Batch Jobs and STC's Without Logonids Inherit Default Logonids GSO Record

UNLESS OVERRIDDEN IN JCL

TSO FULL SCREEN SUPPORT

- Does not require TSO/E

- Logonid field to request Full Screen

  - ***TSOFSCRN***

10/10/84

FULL SCREEN SIGN-ON PANEL

```
----------------VS2 REL 03.8J TIME SHARING OPTION-----------------------------

     ENTER LOGON PARAMETERS BELOW:
     USERID     ==>   USRTMS                MSGCLASS   ==>
     SOURCE     ==>   LV44E                 UNIT       ==>   SYSDA
     PROCEDURE  ==>   $TMSPROC              TIME       ==>   000
     SIZE       ==>   04096
     ACCT NMBR  ==>   1
     PERFORM    ==>   000
     ENTER AN 'S' BEFORE EACH OPTION DESIRED BELOW:
           -NOMAIL       -NONOTICE       S   -RECOVER       -RECONNECT
     USER KEYS ==>
```


10/10/84

SUMMARY

LOGONID RECORD

(LID)

. ONE 1024 BYTE RECORD PER USER

. DEFINES USER

- PRIVILEGES
- ATTRIBUTES
- RESPONSIBILITIES

. ALL LID FIELDS ARE DESCRIBED BY @CFDE ENTRIES IN ACFFDR

. LID RECORDS ARE DYNAMICALLY UPDATED

Revised: 10/17/84

acf2

The Access Control Facility

USER IDENTIFICATION STRING

2/10/83

If You Equate a Logonid

To a User's Name,

What Then is a

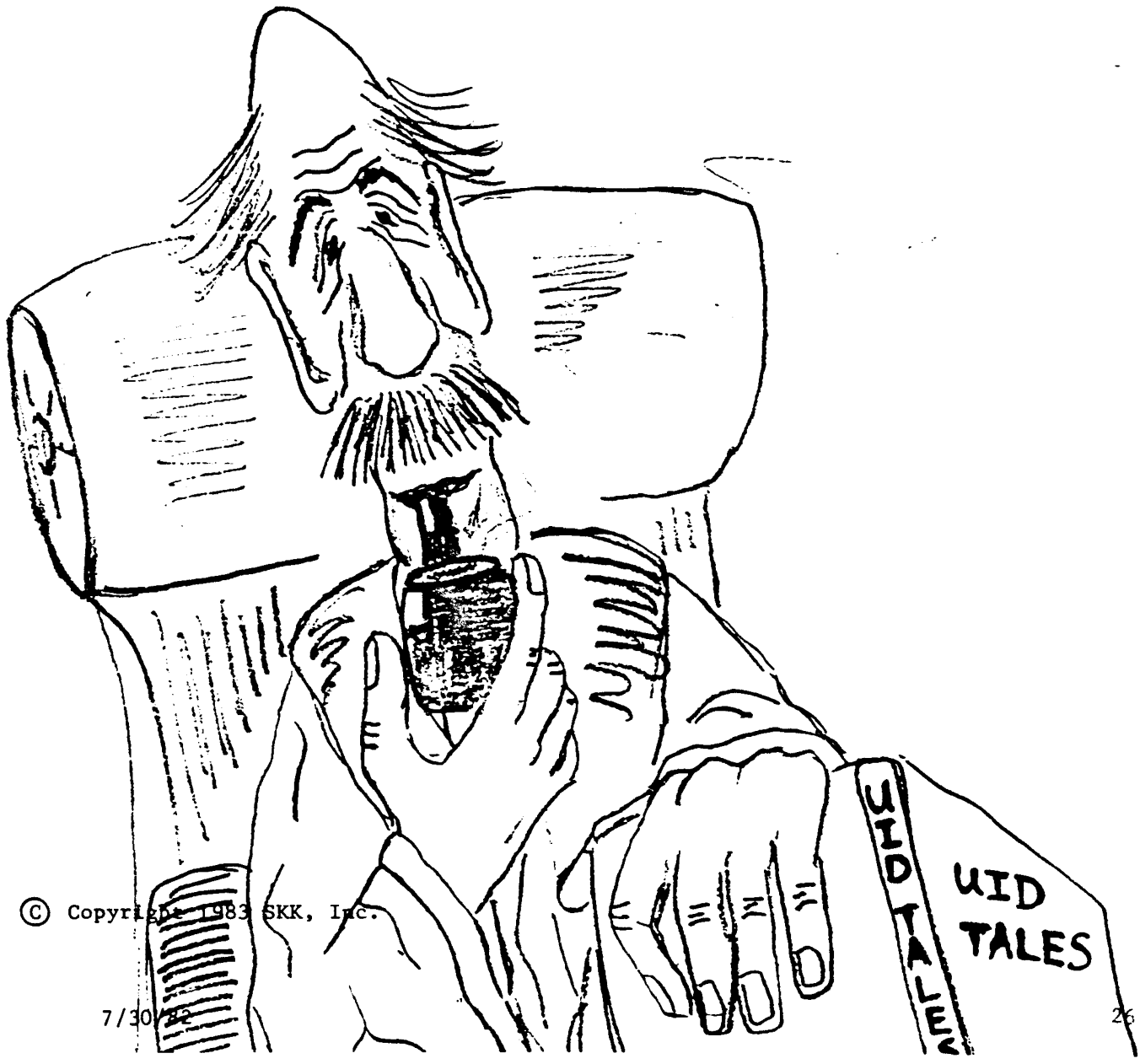
User Identification String

(UID)

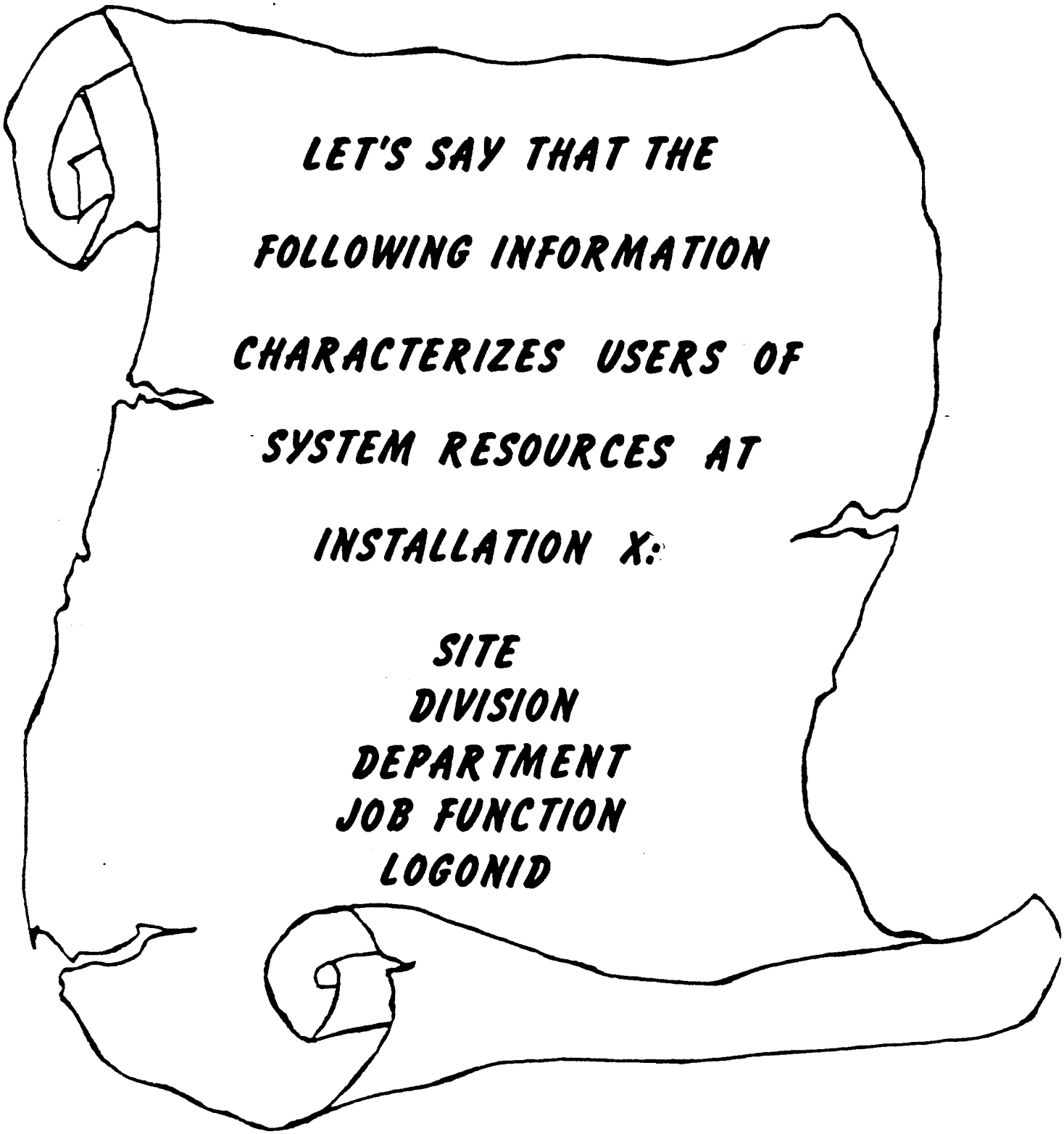
?

A UID String Defines a User Within an Installation's User Community and Allows for Easy Grouping of Users!

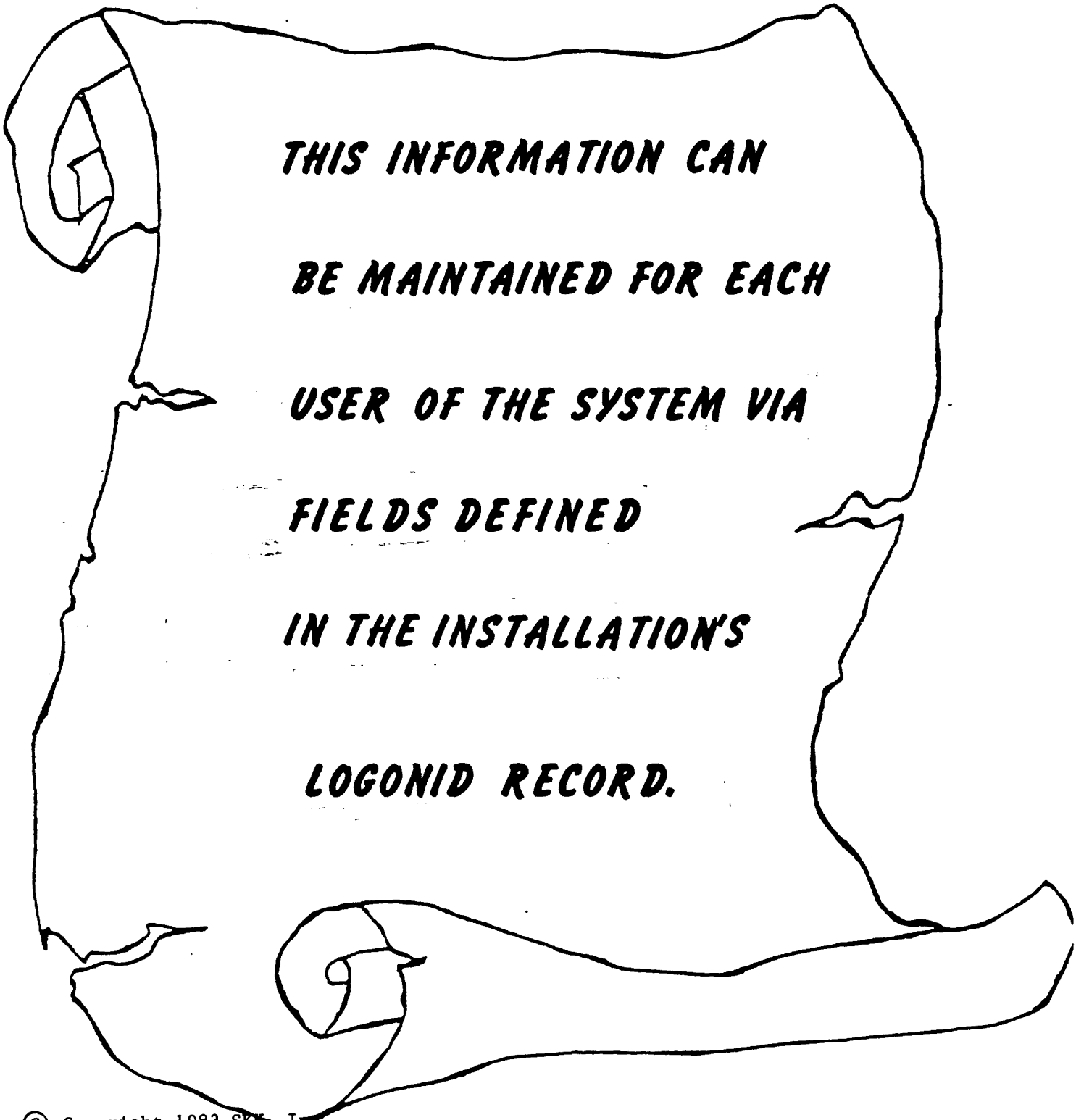
THE UID STORY



THE UID STORY

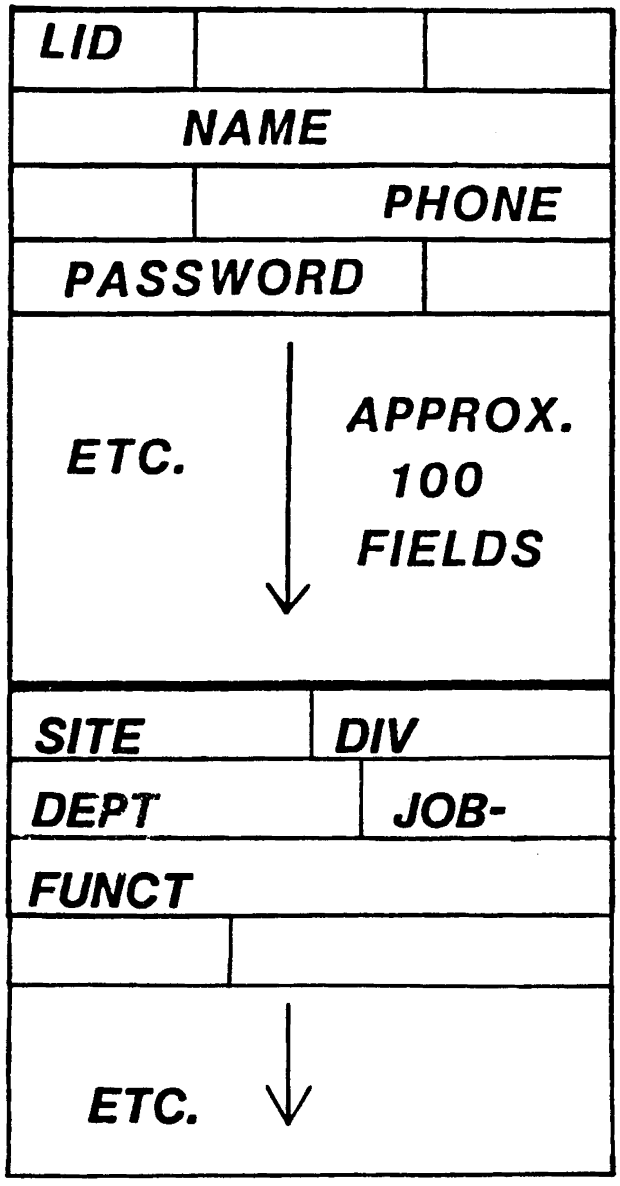


THE UID STORY



Revised: 5/2/83

LIDREC



SKK DEFINES STANDARD FIELDS IN ACFLID

INSTALLATION DEFINES LOCAL FIELDS IN USERLID

FOR EXAMPLE:

Site (SITE) - 1 Character
Division (DIV) - 1 Character
Department (DEPT) - 2 Characters
Job Function (JOBFUNCT) - 3 Characters

DEFINING UID FIELDS

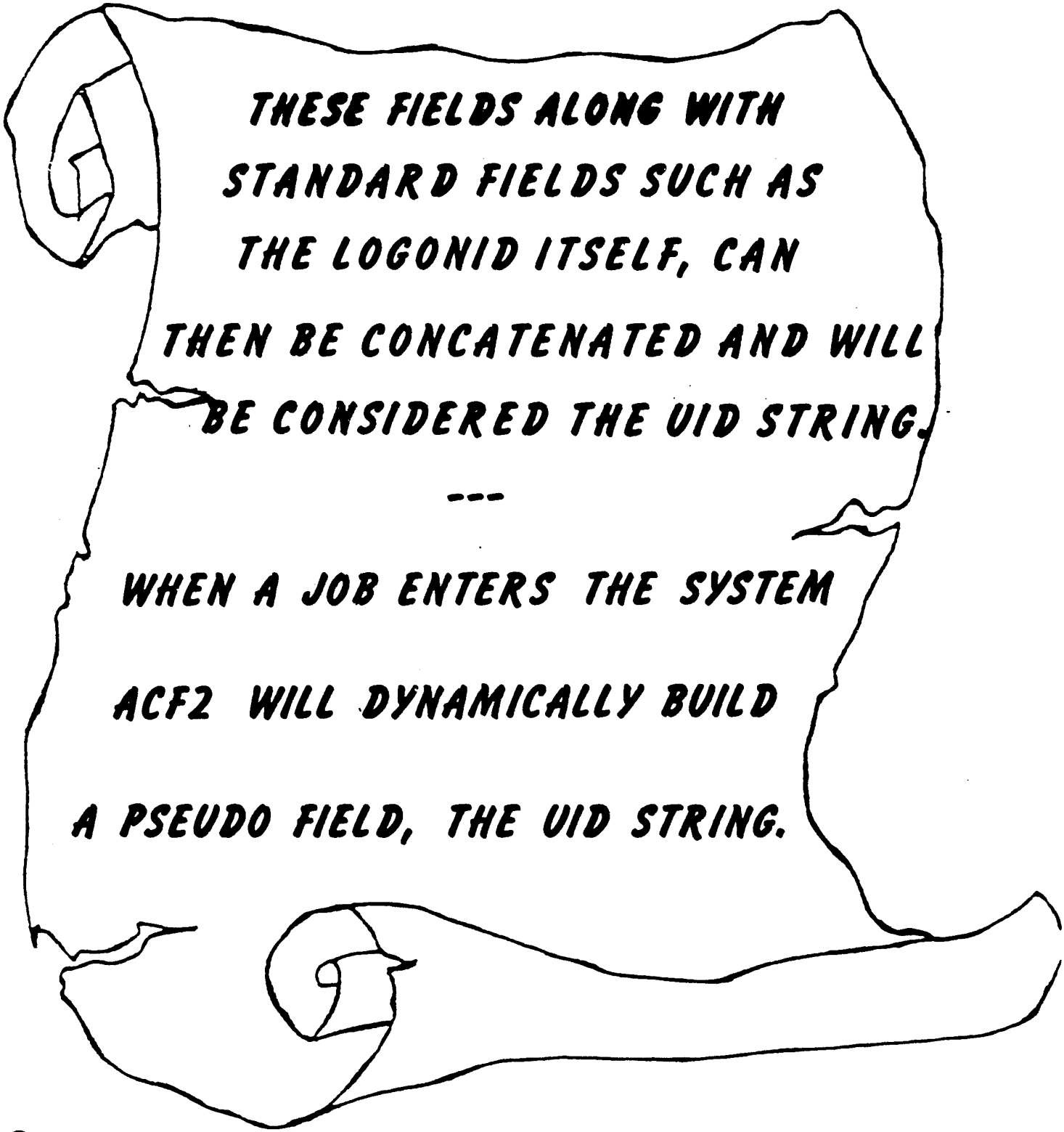
DESCRIBE FIELDS IN ACFFDR:

```
@CFDE  SITE,LIDSITE,CHAR,ALTER=SECURITY+ACCOUNT,LIST=ALL,
         PRTN=1,RRTN=1,GROUP=4

@CFDE  DIV,LIDDIV,CHAR,ALTER=SECURITY+ACCOUNT,LIST=ALL,
         PRTN=1,RRTN=1,GROUP=4

@CFDE  DEPT,LIDDEPT,CHAR,ALTER=SECURITY+ACCOUNT,LIST=ALL,
         PRTN=1,RRTN=1,GROUP=4

@CFDE  JOBFUNCT,LIDFUNCT,CHAR,ALTER=SECURITY+ACCOUNT,LIST=ALL,
         PRTN=1,RRTN=1,GROUP=4
```

DEFINE FIELDS IN LIDREC:

```
LIDREC   DSECT
         .
         .
         .
         COPY USERLID
LIDSITE  DS   CL1      *** SITE CODE
LIDDIV   DS   CL1      *** DIVISION CODE
LIDDEPT  DS   CL2      *** DEPT. ID.
LIDFUNCT DS   CL3      *** JOB FUNCTION
```

THE UID STORY

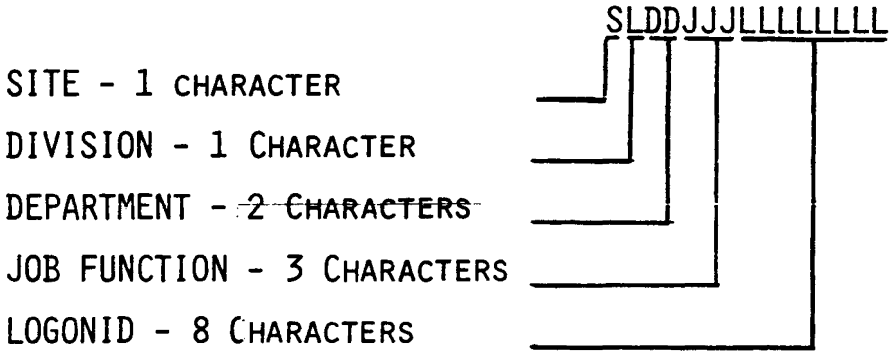


DEFINING UID STRING

DEFINE UID STRING IN ACFFDR:

@UID SITE,DIV,DEPT,JOBFUNCT,LID

SAMPLE UID FORMAT:



CREATE USER LOGONID:

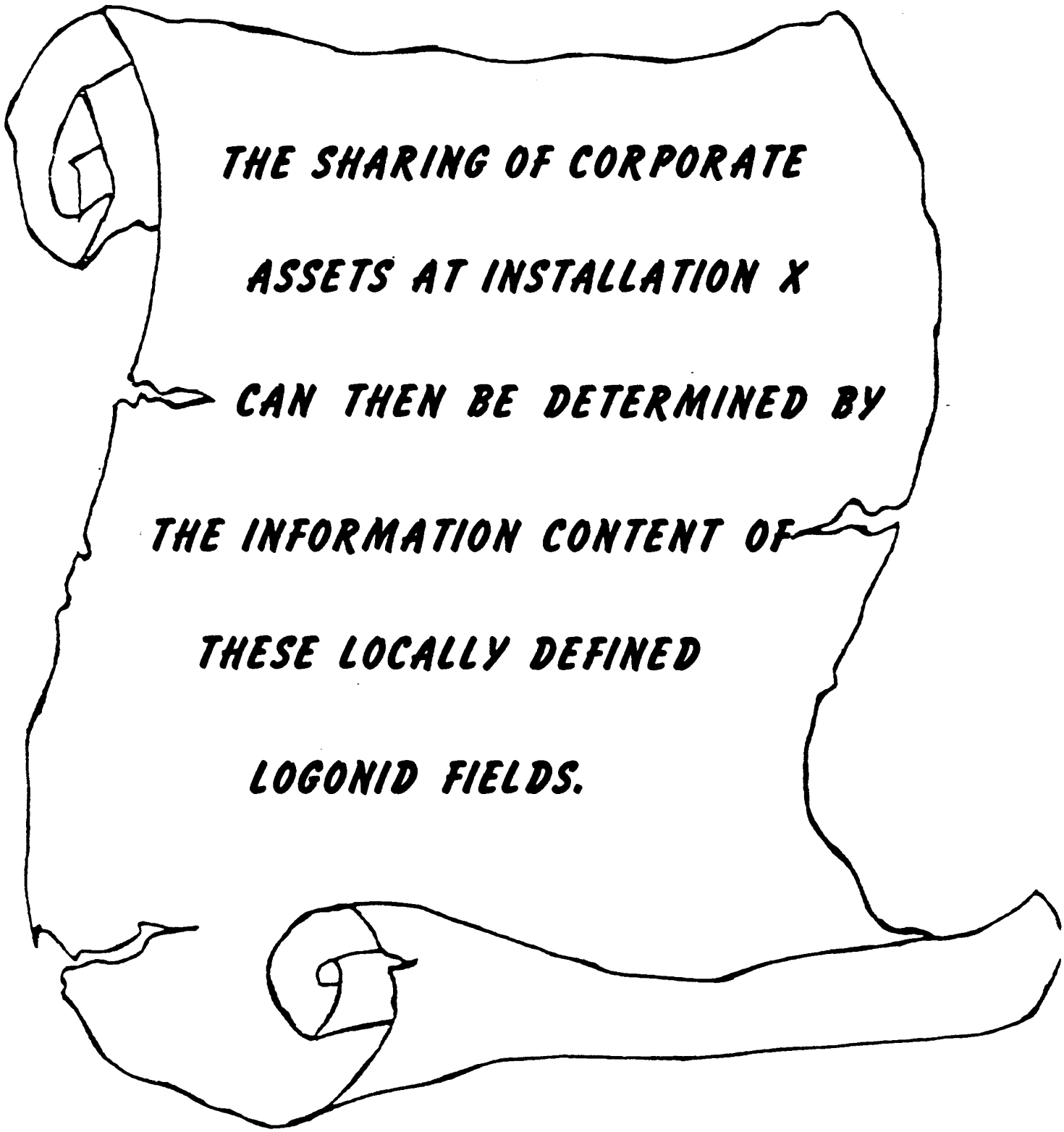
INSERT USER#1 NAME(USER #1) SITE(C) DIV(D)
DEPT(OP) JOBFUNCT(OPR) JOB JCL TSO

UID DYNAMICALLY BUILT:

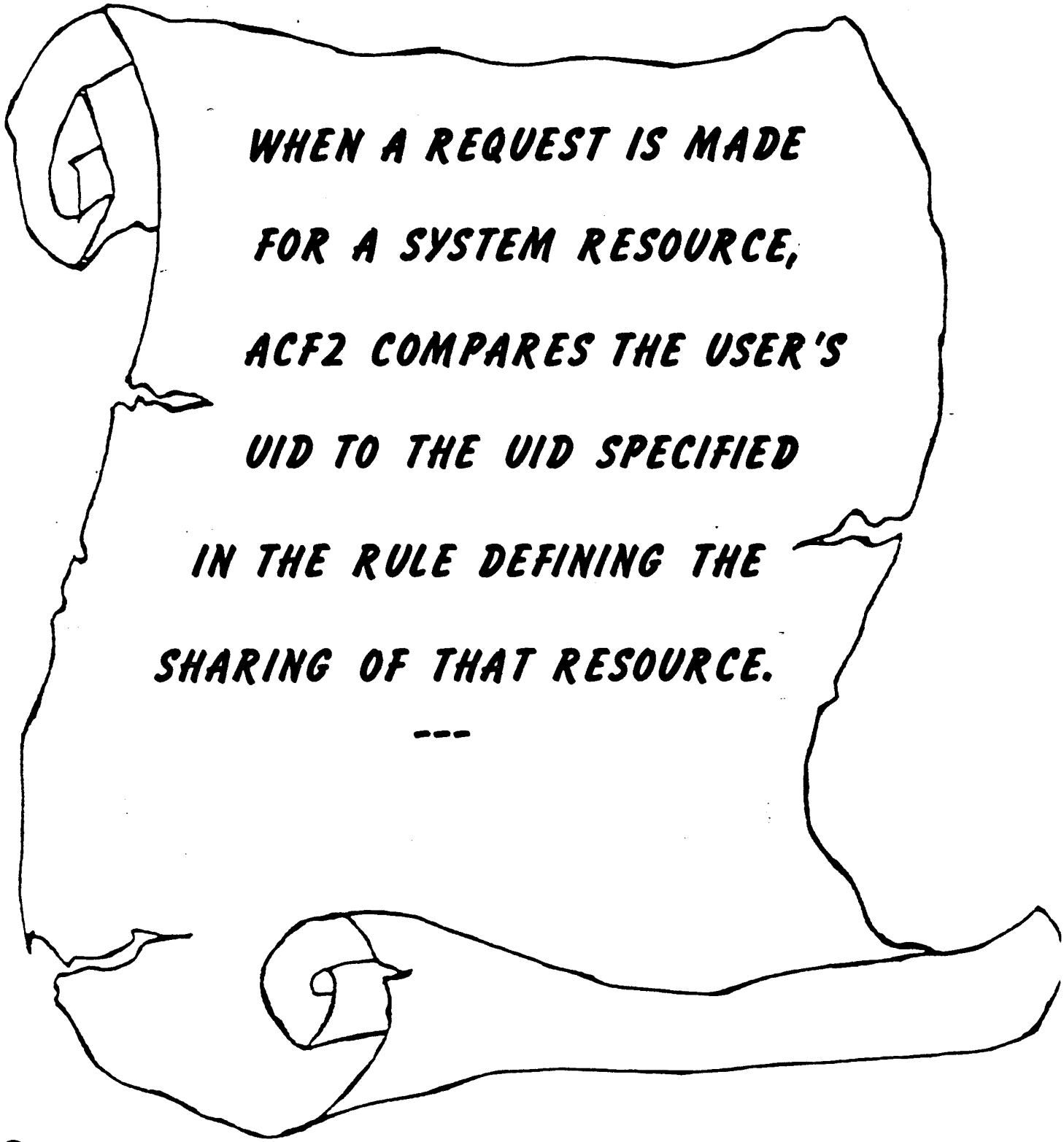
UID(CDOPOPRUSER#1)

The UID String can be 1 - 24 characters

THE UID STORY

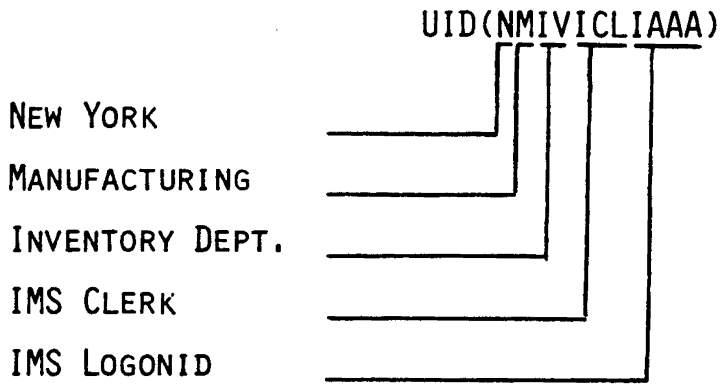


THE UID STORY



UID Examples

INDIVIDUAL UID STRING



RULE SET

UID STRING FOR ALL IMS CLERKS IN THE ABOVE ENVIRONMENT.

UID(NMIVICL)

RULE SET

UID STRING FOR ALL USERS IN THE MANUFACTURING DIVISION.

UID(NM)

UID STRING DESIGN CONSIDERATIONS

- ORGANIZATION STRUCTURES
- NAMING CONVENTIONS
- ACCESS CONTROLS
- POLICIES TO BE ENFORCED
- ADMINISTRATION OF USERS AND RULES

REVISED: 9/22/82

SUMMARY

USER IDENTIFICATION STRING (UID)

- CONSTRUCTED DYNAMICALLY AT JOB INITIATION
- HIGH INFORMATION CONTENT
- ALLOWS LOGONID TO REMAIN UNIQUE IDENTIFIER
- USED IN RULE INTERPRETATION
- 1-24 CHARACTERS (FIXED LENGTH WITHIN EACH INSTALLATION) PSEUDO FIELD

"SHOW FIELDS" OUTPUT

(USER)

```
acf
?
list *
 TLC001                TCHOSTLC001 VIOLET EXT. 121
 PRIVILEGES            CICS JOB TSO
 ACCESS                ACC-CNT(2) ACC-DATE(10/15/84) ACC-SRCE(LV433)
                       ACC-TIME(08:36)
 MISCELLANEOUS         CICSCL(404040) COMPANY(T) IDNUM() LEVEL(H) MAXDAYS(60)
                       PREFIX(TLC001) PROJECT(OS) SITE(C)
 TSO                   DFT-PFX(TLC001) TSOPROC($MYPROC)
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(10/15/84-08:14) PSWD-VIO(0)
                       UPD-TOD(10/15/84-08:36)
?


show fields

 -- IDENTIFICATION --
  LID          NAME         *PASSWORD    PHONE        UID
 -- CANCEL/SUSPEND --
  CANCEL       PSWD-EXP     SUSPEND
 -- PRIVILEGES --
  AUTODUMP     CICS         DUMPAUTH     EXPIRE       IDMS         IMS          JOB
  JOBFROM      LOGSHIFT     MAINT        MUSASS       NO-SMC       NO-STORE     NON-CNCL
  PGM          PROGRAM      READALL      RESTRICT     RULEVLD      STC          SUBAUTH
  TAPE-BLP     TAPE-LBL     TSO
 -- ACCESS --
  ACC-CNT      ACC-DATE     ACC-SRCE     ACC-TIME
 -- MISCELLANEOUS --
  CICSCL       CICSID       CICSKEY      CICSKEYX     CICSPRI      CICSRSL      COMPANY
  IDLE         IDNUM        LEVEL        MAXDAYS      MINDAYS      MUSOPT       MUSPGM
  PREFIX       PROJECT      SHIFT        SITE         SOURCE       ZONE
 -- TSO --
  ACCTPRIV     ALLCMDS      ATTR2       *CHAR         CMD-LONG     DFT-DEST    *DFT-PFX
 *DFT-SOUT    *DFT-SUBC    *DFT-SUBH    *DFT-SUBM    *INTERCOM     JCL          LGN-ACCT
  LGN-INDX     LGN-MSG      LGN-PERF     LGN-PROC     LGN-RCVR     LGN-SIZE     LGN-TIME
  LGN-UNIT    *LINE        *MAIL        *MODE         MOUNT       *MSGID       *NOTICES
  OID          OID-ALL      OPERATOR    *PAUSE        PMT-ACCT     PMT-PROC    *PROMPT
 *RECOVER      TSOACCT      TSOCMDS      TSOFSCRN     TSOPERF      TSOPROC      TSORGN
  TSOSIZE      TSOTIME      TSOUNIT      UADSINDX     VLD-ACCT     VLD-PROC    *WTP
 -- STATISTICS --
  PSWD-DAT     PSWD-TOD     PSWD-VIO     UPD-TOD
?
end
READY
```

"SHOW FIELDS" OUTPUT
(SECURITY OFFICER)

```
acf
?
list *
 TLCISO              TCFISTLCISO TLC SECURITY OFFICER EXT. 345
 PRIVILEGES          CICS JOB SECURITY
 ACCESS              ACC-CNT(1) ACC-DATE(10/15/84) ACC-SRCE(LV433)
                     ACC-TIME(08:27)
 MISCELLANEOUS       CICSCL(404040) COMPANY(T) IDNUM() LEVEL(F) MAXDAYS(60)
                     PREFIX(TLCISO) PROJECT(IS) SITE(C)
 TSO                 DFT-PFX(TLCISO) TSOPROC($MYPROC) TSORBA()
 STATISTICS          PSWD-DAT(00/00/00) PSWD-TOD(10/15/84-08:27) PSWD-VIO(0)
                     SEC-VIO(0) UPD-TOD(10/15/84-08:27)


?
show fields

 -- IDENTIFICATION --
  LID        *NAME       *PASSWORD  *PHONE       UID
 -- CANCEL/SUSPEND --
 *CANCEL      CSDATE      CSWHO      *MON-LOG    *MONITOR    *PSWD-EXP   *SUSPEND
 *TRACE      *TSO-TRC
 -- PRIVILEGES --
 *ACCOUNT    *AUDIT      *AUTODUMP  *CICS       *CONSULT    *DSNSCOPE   *DUMPAUTH
 *EXPIRE     *IDMS       *IMS       *JOB        *JOBFROM    *LEADER     *LIDSCOPE
 *LOGSHIFT   *MAINT      *MUSASS    *NO-SMC     *NO-STORE   *NON-CNCL   *PGM
 *PROGRAM    *READALL    *REFRESH   *RESTRICT   *RULEVLD    *SCPLIST    *SECURITY
 *STC        *SUBAUTH    *TAPE-BLP  *TAPE-LBL   *TSO        *UIDSCOPE   *USER
 -- ACCESS --
  ACC-CNT     ACC-DATE    ACC-SRCE    ACC-TIME
 -- MISCELLANEOUS --
 *CICSCL     *CICSID     *CICSKEY   *CICSKEYX   *CICSPRI    *CICSRSL     COMPANY
 *IDLE        IDNUM       LEVEL     *MAXDAYS    *MINDAYS    *MUSOPT     *MUSPGM
 *PREFIX      PROJECT    *SHIFT      SITE       *SOURCE     *ZONE
 -- TSO --
 *ACCTPRIV   *ALLCMDS    *ATTR2     *CHAR       *CMD-LONG   *DFT-DEST    *DFT-PFX
 *DFT-SOUT   *DFT-SUBC   *DFT-SUBH  *DFT-SUBM   *INTERCOM   *JCL         *LGN-ACCT
 *LGN-INDX   *LGN-MSG    *LGN-PERF  *LGN-PROC   *LGN-RCVR   *LGN-SIZE    *LGN-TIME
 *LGN-UNIT   *LINE       *MAIL      *MODE       *MOUNT      *MSGID      *NOTICES
 *OID        *OID-ALL    *OPERATOR  *PAUSE      *PMT-ACCT   *PMT-PROC    *PROMPT
 *RECOVER    *TSOACCT    *TSOCMDS   *TSOFSCRN   *TSOPERF    *TSOPROC    *TSORBA
 *TSORGN     *TSOSIZE    *TSOTIME   *TSOUNIT    *UADSINDX   *VLD-ACCT   *VLD-PROC
 *WTP
 -- STATISTICS --
 *PSWD-DAT    PSWD-TOD   *PSWD-VIO  *SEC-VIO     UPD-TOD
?
end
READY
```


Revised: 10/22/84

ACF2 SUBCOMMANDS UNDER LID MODE

SET LID

- INSERT [USING(PROTOTYPE-LOGONID)] [*/LOGONID] FIELD1 FIELD2... FIELDN
- CHANGE [*/LOGONID/LIKE(LOGONID-MASK)/UID(UID-MASK)] FIELD1... FIELDN
- DELETE [*/LOGONID/LIKE(LOGONID-MASK)/UID(UID-MASK)] NORULE
- LIST [*/LOGONID/LIKE(LOGONID-MASK)/UID(UID-MASK)/IF(BIT-FIELD)]
- SYNCH [LIKE(LOGONID-MASK)/UID(UID-MASK)/IF(BIT-FIELD)]

Revised: 10/17/84

INSERT EXAMPLES

```
INSERT      TJJJ NAME(JOHN) SITE(C) -
            DIV(D) DEPT(SD) JOBFUNCT(PAP) TSOACCT(SD1234) -
            INTERCOM JCL LGN-ACCT LGN-PROC TSOPROC(LOGONA) -
            MAIL NOTICES TSO VLD-ACCT VLD-PROC -
            WTP SOURCE(PRGMRS) PHONE(555-3212)

INSERT      USING(TJJJ) TBBB NAME(BOB) PHONE(555-3231) -
            LGN-RCVR LGN-SIZE LGN-TIME LGN-UNIT
```

CHANGE EXAMPLES

```
CHANGE TBBB PHONE(555-3232) NOVLD-PROC

CHANGE LIKE(T***) SITE(B) DIV(C) DEPT(DC)

CHANGE UID(CDOP****) IMS NOCICS MAXDAYS(10)
```

LIST IF EXAMPLE

```
acf
set terse
list if(ims)
 IMSID                SHM99IMSID    IMS CONTROL LOGONID
 SSDJHS               SHSC9SSDJHS   JACK SMITH EXT. 308
 SSDTAT               SHSC9SSDTAT   TIM TRANTER EXT. 224
 SSDTEC               SHS99SSDTEC   TOM CARS EXT. 309
 TSTIMS               SHS99TSTIMS   IMS TEST LOGONID
```

LIST LIKE EXAMPLE

```
list like(tlc-)
 TLC001               TCHOSTLC001 VIOLET EXT. 121
 TLC002               TCFQATLC002 STEVE EXT. 122
 TLC003               TCFISTLC003 PEARL EXT. 123
 TLC004               TCFQATLC004 OSCAR EXT. 124
 TLC005               TCFSPTLC005 MARY EXT. 125
 TLC006               TCHBATLC006 KATHY EXT. 221
 TLC007               TCHACTLC007 JOHN EXT. 222
 TLC008               TCHPJTLC008 PAYROLL JCL EXT. 223
 TLC009               TCASATLC009 STAFF AUDITORS EXT. 321
 TLC010               TCHPMTLC010 SAM EXT. 380
 TLC011               TCFPATLC011 SUE EXT. 107
```


Revised: 10/16/84

ACF2
IMS - CICS
INTERFACES

LOGONID RECORD MAINTENANCE

- IMS USES STANDARD "ACF" COMMAND
- CICS PROVIDES FULL SCREEN SUPPORT

Revised: 10/18/84

ACF2 BATCH UTILITIES AND REPORTS FOR LOGONID RECORDS

2/10/83

ACF2 SYNCH BATCH PROCESSING UTILITY

ACFBSYNC

* WHAT IS IT USED FOR?

  . SYNCHRONIZE SYS1.BRODCAST DATASET WITH
    ACF2 LOGONID DATABASE.

* INPUT SOURCES

  . ACF2 LOGONID DATABASE

  . USE OF PARM=
    - ADD ONLY THOSE LOGONIDS WITH A PARTICULAR ATTRIBUTE

  . SAVEREC OUTPUT FILE FROM ACFRPTSL UTILITY

  . SYSUT1 LIST VIA DD* OR DATASET

ACFRPTPW

INVALID PASSWORD/AUTHORITY LOG

. IDENTIFIES ANY TIME A PERSON ATTEMPTS TO ACCESS THE SYSTEM AND THAT ACCESS WAS DENIED BY ACF2.

. ALSO IDENTIFIES IF A USER HAS LOGSHIFT PRIVILEGE AND ACCESSES THE SYSTEM OUTSIDE OF SHIFT/TIME CONTROLS.

. PROVIDES A REASON CODE TO INDICATE WHY THE ATTEMPT WAS DENIED OR LOGGED (ACFØ1NNN).

. SECURITY OFFICERS SHOULD MONITOR THIS REPORT FOR:

- EXCESSIVE INVALID PASSWORD VIOLATIONS
- INVALID PATH SUBMISSION OF RESTRICTED LOGONIDS
- OTHER SUSPICIOUS ACTIVITIES

Revised: 1/23/84

ACFRPTPW - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTPW - INVALID PASSWORD/AUTHORITY LOG - PAGE   1
DATE 10/10/84 (84.284) TIME 08.05

    DATE      TIME  LID      JNAME      SUBMIT'R SOURCE    PROGRAM   RC  L  CPU  LAB

84.282 10/08 09.52 ADMMAN   ADMMAN     P-LOGON  LV45D                4     SKK1
84.283 10/09 10.56 AUDDGT   AUDDGT     P-LOGON  LV475                4     SKK1
84.283 10/09 13.04 AUDMLK   AUDMLK     P-LOGON  LV466               12     SKK1
84.283 10/09 13.04 AUDMLK   AUDMLK     P-LOGON  LV466               12     SKK1
84.283 10/09 13.05 AUDMLK   AUDMLK     P-LOGON  LV466               12     SKK1
84.283 10/09 13.05 AUDMLK   AUDMLK     P-LOGON  LV466               13     SKK1
84.282 10/08 15.10 MSGLDH   MSGLDH     P-LOGON  LV457               12     SKK1
84.282 10/08 15.10 MSGLDH   MSGLDH     P-LOGON  LV457               12     SKK1
84.283 10/09 14.10 NPDLLV   NPDLLV     P-LOGON  SRCTEST             12     SKK1
84.283 10/09 16.14 SDDBAD   SDDBAD     P-LOGON  LV463                4     SKK1
84.282 10/08 15.13 SDTH     SDTH       P-LOGON  LV474                4     SKK1
84.282 10/08 10.48 SSDBADO  SSDBADO    P-LOGON  LV463               17     SKK1
84.283 10/09 12.17 SSDRJC   SSDRJC     P-LOGON  LV420               12     SKK1
84.282 10/08 10.03 SSDTEC   SSDTEC     P-LOGON  LV471               12     SKK1
84.282 10/08 10.03 SSDTEC   SSDTEC     P-LOGON  LV471               12     SKK1
84.282 10/08 13.57 SSDTH1   SSDTH1     P-LOGON  LV474               12     SKK1
84.283 10/09 16.08 TSSBA    TSSBA      P-LOGON  LV42F                4     SKK1
84.282 10/08 10.20 TSSFKH   TSSFKH     P-LOGON  LV452               12     SKK1
84.283 10/09 09.14 TSSFLS   TSSFLS     P-LOGON  LV423               12     SKK1
84.283 10/09 11.10 TSSJHB   TSSJHB     P-LOGON  LV42B               12     SKK1
84.283 10/09 11.11 TSSJHB   TSSJHB     P-LOGON  LV42B               12     SKK1
84.283 10/09 11.11 TSSJHB   TSSJHB     P-LOGON  LV42B               17     SKK1
84.282 10/08 09.21 TSSPDC   TSSPDC     P-LOGON  LV424               13     SKK1
84.283 10/09 17.34 USRISO   USRISO     P-LOGON  LV447               12     SKK1
```

NOTES:

P - INDICATES JOB SUBMITTED FROM STARTED TASK (FOLLOWED BY STC PROCEDURE NAME).

* BY PROGRAM NAME INDICATES PROGRAM APF AUTHORIZED

RC INDICATES REASON CODE, E.G.

4 LOGONID NOT FOUND

12 PASSWORD NOT MATCHED

13 LOGONID SUSPENDED FOR PASSWORD VIOLATIONS

17 PASSWORD HAS EXPIRED

ACFRPTLL

LOGONID MODIFICATION LOG

- USES ACF2 SMF RECORDS ISSUED FOR RECOVERY PURPOSES TO PROVIDE AN UPDATE ACTIVITY REPORT FOR ACF2'S LOGONID DATABASE.

- UPDATES OCCUR FOR TWO REASONS:
  - MAINTENANCE OF LOGONID DATABASE (NOUPDATE)
  - JESX AND LOGON VALIDATION (UPDATE)

ACFRPTLL - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTLL - LOGONID MODIFICATION LOG - PAGE   1
DATE 10/10/84 (84.284) TIME 08.05 MASK(USR-),DETAIL

     DATE     TIME  LOGONID  JOBNAME  CHANGER  CHANGE    CPU  LAB  USING
    FIELD        OLD VALUE                NEW VALUE

84.282 10/08 09.51 USRTMS   USRISO   USRISO   CHANGE    SKK1
    SECURITY      NOSECURITY              SECURITY

84.282 10/08 09.51 USRTMS   USRISO   USRISO   CHANGE    SKK1
    JCL           JCL                     JCL

84.282 10/08 09.52 USRTMS   USRTMS   USRTMS   CHANGE    SKK1
    PASSWORD      ---NON PRINTABLE---      ---NON PRINTABLE---

84.282 10/08 13.00 USRTMS   USRTMS   USRTMS   CHANGE    SKK1
    MODE          NOMODE                  MODE

84.283 10/09 10.29 USRTMS   HERBTST  HERBTST  CHANGE    SKK1
    TSO-TRC       NOTSO-TRC               TSO-TRC
    SECURITY      SECURITY                NOSECURITY

84.283 10/09 10.29 USRHAZ   HERBTST  HERBTST  CHANGE    SKK1
    TSO-TRC       NOTSO-TRC               TSO-TRC
```


Revised: 10/17/84

ACFRPTSL

LOGONID SUPERLIST REPORT

. PROVIDES A LISTING OF ALL LOGONID RECORDS WHICH MATCH SELECTION CRITERIA SPECIFIED IN JCL PARAMETERS.

. ABILITY TO COPY OR SELECT AND PRINT LOGONID RECORDS IN LONG OR SHORT FORMATS.

. ALLOWS FOR FLEXIBLE REPORTING BASED ON THE 'IF' PARAMETER.

. ALLOWS FOR FLEXIBLE FIELD PRINTING AND EDITING.

ACFRPTSL - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTSL - LOGONID SUPERLIST REPORT - PAGE  1
DATE 10/10/84 (84.284) TIME 14.43 SL SAMPLE
    LOGONID  NAME                   DATE    TIME    CHANGER  SECURITY ACCOUNT

********************************************************************************
ACF64001 USER REQUESTING REPORT - HERBTST - HERB TESTING ID
OUTPUT LIMITED TO ACF2 RECORDS WITHIN YOUR AUTHORITY AND SCOPE.
AUTHORITY: AUDIT USER
SCOPE: UID(-)  DSN(-)  LID(-)
********************************************************************************

    ACFISO   TEST LOGONID          09/28/84-13:33          YES      YES
    ACFSEC   TEST SECURITY         09/28/84-13:33          YES      NO
    DOCISO   TECH WRITING TEST     10/02/84-14:53          YES      YES
    HERBTST  HERB TESTING ID       10/09/84-10:27          YES      YES
    NPDISO   LARRY K. - ISO TEST   10/08/84-18:19          YES      YES
    SECOFF   ** SEC. OFFICER **    09/28/84-13:33          YES      YES
    SSDISO   SSDISO                10/02/84-13:44          YES      YES
    TLC003   PEARL                  09/28/84-13:33          YES      YES
    TLC006   KATHY                  09/28/84-13:33          NO       YES
    TSSISO   TSS SEC ID             10/10/84-11:41          YES      YES
    USRISO   USR TEST ID            10/08/84-09:49          YES      YES
```


Revised: 10/10/84

ACFRPTCR

TSO COMMAND STATISTICS

. THIS REPORT WILL ONLY BE GENERATED IF

CMDREC IS CODED IN THE OPTS GSO RECORD

- OR -

TSO-TRC IS SET IN A USER'S LOGONID RECORD

. SHOWS THE VARIOUS RESOURCES USED IN A SINGLE TSO SESSION

. REPORTS THE VARIOUS PRIMARY TSO COMMANDS

NOTE: ALL SUBCOMMANDS WILL BE INCLUDED AS PART OF THE PRIMARY COMMAND STATISTICS

. OPTIONALLY YOU CAN ELECT TO DISPLAY THE CONTENT OF THE COMMAND BUFFER.

Revised: 10/17/84

ACFRPTCR

WITH BUFFER - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTCR - TSO COMMAND STATISTICS   -   PAGE    1
DATE 10/10/84 (84.284) TIME 08.06 USRHAZ   TSO TRACE RECORDS

84.283 10/09 15.55 JOB=USRTMS    UID=SHS99USRTMS  0405         SYSTEM ID= SKK1

  SEQUENCE  COMMAND   TIME OF   CALLING
   NUMBER    NAME       DAY     PROGRAM
       00 C $$START    14.50    IKJEFT02
          %$$START
       01 * FREE       14.51    IKJEFT02
          FREE ATTR(F)
       02 * FREE       14.51    IKJEFT02
          FREE F(ISPPROF)
       03 * ATTRIB     14.51    IKJEFT02
          ATTRIB F  RECFM(F B) LRECL(80) BLKSIZE(3120) DSORG(PO)
       04 * LOCATE     14.51    IKJEFT02
          LOCATE 'USRTMS.ISPF.PROFILE'
       05 * ALLOC      14.51    IKJEFT02
          ALLOC F(ISPPROF) DS('USRTMS.ISPF.PROFILE') SHR
       06 * FREE       14.51    IKJEFT02
          FREE ATTR(F)
       07 * EX         14.51    IKJEFT02
          EX STARTUP
       08 * END        14.51    IKJEFT02
          END
       09   SPF        14.52    IKJEFT02
          SPF 1

NOTE: 'C' INDICATES CLIST OR INVALID COMMAND, * INDICATES COMMAND WITHIN CLIST
```


Revised: 10/10/84

acf2

The Access Control Facility

SESSION 3

WRITING ACCESS RULES

10/10/84

ACCESS RULES

WHAT ARE ACCESS RULES?

- SET OF RULES ALLOWING FOR THE CONTROLLED SHARING OF RESOURCES.

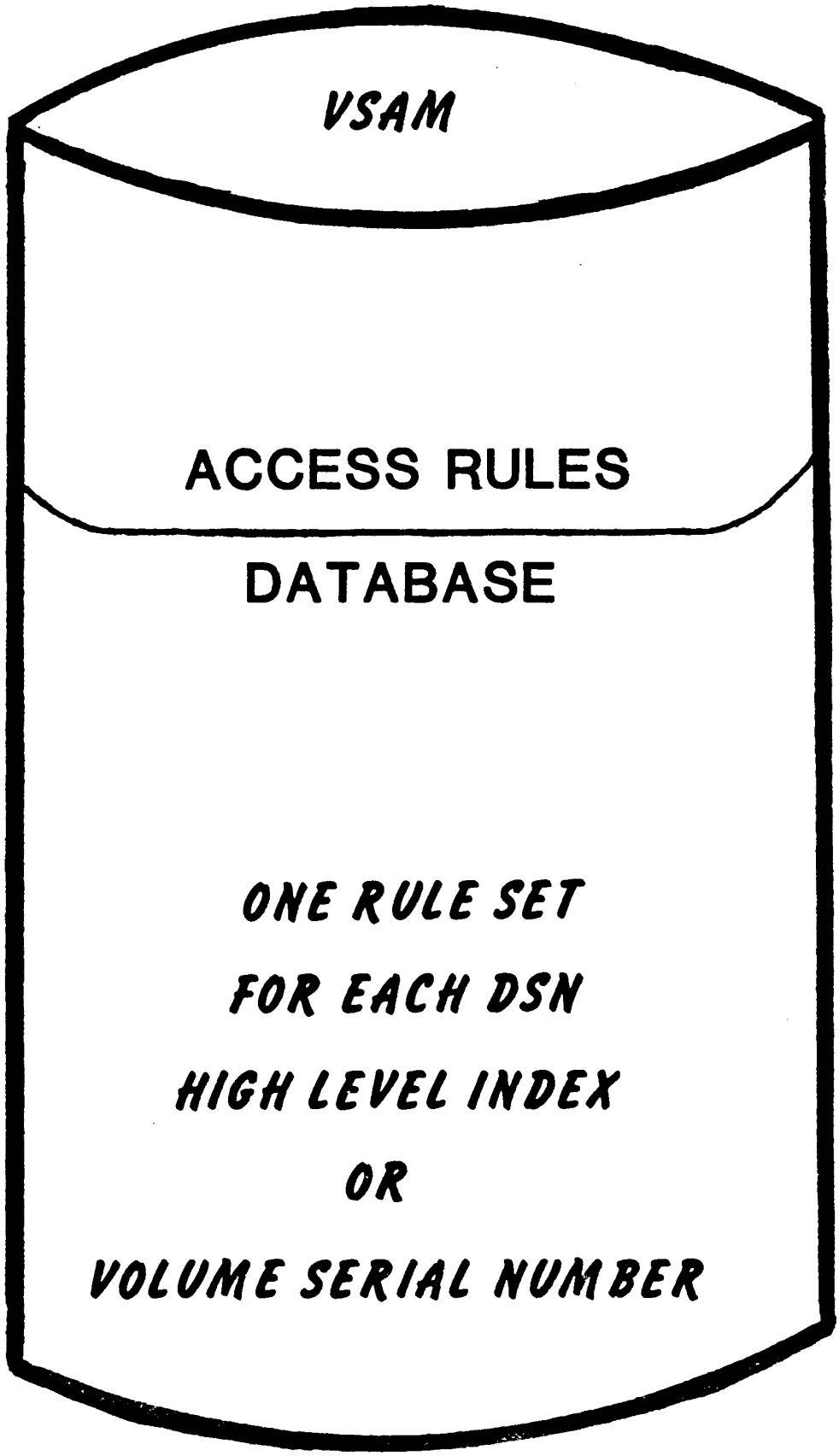
WHY ARE ACCESS RULES NEEDED?

- BY DEFAULT ACF2 WILL NOT ALLOW ACCESS TO A RESOURCE UNLESS AUTHORIZED VIA RULES.

- USED AS A REFERENCE FOR AUDITORS TO SEE WHO HAS ACCESS TO WHAT AND UNDER WHAT CONDITIONS.

WHAT IF ACCESS IS DENIED?

- ABEND S913-0C



RULE SET INTERPRETATION & RETRIEVAL

Rule interpretation not needed if:

- HIGH LEVEL INDEX = OWNED DATASET PREFIX AND RULEVLD IS NOT ON.
- DATASET IS TEMPORARY DSN.

Rule retrieval not needed if:

- HIGH LEVEL INDEX WAS PREVIOUSLY REFERENCED IN THAT JOB OR TSO SESSION.
- RULE KEY IS ON RESIDENT RULE LIST.

ACCESS RULE SETS

- Compiled and stored much like a program

EXAMPLE:

RULE CONTROL CARDS

```
$KEY(HIGH LEVEL INDEX)
$MODE(QUIET/LOG/WARN/ABORT)
$NOSORT
$OWNER(OWNER-ID)
$PREFIX(PREFIX-MASK)
$USERDATA(LOCAL-DATA)
%CHANGE UID1 UID2 . . .
%RCHANGE UID1 UID2 . . .
```

RULE COMMENT

```
* COMMENT STATEMENT
```

RULE ENTRIES

```
ACCESS RULE 1
ACCESS RULE 2
      . . .
ACCESS RULE N
```


Revised: 7/30/83

ACCESS RULE FORMAT

(SINGLE RULE ENTRY EXAMPLE)

$KEY(HIGH LEVEL INDEX)

DSN-MASK VOL(VOL-MASK) UID(UID-MASK) SOURCE(SOURCE-NAME)- "THE ENVIRONMENT"

SHIFT(SHIFT-NAME) LIB(LIB-MASK) PGM(PGM-MASK) DDN(DDN-MASK)-

UNTIL(MM/DD/YY) / FOR(DAYS) -

DATA(LOCALDATA) -

READ(X) WRITE(X) ALLOC(X) EXEC(X) - THE ACCESS PERMISSIONS POINTER

NEXTKEY(ALTERNATE-KEY)

"X" APPLIES TO:

A ALLOW (NO LOG),

L ALLOW AND LOG, OR

P PREVENT AND LOG AS A VIOLATION ATTEMPT

EXAMPLE:

```
$KEY(SYS1)
 LINKLIB   UID(CDSDPSY)   READ(A)   WRITE(A)
 PARMLIB   UID(")         READ(A)   WRITE(A)
```

NOTE: THE DEFAULT VALUE IS P(PREVENT)
DITTO MARKS (") CAN BE USED TO REPEAT VALUE FROM PREVIOUS LINE

Revised: 4/25/84

DATASET SPECIFICATION

- FULLY SPECIFIED NAME (NO SUBSTITUTION CHARACTERS USED)

- PATTERNS

  - CHARACTER-BY-CHARACTER SUBSTITUTION (ASTERISK)

    . AN ASTERISK MAY BE USED TO SUBSTITUTE FOR A SINGLE CHARACTER

    . ITS USE IS POSITIONAL

    . IF IT IS THE LAST CHARACTER IN A LEVEL, IT WILL ALSO MATCH A NULL

  - PADDING (MINUS SIGN)

    . A MINUS SIGN AS THE LAST (NOT THE ONLY) CHARACTER OF AN INDEX LEVEL IS SHORTHAND NOTATION FOR PADDING OUT THE REST OF THE INDEX LEVEL WITH ASTERISKS.

  - INDEX SUBSTITUTION (MINUS SIGN)

    . A MINUS SIGN AS THE ONLY CHARACTER OF AN INDEX LEVEL MAY BE USED TO REPRESENT ANY NUMBER OF DATASET INDEX LEVELS (0-21 LEVELS) CAN BE SUBSTITUTED.

Revised: 5/7/84

Sample DATASET MASKS

$KEY(PAYROLL)

DSN Mask	Matches	Does not Match
TEST.DATA	PAYROLL.TEST.DATA	Anything Else
ABC*.LOAD	PAYROLL.ABC.LOAD PAYROLL.ABC1.LOAD PAYROLL.ABC2.LOAD	PAYROLL.ABC PAYROLL.AB.LOAD PAYROLL.ABCDE.LOAD
*BC.LOAD	PAYROLL.ABC.LOAD PAYROLL.XBC.LOAD	PAYROLL.BC.LOAD PAYROLL.AABC.LOAD
ABC-.LOAD	PAYROLL.ABC.LOAD PAYROLL.ABC1.LOAD PAYROLL.ABC12345.LOAD	PAYROLL.AB.LOAD PAYROLL.ABC.DEF.LOAD
-.LOAD	PAYROLL.LOAD PAYROLL.ABC.LOAD PAYROLL.ABC12345.LOAD PAYROLL.A.B.C.D.E.F.LOAD	PAYROLL.LOAD.DATA
$-.-	PAYROLL.$MINE PAYROLL.$ABC.MASTER PAYROLL.$A.B.C.E.F	PAYROLL.MINE PAYROLL.ABC.DATA
-	Matches all datasets with a high level index of PAYROLL.	

Revised 4/25/84

example-HIGH LEVEL INDEX-'PARTS'

SITUATION:

PARTS.PROD.- ARE THE APPLICATION PROGRAM PRODUCTION LIBRARIES

PARTS.TEST.- ARE THE APPLICATION PROGRAM TEST LIBRARIES

*DSDQC... ARE THE QUALITY CONTROL STAFF UID STRINGS

*DSDPAP... ARE THE APPLICATION PROGRAMMERS UID STRINGS

```
$KEY(PARTS)

*  ALLOW APs EXECUTE-ONLY ACCESS TO PRODUCTION CODE
   PROD.- UID(*DSDPAP) EXEC(A)

*  ALLOW APs TO MODIFY TEST LIBRARIES
   TEST.- UID(*DSDPAP) READ(A) WRITE(L)

*  ALLOW QCs TO TEST CODE
   TEST.- UID(*DSDQC) READ(A)
```

ACCESS DETERMINATION

- RULES INTERPRETED FROM MOST SPECIFIC TO MOST GENERAL ENVIRONMENT

- PRIVILEGES GRANTED ARE DETERMINED BY FIRST RULE ENTRY THAT MATCHES THE ENVIRONMENT

RULE SELECTION ALGORITHM

1. DSN	PATTERNS FROM MOST SPECIFIC TO MOST GENERAL
2. VOL	PATTERNS FROM MOST SPECIFIC TO MOST GENERAL
3. UID	PATTERNS FROM MOST SPECIFIC TO MOST GENERAL
4. SOURCE	OPERANDS, IN ALPHABETICAL ORDER ("NOT SPECIFIED" IS LAST)
5. SHIFT	OPERANDS, IN ALPHABETICAL ORDER ("NOT SPECIFIED" IS LAST)
6. LIB	PATTERNS FROM MOST SPECIFIC TO MOST GENERAL
7. PGM/PROG	PATTERNS FROM MOST SPECIFIC TO MOST GENERAL
8. DDN	PATTERNS FROM MOST SPECIFIC TO MOST GENERAL
9. UNTIL	DATES FROM EARLIEST TO LATEST

POOR RULE SAMPLE

```
$KEY(SYS1)
 MAN*    UID(CDSDPSYTMMM) R(A) W(L) A(L)
 MAN*    UID(CDSDPSY) R(A)
 PARMLIB UID(CDSDPSYTMMM) R(A) W(L) A(L)
 PARMLIB UID(CDSDPSY) R(A)
 UADS UID(CDSDPSYTMMM) R(A) W(L) A(L)
 -       R(A) E(A)
```

NOTE: This rule set allows <u>any</u> user to read <u>any</u> SYS1 dataset!

Revised: 4/25/84

BETTER RULE SAMPLE

```
$KEY(SYS1)
 MAN*    UID(CDSDPSYTMMM) R(A) W(L) A(L)
 MAN*    UID(CDSDPSY) R(A)
 MAN*
 PARMLIB UID(CDSDPSYTMMM) R(A) W(L) A(L)
 PARMLIB UID(CDSDPSY) R(A)
 PARMLIB
 UADS UID(CDSDPSYTMMM) R(A) W(L) A(L)
 UADS R(P) W(P) A(P)
 -       R(A) E(A)
```


Revised: 07/30/83

PROGRAM PATHING

LIMIT ACCESS TO

DATASETS OR VOLUMES

THROUGH SPECIFIC PROGRAMS

VIA USE OF

LIB/PGM/DDN

PARAMETERS

PROGRAM PATHING

FOR

INDEX-'PARTS'

SITUATION:

PARTS.PROD.- ARE THE APPLICATION PROGRAM PRODUCTION LIBRARIES

PARTS.TEST.- ARE THE APPLICATION PROGRAM TEST LIBRARIES

*DSDQC... ARE THE QUALITY CONTROL STAFF UID STRINGS

*DSDPAP... ARE THE APPLICATION PROGRAMMERS UID STRINGS

$COPY IS A UTILITY WHICH COPIES LOAD MODULES, KEEPS AN ACCURATE HISTORY AND ARCHIVES OLD COPIES OF THE PROGRAMS FOR BACKUP AND RECOVERY.

```
$KEY(PARTS)

*  ALLOW APs TO OBTAIN PRODUCTION CODE
   PROD.- UID(*DSDPAP) LIB(PROD.UTILITY) PGM($COPY) DDN(QCIN) -
   READ(L)

* ALLOW QCs TO TEST AND COPY CODE INTO PRODUCTION LIBRARIES
  TEST.-  UID(*DSDQC) READ(A)

  PROD.-  UID(*DSDQC) LIB(PROD.UTILITY) PGM($COPY) DDN(APOUT) -
  READ(A) WRITE(L)
```

QUALIFIED LIBRARY EXAMPLE

- Access Rule With Qualified Library

```
$KEY(PARTS)
 PROD.- UID(*DSDPAP) LIB('SYS2.LOADLIB') -
 PGM($COPY) E(A) R(A)
```

- Access Rule for Qualified Library

```
$KEY(SYS2)
 LOADLIB UID(*DSDPAP) E(A)
```


Revised: 5/2/83

SHIFT

. Used to Deny Access outside of 'SHIFT'

. Uses Information Storage 'SHIFT' Records

SAMPLE

```
$KEY(SYS1)
 PARMLIB  UID(CDSDPSY)  SHIFT(DAYS) R(A) E(A)
 PARMLIB  UID(") R(L) E(A)
```

IF 'CDSDPSY' ACCESSES 'SYS1.PARMLIB' WITHIN THE SHIFT DESCRIBED BY 'DAYS' ACCESS WILL BE ALLOWED. IF THE ACCESS IS OUTSIDE OF 'DAYS' THE ACCESS WILL BE LOGGED.

Revised: 6/8/83

$MODE

USED ONLY IF

- OPTS MODE(RULE NO-RECORD-MODE NO-$MODE)

AND

- ACCESS WOULD HAVE BEEN PREVENTED BY AN EXISTING RULE

AND

- IF $MODE IS SPECIFIED IN THE RULE SET

SAMPLE

```
$KEY(SYS2)
$MODE(LOG)
 WOW.- UID(CDSDPSY) R(A) W(A) A(A) E(A)
```

IF ANYONE OTHER THAN 'CDSDPSY' ACCESSES 'SYS1.WOW.-' ACCESS WOULD NORMALLY BE DENIED BUT $MODE(LOG) TAKES EFFECT INSTEAD.

Revised: 10/10/84

$NOSORT

- *Used only if OPTS specifies*
  - *OPTS $NOSORT*
- *Stores rule without normal ACF2 sorting.*
- *Rule will be interpreted as stored.*
- *Care must be taken when using $NOSORT.*

Revised: 10/10/84

$OWNER

. 1-24 character field

. Stored with rule

. Written in SMF data

. Supported by user

. Has no effect on rule processing

Revised: 7/22/83

$PREFIX

- 1-24 maskable characters

- $KEY remains the key to the VSAM record

- $PREFIX is used for dataset matching

Example:

```
$KEY(USR)
$PREFIX(USR.CNTL)
 DATA  UID(CDPOF) READ(A)
 INPUT UID(CDOPE) READ(L)
```

NEXTKEY

- *Merging rule sets*
- *Splitting rule sets*
- *Delegating change authority at the dataset name level.*
- *Used in conjunction with $PREFIX*

Revised: 7/22/83

MULTIPLE HIGH LEVEL INDICES POINTING TO A SINGLE RULE SET

- *Like datasets require same ACF2 processing*
- *NEXTKEY points to rule set to use*
- *$KEY remains key to VSAM record*
- *$PREFIX is used for dataset matching*

SAMPLE DATASETS TO VALIDATE

```
PRODØ1.A.DATA
PRODØ2.A.DATA
PRODØ3.A.DATA
      .
      .
      .
PROD99.A.DATA
```

RULE SETS

```
$KEY(PRODØ1)
 - NEXTKEY(PRODZZ)
      .
      .
      .
$KEY(PROD99)
 - NEXTKEY(PRODZZ)


$KEY(PRODZZ)
$PREFIX(PROD**)
 'PROD45.A.DATA' UID(*AAPPRD) R(A) W(L)
  A.DATA UID(*AAPP) R(A)
```


Revised: 7/22/83

SPLIT HIGH LEVEL INDEX

- ***Multiple rule sets needed for each user***
- ***No room left in rule set***
- ***Delegate rule maintenance***
- ***$KEY remains key to VSAM record***
- ***$PREFIX is used for dataset matching***

SAMPLE DATASETS TO VALIDATE

```
PAYROLL.LOCAL.-
PAYROLL.REMOTE.-
PAYROLL.PRODDATA
```

RULE SETS

```
$KEY(PAYROLL)
 PRODDATA UID(**PYPRD) R(A) W(L)
 LOCAL.- NEXTKEY(PAYLCL)
 REMOTE.- NEXTKEY(PAYRMT)
```

```
$KEY(PAYLCL)
$PREFIX(PAYROLL.LOCAL)
 - UID(**PYPRD) R(A) W(L)
```

```
$KEY(PAYRMT)
$PREFIX(PAYROLL.REMOTE)
 - UID(**PYPRQ) R(A) A(L) W(L)
```


Revised: 7/25/83

ADDITIONAL POINTS FOR NEXTKEY

- *Only used if access would have been prevented.*

- *Up to a chain of 25 NEXTKEY's can be used.*

- *NEXTKEY loops will be found at rule interpretation.*

Revised: 7/22/83

USE OF $USERDATA

- MAINTAIN INFORMATION ON RULE SET
- 1-64 CHARACTER FIELD
- PASS DATA TO DATASET VIOLATION EXIT OR DATASET POST VALIDATION EXIT

Revised: 6/8/83

SECURED VOLUME RULES

- REQUIRED WHEN VOLUME IS DEFINED IN THE SECURED VOLUME LIST (SECVOLS).

- PSEUDO DATASET NAME (@VOLSER.VOLUME OR VOLUME.@VOLSER PER OPTS RECORD) FOR SECURED VOLUME REQUESTS.

- ACF2 SEARCHES ACCESS RULE DATABASE FOR MATCHING @VOLSER KEY.

SAMPLE VOLUME RULE SET

```
$KEY(@TEST01)
$USERDATA(ALLOW SPECIFIC USERS USE OF SECURED VOLUME)
 VOLUME UID(CDSDPSY) R(A) W(A) A(A) E(A)
 VOLUME R(A) E(A)
```


Revised: 10/18/84

VSAM ALLOCATION CONSIDERATIONS

UNIQUE DATASET NAMES

NAME ALL PORTIONS OF THE VSAM CLUSTER IN RULE SET.

CLUSTER-NAME: A.B.C
DATA-NAME: A.B.C.DATA
INDEX NAME: A.B.C.INDEX

```
$KEY(A)
*ALLOW USER 'X' TO READ AND WRITE CLUSTER
 B.C UID(X) READ(A) WRITE(A)
*ALLOW USER 'Y' TO DEFINE, DELETE AND ALTER CLUSTERS.
 B.C UID(Y) ALLOC(A)
 B.C.DATA UID(Y) ALLOC(A)
 B.C.INDEX UID(Y) ALLOC(A)
```

VSAM ALLOCATION CONSIDERATIONS

DATASPACE/PAGESPACE

- Internal Name Generated by VSAM

  Z999999x

- Internal Name Generated by ACF2 based on OPTS record

  @volser.VOLUME

  or

  VOLUME.@volser

```
$KEY(@VSAM01)
*ALLOW USER 'Z' TO DEFINE AND DELETE
*VSAM DATASPACES ON VOLUME "VSAM01"
 VOLUME UID(Z) ALLOC(A)
```


Revised: 10/18/84

VTOC RULES

- REQUIRED ONLY IF THE VTOC IS USED AS A DATASET.
- PSEUDO DATASET NAME (SYSVTOC.VOLSER) GENERATED BY ACF2 FOR VTOC REQUESTS.
- ACF2 SEARCHES ACCESS RULE DATABASE FOR SYSVTOC RULE.

SAMPLE VTOC RULE SET

```
$KEY(SYSVTOC)
 WORK01 UID(CDSCPSY) R(A) W(L) A(L)
 WORK01 R(A)
```

%RCHANGE AND %CHANGE

- DELEGATE RULE MAINTENANCE
- CHECKED EACH TIME A RULE IS BEING MODIFIED IF:
  - CHANGE IS ALLOWED, AND
  - USER IS NOT OWNER OF THE RULE SET, OR
  - USER IS NOT A SECURITY OFFICER ACTING WITHIN HIS/HER SCOPE

%RCHANGE VS. %CHANGE

	%RCHANGE	%CHANGE
Can user affect control cards?	NO	YES
Can user delegate this Authority?	NO	YES
Can user modify/add/delete any/all Rule Entry Lines?	YES	YES

Revised: 10/5/84

DELEGATING CHANGE AUTHORITY

```
$KEY(SYS1)
$MODE(ABORT)
 PARMLIB  NEXTKEY(SYSP)
 UADS  NEXTKEY(SYSU)
 MAN*  NEXTKEY(SYSM)


$KEY(SYSP)
$MODE(WARN)
$PREFIX(SYS1)
%RCHANGE CPOP
 PARMLIB UID(XYZ) R(A)


$KEY(SYSU)
$MODE(ABORT)
$PREFIX(SYS1)
%RCHANGE  CDOPOS
 UADS UID(ABC) R(A)


$KEY(SYSM)
$PREFIX(SYS1)
%RCHANGE  CDOPSP
```

ACF2 COMMANDS UNDER TSO READY MODE

. ACFCOMP * /dsname LIST/NOLIST
MAXRULE(nnn) ALL

. ACFNRULE KEY(key)
ADD(rule text) DELETE(char.string)
LIST/NOLIST VERIFY/NOVERIFY

Revised: 1/23/84

"ACFNRULE" EXAMPLE

- ACFNRULE KEY(KEY) ADD(RULE TEXT) -
  DELETE(CHAR.STRING) LIST/NOLIST VERIFY/NOVERIFY

```
READY
ACFNRULE KEY(PAYROLL) DEL(TEST) ADD(MONTHLY.STATS UID(CAPY) R(A))

DEL-->ACF50010 THE FOLLOWING RULES WILL BE DELETED
        TEST.-  UID(**PYTST) READ(A) WRITE(A) ALLOC(A) EXEC(A)
        TEST.-  UID(**PYPRD)
VER-->ACF50009 VERIFY DELETION OF ABOVE RULES (YES/NO) YES
      ACF70010 ACF COMPILER ENTERED
KEY-->$KEY(PAYROLL)
       MASTER.DATA  UID(**PYPRD) READ(A) WRITE(A) ALLOC(L) EXEC(A)
       MASTER.LOAD  UID(**PYPRD) EXEC(A)
       MASTER.-  UID(**PYPRD) READ(A) EXEC(A)
       -  UID(**PYPRD) PGM(PY****) LIB(MASTER.LOAD) READ(A) WRITE(A) -
          ALLOC(A) EXEC(A)
ADD-->MONTHLY.STATS  UID(CAPY) R(A)
      ACF70050 IN ONE OR MORE RULES, EXECUTE ACCESS WAS SET TO READ ACCESS
      ACF70051 TOTAL RECORD LENGTH = 214 BYTES, 5 PERCENT UTILIZED
      ACF50021 PAYROLL REPLACED
      READY
```

NOTE: ALSO AVAILABLE IN BATCH BUT WITHOUT VERIFY OPTION

Revised: 1/23/84

ACF2 SUBCOMMANDS UNDER RULE MODE

SET RULE

- COMPILE [*/DSN] [LIST/NOLIST] MAXRULE(NNN) ALL
- DECOMP/LIST [*/RULE-ID/LIKE(RULE-MASK)] INTO(DSN)
- STORE FORCE/NOFORCE - STORES A COMPILED SET OF RULES
- DELETE [*/RULE-ID]
- TEST [*/RULE-ID]

Revised: 6/8/83

COMPILE & DECOMPILE EXAMPLE

```
READY
ACF
ACF
COMPILE *
ACF70010 ACF COMPILER ENTERED
 1.   .$KEY(ACCTPAY)
 2.   .%CHANGE BA**MGRIFFF
 3.   . DAILY.- UID(*AAPPRD) PGM(APD***) LIB(PROD.LOAD)-
 4.   .          R(A) W(A) A(A)
 5.   . MONTHLY.- UID(*AAPPRD) PGM(APM***) LIB(PROD.LOAD)-
 6.   .          R(A) W(A) A(A)
 7.   . -.B-.- UID(BAAPPRD) PGM(AP****) R(A) W(A)
 8.   ACF70021 WARNING-PROGRAM SPECIFIED, BUT LIBRARY WAS NOT
 9.   . MONTHLY.BMASTER UID(BAAPPRDBAPEOM) PGM(APMMST)-
10.   .                LIB('ACCTDEPT.SPECIAL.LOAD') R(A) W(A) A(L)
11.   .  (RETURN KEY)
12.   ACF70050 IN ONE OR MORE RULES, THE EXECUTE ACCESS WAS SET TO
13.         THE READ ACCESS
14.   ACF70051 TOTAL RECORD LENGTH = 292 BYTES, 7 PERCENT UTILIZED
15.   ACF
16.   DECOMP *
17.   ACF60061 RULE ACCTPAY NEVER STORED
18.   $KEY(ACCTPAY)
19.   %CHANGE BA**MGRIFFF
20.    DAILY.- UID(*AAPPRD) PGM(APD***) LIB(PROD.LOAD) -
21.          READ(A) WRITE(A) ALLOC(A) EXEC(A)
22.    MONTHLY.BMASTER UID(BAAPPRDBAPEOM) PGM(APMMST) -
23.          LIB('ACCTDEPT.SPECIAL.LOAD') READ(A) WRITE(A) ALLOC(L) EXEC(A)
24.    MONTHLY.- UID(*AAPPRD) PGM(APM***) LIB(PROD.LOAD) -
25.          READ(A) WRITE(A) ALLOC(A) EXEC(A)
26.    -.B-.- UID(BAAPPRD) PGM(AP****) READ(A) -
27.          WRITE(A) EXEC(A)
28.   ACF
29.   STORE
```

TEST EXAMPLE

```
    READY
→   ACF
→   ? SET RULE
→   ? COMPILE *
    ACF70010 ACF COMPILER ENTERED
→   . $KEY(ACCTG)
    .  LATE UID(*S) READ(A)
    .  ORDERS UID(*M) READ(L) UNTIL(09/15/83) -
        DATA(ACCESS TEMPORARILY ALLOWED UNTIL 9/15)
    .  - UID(*AA) READ(A) WRITE(A) ALLOC(A) SOURCE(FINANCE)

    .(RETURN)
    ACF70050 IN ONE OR MORE RULES, THE EXECUTE ACCESS WAS SET TO
    THE READ ACCESS
    ACF70051 TOTAL RECORD LENGTH= 215 BYTES, 5 PERCENT UTILIZED

→   ? TEST *
→   . DSN(PAYABLE) UID(*SEA)
    ACF71014 THE FOLLOWING PARAMETERS ARE IN EFFECT:
     DDN=******    UID=*SEA DATE=01/29/83 SOURCE=********
     VOL=******    DSN=ACCTG.PAYABLE
     PGM=******    LIB=***.***

     NO RULE APPLIES, ACCESS WOULD BE DENIED
→   . DSN(ORDERS) UID(*MIC) DATE(10/15/83)
    ACF71014 THE FOLLOWING PARAMETERS ARE IN EFFECT:
     DDN=******    UID=*MIC DATE=10/15/83 SOURCE=********
     VOL=******    DSN=ACCTG.ORDERS
     PGM=******    LIB=***.***

     NO RULE APPLIES, ACCESS WOULD BE DENIED
→   . DSN(ANYTHING) UID(*AAUMGR) DATE(12/25/83) SOURCE(SALES)
    ACF71014 THE FOLLOWING PARAMETERS ARE IN EFFECT:
     DDN=******    UID=*AAUMGR DATE=12/25/83 SOURCE=SALES
     VOL=******    DSN=ACCTG.ANYTHING
     PGM=******    LIB=***.***

     NO RULE APPLIES, ACCESS WOULD BE DENIED
→   . DSN(ORDERS) UID(*MIC) DATE(08/30/83)
    ACF71014 THE FOLLOWING PARAMETERS ARE IN EFFECT:
     DDN=******    UID=*MIC DATE=08/30/83 SOURCE=SALES
     VOL=******    DSN=ACCTG.ORDERS
     PGM=******    LIB=***.***

      THE FOLLOWING WOULD APPLY: READ(L) WRITE(P) ALLOC(P) EXEC(L)
      RULE DATA CONTENTS: ACCESS TEMPORARILY ALLOWED UNTIL 9/15
    . END
    ? STORE
    ACF60026 RULE ACCTG STORED
    ?
```

NOTE: TEST COMMAND WILL NOT GO THRU ANY EXIT LOGIC

"SHOW MODE" OUTPUT

```
?show mode

MODE: RULE
```

ACF2 BATCH

REPORTS FOR

ACCESS RULES

Revised: 7/25/83

ACFRPTDS
DATASET ACCESS JOURNAL

. ACFRPTDS PROVIDES:
  - LOGGING OF ALL INVALID DATASET AND PROGRAM ACCESS
  - LOGGING WHEN REQUESTED WITHIN THE RULE
  - LOGGING WHEN TRACING A USER

. FOUR TYPES OF RECORDS:
  - DATASET LOGGINGS
  - DATASET ACCESS VIOLATIONS
  - DATASET ACCESS TRACE REQUESTS
  - PROGRAM LOGGINGS AND VIOLATIONS

. ACCESS IS NOT JOURNALED IF:
  - USER IS OWNER OF DATA
  - RULE ALLOWS ACCESS WITHOUT LOGGING

ACFRPTDS - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS JOURNAL          - PAGE    1
DATE 10/10/84 (84.284) TIME 08.06 DATASET VIOLATION RECORDS

USRCAH    84.283 10/09 08.08 DATASET  VIOLATION
USRCAH    VOL=WORK01 DDN=ISP08065 DSN=USRPEG.ACF400.AUDITWK
$TDN      VOL=       PGM=SPF      LIB=SYS1.LINKLIB
TSU 6479  DA-OPN INPUT   NORULE   NAM=CINDY
SKK1      SRC=LV439               UID=SHC99USRCAH  0190

USRCAH    84.283 10/09 09.25 DATASET  VIOLATION
USRCAHA   VOL=WORK02 DDN=SYSUT1   DSN=USRPEG.REPORTS.DATA1
S1        VOL=       PGM=IEBGENER LIB=SYS1.LINKLIB
JOB 6540  DA-OPN INPUT   NORULE   NAM=CINDY
SKK1      SRC=LV439               UID=SHC99USRCAH  0190

USRCAH    84.283 10/09 10.55 DATASET  VIOLATION
USRCAH    VOL=WORK01 DDN=ISP10533 DSN=USRPEG.ACF400.AUDITWK
$TDN      VOL=       PGM=SPF      LIB=SYS1.LINKLIB
TSU 6622  DA-OPN INPUT   NORULE   NAM=CINDY
SKK1      SRC=LV439               UID=SHC99USRCAH  0190

**************************************************************************

ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS CROSS REFERENCE - PAGE    1
DATE 10/10/84 (84.284) TIME 08.06 DATASET VIOLATION RECORDS

INDEX     COUNT  LID       COUNT  LID       COUNT
USRPEG        3
--------------   USRCAH        3
```


Revised: 10/16/84

ACFRPTRL

RULE-ID MODIFICATION LOG

- USES ACF2 SMF RECORDS ISSUED FOR RECOVERY PURPOSES TO PROVIDE AN UPDATE ACTIVITY REPORT FOR ACF2'S ACCESS RULE DATABASE.

- PRODUCES ONE RECORD EACH TIME SOMEONE CHANGES THE ACCESS RULE DATABASE.

ACFRPTRL - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTRL - RULE MODIFICATION LOG - PAGE    1
DATE 10/10/84 (84.284) TIME 08.05 MASK(USR-)

     DATE     TIME  RULE-ID  JOBNAME  CHANGER  CHANGE   CPU

84.282 10/08 14.26 USRTMS   USRTMS   USRTMS   REPLACE  SKK1
84.282 10/08 14.37 USRTMS   USRTMS   USRTMS   DELETE   SKK1
84.282 10/08 14.38 USRTMS   USRTMS   USRTMS   INSERT   SKK1
84.282 10/08 14.38 USRTMS   USRTMS   USRTMS   REPLACE  SKK1
84.282 10/08 14.40 USRTMS   USRTMS   USRTMS   REPLACE  SKK1
84.283 10/09 16.39 USRPEG   SSDRSO   SSDRSO   REPLACE  SKK1
```

ACFRPTIX

ACCESS INDEX REPORT

. AIDS THE SECURITY OFFICER OR AUDITOR IN DETERMINING WHEN THE ACCESS ENVIRONMENT FOR A PARTICULAR DATASET PREFIX HAS CHANGED.

. SHOWS RULES OR LOGONID RECORDS WHICH AFFECTED RULES FOR THE SPECIFIED HIGH LEVEL INDEX.

Revised: 7/25/83

ACFRPTIX - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTIX - ACCESS INDEX DETAIL REPORT - PAGE   1
DATE 10/10/84 (84.284) TIME 08.06 PREFIX(USR*****) DATASET INDEX REPORT

* RULE USRTMS   STORED BY USRTMS   ON 84.282 (10/08) 14.26
ACF75052 ACCESS RULE USRTMS STORED BY USRTMS ON 10/08/84-14:26
$KEY(USRTMS)
 STARTUP.CLIST UID(USRTMS) EXEC(A)
 *- UID(*****SSDJMM) READ(A) EXEC(A)
 *- READ(A) WRITE(A) ALLOC(A) EXEC(A)


* RULE USRTMS   STORED BY USRTMS   ON 84.282 (10/08) 14.38
ACF75052 ACCESS RULE USRTMS STORED BY USRTMS ON 10/08/84-14:38
$KEY(USRTMS)
 - UID(*****USR) READ(A) EXEC(A)


* RULE USRTMS   STORED BY USRTMS   ON 84.282 (10/08) 14.38
ACF75052 ACCESS RULE USRTMS STORED BY USRTMS ON 10/08/84-14:38
$KEY(USRTMS)
 - UID(*****USR) READ(A) EXEC(A)


* RULE USRTMS   STORED BY USRTMS   ON 84.282 (10/08) 14.40
ACF75052 ACCESS RULE USRTMS STORED BY USRTMS ON 10/08/84-14:40
$KEY(USRTMS)
%CHANGE SHS99DOCTMS
 INFOACF.TEXT UID(SHS99USR) READ(A) EXEC(A)
 INFOACF.TEXT UID(SH*99DOC) READ(A) WRITE(A) EXEC(A)
 INFOACF.TEXT UID(SH*99MSG) READ(A) EXEC(A)
 - UID(SHS99DOCTMS) READ(A) WRITE(A) ALLOC(A) EXEC(A)


* RULE USRPEG   STORED BY SSDRSO   ON 84.283 (10/09) 16.39
ACF75052 ACCESS RULE USRPEG STORED BY SSDRSO ON 10/09/84-16:39
$KEY(USRPEG)
 CONF84.PART* UID(*****USR) READ(A) EXEC(A)
 FB.DATA1 UID(*****USR) READ(L) EXEC(A)
 PDS.JOBS UID(*****USR) READ(A) EXEC(A)
 PSR.TEXT UID(*****USR) READ(A) EXEC(A)
 *- UID(*****DOCRMZ) READ(A) EXEC(A)
 *- UID(*****PETE315) READ(A) WRITE(A) ALLOC(A) EXEC(A)
 *- UID(*****USR) READ(A) EXEC(A)
```


Revised: 10/16/84

ACFRPTXR

CROSS-REFERENCE REPORT

. DETERMINE WHO HAS ACCESS TO WHAT BASED ON CURRENT RULES

. DISPLAYS LOGONID AND REASON FOR ACCESS BEING ALLOWED, E.G.

NC - NON CANCELLABLE

O - OWNER

RA - READ-ONLY/NON-CANCELLABLE

SC - SCOPED SECURITY OFFICER

SE - SECURITY OFFICER (UNSCOPED)

U - UID MATCH ON THE RULE

. PARAMETER DRIVEN

- CAN USE ON-LINE ACF2 DATASET OR RESOURCE RULES OR ALTERNATE SET OF CLUSTERS

ACFRPTXR - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTXR - CROSS REFERENCE REPORT - PAGE    1
DATE 10/10/84 (84.284) TIME 08.07 DSET,ACF2

--------------------------------------------------------------------------------
DATASET: USR.COMMLIB.DATA
STORED: 10/09/84-17:58 BY: USRISO
CONTROLS: %CHANGE DATA EXISTS


LOGONIDS THAT HAVE ACCESS WITHOUT RULES

ACFSEC(SE)   ACFUSER(SE) MAINTLID(NC) SSDISO(NC,SE)              TESTID(RA)   TSSISO(NC)
USRISO(SE)

COMMLIB.DATA UID(SHC**DOC) READ(A) EXEC(A)
DOCBSM       DOCBSM1       DOCCLC      DOCCLC1      DOCDLW       DOCGK        DOCJC
DOCLJW       DOCLJW1       DOCLMG      DOCRMZ       DOCRMZ1      DOCVKD

COMMLIB.DATA UID(SHS**USR) READ(A) WRITE(A) EXEC(A)
USRELN       USRGDP        USRGFT      USRHAZ       USRISO(U,SE) USRLJB       USRLLB
USRPEG       USRTMR        USRTMS      USRTMS1

********************************************************************************


ACF2 UTILITY LIBRARY - ACFRPTXR - RULE RECORD SUMMARY - PAGE    1
DATE 10/10/84 (84.284) TIME 08.07 DSET,ACF2

--------------------------------------------------------------------------------
DATASET KEY: USR
STORED: 10/09/84-17:58 %CHANGE DATA BEING PROCESSED

LOGONIDS THAT CAN UPDATE THIS RULE WITHOUT ANY %CHANGE OR %RCHANGE AUTHORITY
ACFSEC(SE)   ACFUSER(SE)  SSDISO(NC,SE)              USRISO(SE)

%CHANGE SHS**USR
USRELN       USRGDP        USRGFT      USRHAZ       USRISO(U,SE) USRLJB       USRLLB
USRPEG       USRTMR        USRTMS      USRTMS1
```


Revised: 10/10/84

ACFRPTRX

LOGONID ACCESS REPORT

. REVERSE CROSS-REFERENCE REPORT.

. LISTS ALL ACCESS OR GENERALIZED RESOURCE RULES THE USER'S UID MATCHES.

. INDICATES OTHER PRIVILEGES THE USER HAS.

ACFRPTRX - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTRX - LOGONID ACCESS REPORT - PAGE    1
DATE 10/10/84 (84.284) TIME 08.08

INPUT PARAMETERS: DSET LID(USRELN) RMASK(USR-) TITLE(SKK INC.)

LID FILE PROCESSING COMPLETE, RECORDS SELECTED = 00001
RULE FILE PROCESSING COMPLETE, RECORDS SELECTED = 00004

--------------------------------------------------------------------------------
LID: USRELN   UID: SHS99USRELN
NAME: EDWARD

$KEY(USR)
STORED: 10/09/84-17:58 BY: USRISO
 ACRONYM.TEXT UID(SH***USR) READ(A) WRITE(A) EXEC(A)
 COMMLIB.DATA UID(SHS**USR) READ(A) WRITE(A) EXEC(A)
 CUSTIBM.PRODDATA UID(*****USR) READ(A) WRITE(A) ALLOC(A) EXEC(A)
 CUSTIBM.PRODDATA UID(*) READ(A) EXEC(A)
 FORMS.DATA UID(SH***USR) READ(A) WRITE(A) ALLOC(A) EXEC(A)
 FORMS.DATA UID(SH) READ(A) EXEC(A)
 FORUMLIB.- UID(SH***USR) READ(A) EXEC(A)
 JOBDESCP.- UID(*)
 PERSONEL.- UID(*)
 PLANS.- UID(*)
 PROCEDUR.DATA UID(SH***USR) READ(A) WRITE(A) EXEC(A)
 PROCEDUR.DATA UID(SH) READ(A) EXEC(A)
 PROJECTS.- UID(SH***USR) READ(A) EXEC(A)
 PROJECTS.- UID(*)
 *- UID(SH***USR) READ(A) WRITE(A) EXEC(A)

$KEY(USRELN)
**** USER HAS ACCESS TO ALL DATASETS FOR THIS KEY AS: O
STORED: 10/09/84-17:58 BY: USRISO

$KEY(USRGDP)
STORED: 10/09/84-17:58 BY: USRISO
 *- UID(*****USR) READ(A) WRITE(A) EXEC(A)

$KEY(USRISO)
STORED: 10/09/84-17:58 BY: USRISO
$MODE(LOG)
 PDS.JOBS
 - UID(*****USR) READ(A) WRITE(A) EXEC(A)
```

REVIEW ACCESS RULES

* CHECK THAT

  - EACH EXISTING HIGH LEVEL INDEX HAS A RULE SET
  - RULE ENTRIES ARE CORRECT (CORRECT NUMBER OF ASTERISKS IN A MASK, NO CONTRADICTORY ENTRIES, ETC.)
  - RULE ENTRIES ARE NOT TOO GENERAL FOR ADEQUATE CONTROLS
  - "LOG" VERSUS "ALLOW" IS USED WHERE AUDIT TRAILS ARE DESIRED
  - %CHANGE OR %RCHANGE ARE NOT USED INAPPROPRIATELY
  - LOCAL POLICIES AND NAMING CONVENTIONS ARE BEING ENFORCED
  - RULES ARE KEPT CURRENT

acf2

The Access Control Facility

SESSION 4

PRODUCTION JOB CONTROL

CONTROLLING PRODUCTION JOBS

- WHY CONTROL PRODUCTION JOBS?

  - *They are the 'Bread and Butter' of your business*

  - *A loss could have a serious effect on your business*

- REMEMBER THAT:

  - *Production jobs are very powerful*

  - *Production jobs may use powerful Logonids*

Revised: 07/30/83

WHAT SHOULD BE CONTROLLED?

USE OF A PRODUCTION LOGONID

* USED ONLY BY AND FOR PRODUCTION JOBS.

ACCESS TO PRODUCTION DATA FILES

* PRODUCTION PROGRAMS ONLY (TEST PROGRAMS USE TEST DATA).
* LOG ALL ACCESSES BY PRODUCT SUPPORT PERSONNEL.

CHANGES TO PRODUCTION LIBRARIES

* ONLY BY APPROPRIATE "SYSTEM LIBRARIAN" PERSONNEL FROM AUTHORIZED SOURCE.

CHANGES TO PRODUCTION JCL

* ONLY BY APPROPRIATE PERSONNEL FROM APPROPRIATE SOURCE.
* ALL PRODUCTION JCL SHOULD RESIDE IN HIGHLY CONTROLLED LIBRARY.

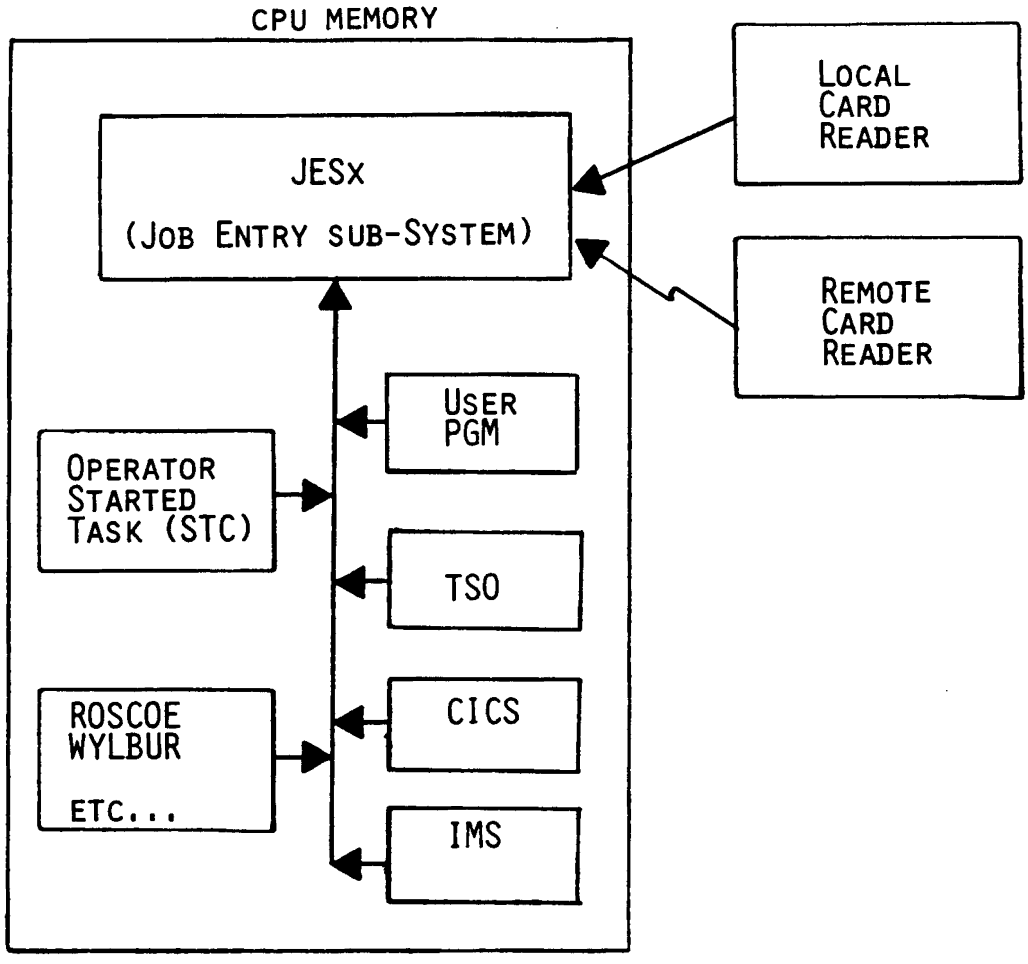
SUBMISSION OF PRODUCTION JOBS

* ONLY BY PRODUCTION LOGONID.
* ONLY FROM AUTHORIZED SOURCE.

LOG ALL EXCEPTIONS . . .

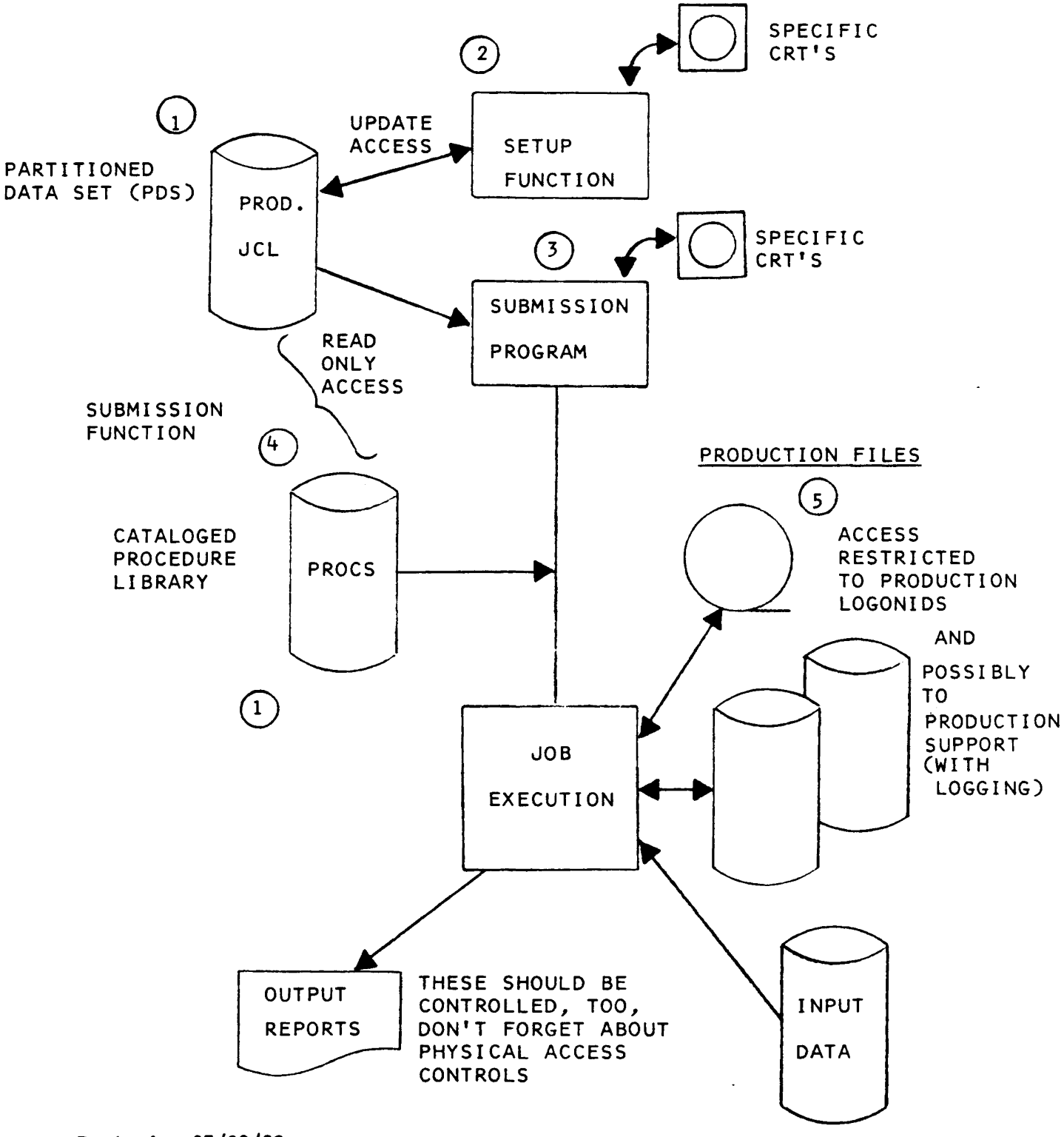
7/30/83

CONSIDER THE WAYS JOBS CAN BE SUBMITTED AND THE SOURCES FOR SUBMISSION.



JOBS OR PROGRAMS INSIDE THE SYSTEM CAN SUBMIT OTHER JOBS TO THE "INTERNAL READER"

CONTROLLING ALL ASPECTS OF PRODUCTION PROCESSING



Revised: 07/30/83

CONTROLLING ALL ASPECTS OF PRODUCTION PROCESSING

NOTES CONCERNING PREVIOUS DIAGRAM:

(1) CONTROL INVOKING JCL LIBRARY AS WELL AS CATALOGED PROCEDURE LIBRARIES TO PREVENT UNAUTHORIZED ADDITIONS, CHANGES, OR DELETIONS.

(2) ALLOW ONLY A SMALL, SPECIFIC, GROUP OF PEOPLE (AND ONLY AT SPECIFIC TERMINALS) TO SET UP PRODUCTION JOBS.

(3) ALLOW ONLY A SMALL, SPECIFIC, GROUP OF PEOPLE, AT SPECIFIC TERMINALS (SOURCES), TO SUBMIT PRODUCTION JOBS.

(4) SUBMIT PRODUCTION JOBS THROUGH A SPECIFIC PROGRAM (PGM) STORED IN A HIGHLY CONTROLLED LIBRARY (ACCESSABLE ONLY BY THOSE AUTHORIZED TO SUBMIT PRODUCTION JOBS).

(5) RESTRICT ACCESS TO PRODUCTION DATA TO PRODUCTION LOGONIDS, AND POSSIBLY SPECIFIC PRODUCTION SUPPORT PERSONNEL (WITH LOGGING).

Revised: 07/30/83

SUMMARY OF ITEMS TO CONTROL WITH ACF2 CONTROL MECHANISMS

JCL LIBRARY	ACF2 RULE LINES
PARTITIONED DATA SET (PDS)	
° PROGRAMMER ACCESS	R(A) W(P) (LET ANYBODY READ IT)
° NEW JCL OR CHANGES	UID (SPECIFIC LIBRARIAN UIDS) R(A) W(L)
° SET UP FUNCTION	UID (SPECIFIC SETUP UIDS) R(A) W(A)

PROCEDURE LIBRARIES (A PDS)	ACF2 RULE LINES
° PROGRAMMER ACCESS	R(A) W(P)
° NEW PROCEDURES OR CHANGES	UID (SPECIFIC LIBRARIAN UID) R(A) W(L) LOG ALL CHANGES

PRODUCTION DATA FILES

ONLY PRODUCTION JOBS SHOULD ACCESS PRODUCTION DATA:

UID(PRODUCTION UID/LID) R(A) W(A) A(A)

BUT REALITY DICTATES THAT PRODUCTION SUPPORT MAY ALSO NEED ACCESS, BUT NOTE THE LOGGING:

UID(PRODUCTION SUPPORT UID/LID) R(A) W(L) A(L)

Revised: 07/30/83

CONSIDERATIONS UNIQUE TO PRODUCTION LOGONIDS

Difficulties maintaining integrity of passwords.

Alternatives to passwords.

Possible difficulty inserting Logonids into production JCL libraries.

Helpful to have "eye catchers" in Logonids for reports.

Revised: 07/30/83

ACF2 PRODUCTION CONTROL MECHANISMS: Special Logonid Fields

RESTRICT

- NO PASSWORD REQUIRED.
- CANNOT BE USED TO LOGON TO TSO.

PGM(program)

- THIS PRODUCTION LOGONID CAN ONLY BE SUBMITTED BY THIS PROGRAM.

SUBAUTH

- THE SUBMITTING PROGRAM MUST BE APF-AUTHORIZED.

SOURCE(terminal, reader, or group)

- THIS JOB USING THIS LOGONID SUBMITTED BY THIS PROGRAM MUST COME THROUGH THIS SOURCE OR GROUP OF SOURCES.

SHIFT(shift name)

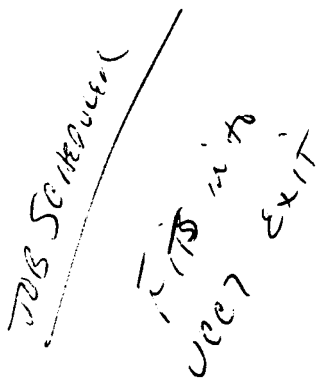
- THIS PRODUCTION LOGONID CAN ONLY BE SUBMITTED DURING CERTAIN TIMES OF DAY.

THUS, WE HAVE:

1) ELIMINATED PASSWORD
2) LIMITED SUBMITTING PROGRAM
3) LIMITED LIBRARY
4) LIMITED SOURCE
5) LIMITED TIME OF SUBMISSION

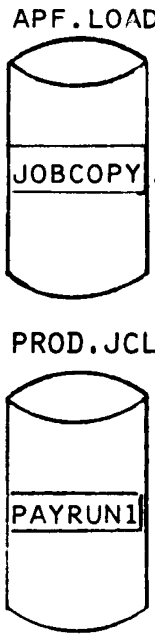
ACF2 PROVIDED PROGRAMS

- JOBCOPY
  - *BATCH*
  - *STC*
- ACFSUB
  - *TSO*
- SOURCE CODE IS PROVIDED.
  - ***Could be fit into scheduling packages.***



Revised: 07/30/83

JOBCOPY



- PRODUCTION JOB SUBMISSION.

  S JOBCOPY,JOB=PAYRUN1

- ACF2 VERIFIES PRODUCTION JCL LIBRARY.

  DOES JOBCOPY HAVE READ AUTHORITY TO LIB?

- JOBCOPY CONSTRUCTS LOGONID CARD FROM ACCOUNTING FIELD DATA ON JOB CARD.

  //PAYRUN1 JOB (PAY1)

  //*LOGONID #PAY1

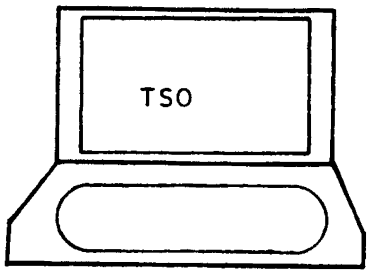
- JOBCOPY INSERTS LOGONID CARD AT THE END OF THE JCL JOBSTREAM.

- JOBCOPY SUBMITS JCL THRU THE INTERNAL READER

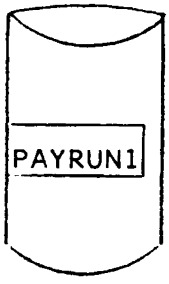
*LIBRARY PROTECTED BY ACF2

Revised: 07/30/83

ACFSUB



PROD.JCL.LIB*



- PRODUCTION JOB SUBMISSION VIA TSO READY

  ACFSUB PAYRUN1 LIB(AP)**

- ACF2 VERIFIES PRODUCTION JCL LIBRARY

  DOES THE TSO USER HAVE READ AUTHORITY TO LIB?

- ACFSUB CONSTRUCTS LOGONID CARD FROM ACCOUNTING DATA FIELD ON JOB CARD.

  //PAYRUN1 JOB (PAY1)

  //*LOGONID #PAY1

- ACFSUB INSERTS LOGONID CARD AT THE END OF THE JCL JOBSTREAM

- ACFSUB SUBMITS JCL THROUGH THE INTERNAL READER

* LIBRARY PROTECTED BY ACF2

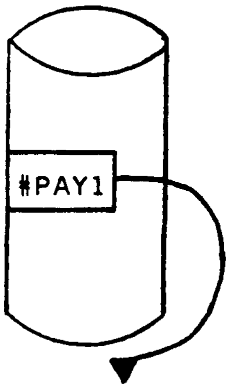
** REQUIRES 'OPERATOR' PRIVILEGE IN SUBMITTERS LOGONID

BY DEFAULT IS OPERATOR (ACF2) PRIVILEGE.

Revised: 07/30/83

JOBCOPY/ACFSUB

ACF2
LOGONID DATABASE



- ACF2 VERIFIES LOGONID DATABASE.

  IS THERE A LOGONID FOR #PAY1?

- ACF2 VERIFIES SUBMITTING PROGRAM IS APF AUTHORIZED

- ACF2 VERIFIES SUBMITTING PROGRAM NAME MATCHES PROGRAM SPECIFIED IN LOGONID

- ACF2 VERIFIES THE PROGRAM WAS SUBMITTED FROM A VALID SOURCE.

- ACF2 VERIFIES THE LOGONID IS BEING USED DURING A VALID SHIFT.

#PAY1 LOGONID HAS

    RESTRICT
    SUBAUTH
    PROGRAM (JOBCOPY) OR
    PROGRAM (ACFSUB)
    SOURCE(PRODSRC)
    SHIFT(PRODSFT)

LOGONID FOR #PAY1 WAS ADDED TO THE LOGONID DATABASE VIA THE INSERT COMMAND

INSERT #PAY1 RESTRICT SUBAUTH PROGRAM(ACFSUB) OR PROGRAM(JOBCOPY) SOURCE(PRODSRC) SHIFT(PRODSFT)

Must Be Installed in LID data Base.

SYS1. LINKLIB Can Be APF Authorized

Revised: 1/30/84

ACFRPTJL

RESTRICTED LOGONID JOB LOG

- PRODUCES A REPORT SHOWING ANY TIME A LOGONID WITH RESTRICT IS USED.

- INDICATES THE PATH OF SUBMISSION FOR JOBS USING A RESTRICTED LOGONID.

- GENERALLY THESE LOGONIDS ARE SUBMITTED VIA AN APF AUTHORIZED PROGRAM.

ACFRPTJL - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTJL - RESTRICTED LOGONID JOB LOG - PAGE   1
DATE 10/10/84 (84.284) TIME 08.05

    DATE     TIME  LID      JNAME      SUBMIT'R SOURCE    PROGRAM  CPU  LAB

84.283 10/09 19.09 #PAY1    PAYRUN1  S-JOBCOPY  STCINRDR *JOBCOPY  SKK1
84.283 10/09 19.24 NPD02    NPDJHSA             READER2             SKK1
84.282 10/08 11.36 CICS16B  SSDTATC  S-ACFSTCID STCINRDR  IEBGENER SKK1
84.282 10/08 11.29 TSSCICS  SSDTECC    SSDTEC   LV471    IKJEFF04 SKK1
```

* INDICATES APF AUTHORIZED LIBRARY

Revised: 10/10/84

PRODUCTION JOB CONTROL SUMMARY

. PRODUCTION JOBS REQUIRE:

LOGONID RECORDS
ACCESS TO PRODUCTION DATA

. CONTROL ACCESS TO:

PRODUCTION LOGONID RECORDS
PRODUCTION DATASETS
PRODUCTION PROGRAM LIBRARIES
PRODUCTION JCL LIBRARIES

. ACF2 PROVIDES:

DEFAULT PROTECTION
CONTROLLED SUBMISSION PATH

Revised: 07/30/83

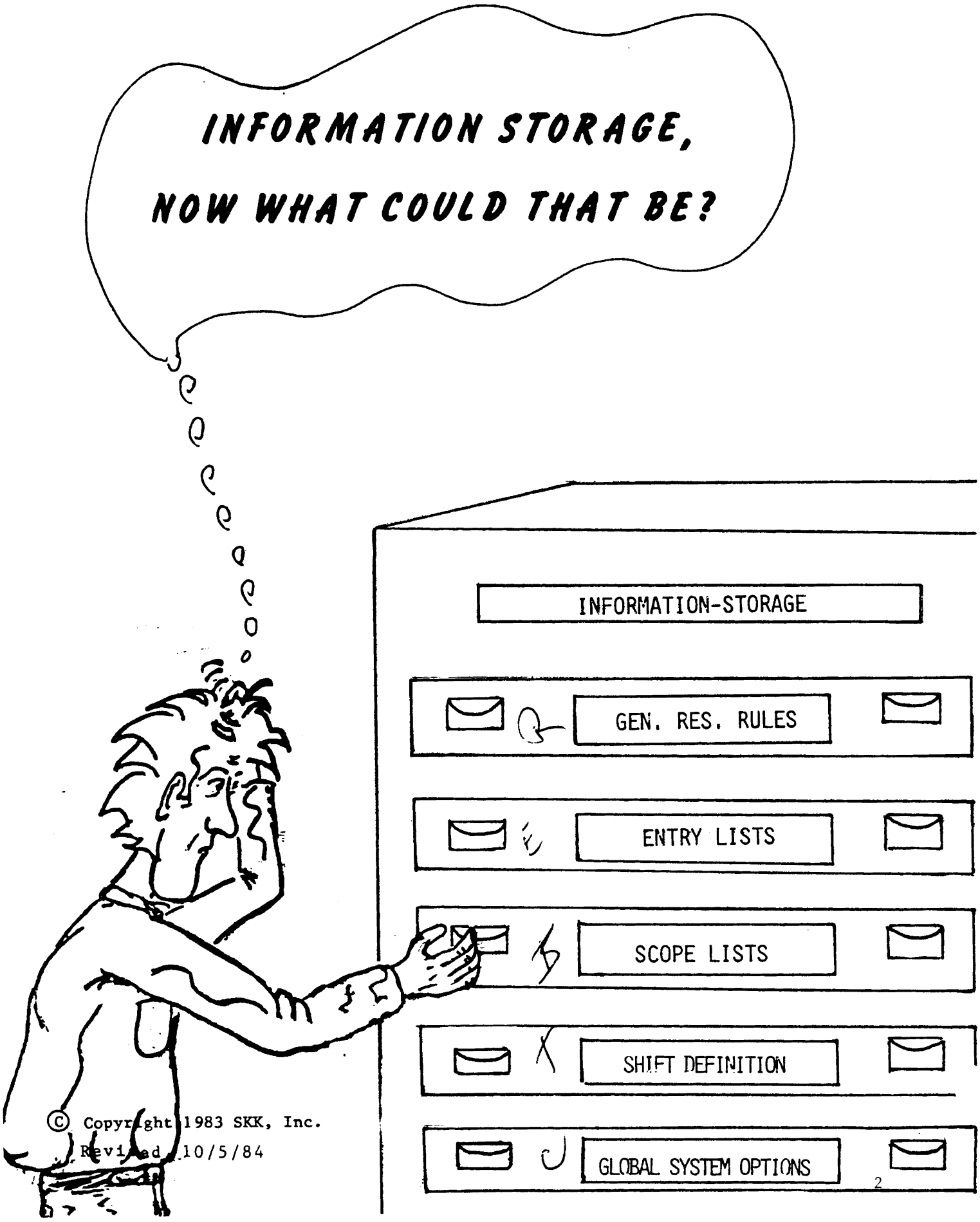
acf2

The Access Control Facility

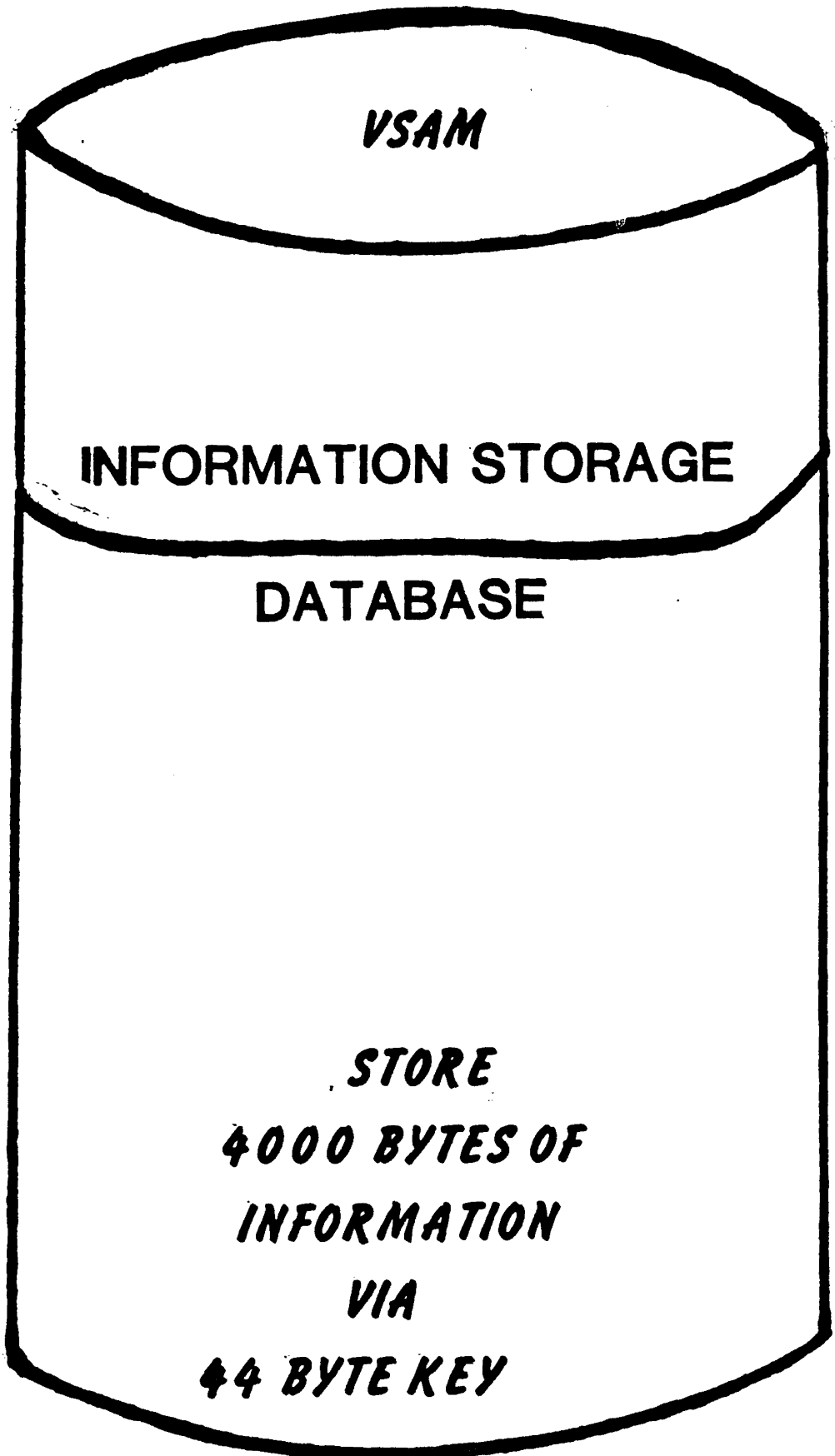
SESSION 5

MAINTAINING THE INFORMATION STORAGE DATABASE

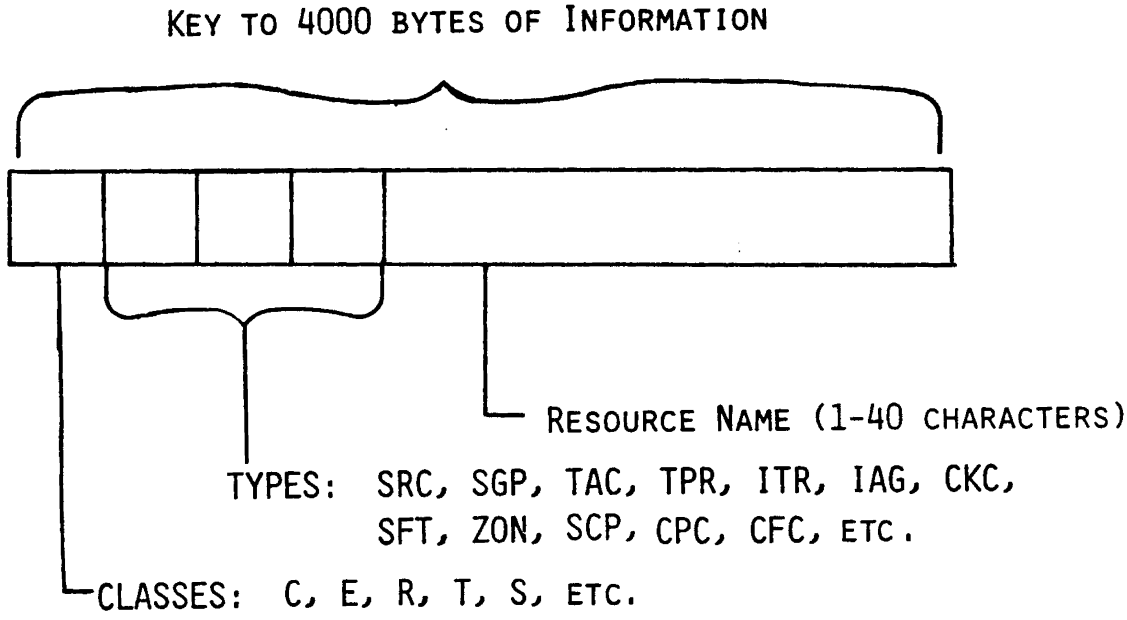
10/10/84



Revised 10/5/84



KEY TO RECORD ON INFORMATION STORAGE DATABASE



Revised: 10/5/84

GENERALIZED RESOURCE CONTROL

* GENERALIZED RESOURCE RULE SETS ARE USED BY ACF2 TO CONTROL ACCESS TO LOGICAL RESOURCES.

* THIS FACILITY ALLOWS FOR THE SPECIFICATIONS OF CONDITIONS UNDER WHICH AUTHORIZED USERS CAN USE:

  TSO ACCOUNT NUMBERS
  TSO PROCEDURE NAMES
  IMS RESOURCE PROTECTION
  CICS RESOURCE PROTECTION
  IDMS RESOURCE PORTECTION
  OTHER, LOCALLY DEFINED, RESOURCES

GENERALIZED RESOURCE RULE TYPE

* THERE ARE CURRENTLY NINE TYPES OF GENERALIZED RESOURCE RULES
  - PROVIDED WITH STANDARD ACF2 SYSTEM
    - TAC FOR TSO ACCOUNT NUMBERS
    - TPR FOR TSO PROCEDURE NAMES
  - PROVIDED WITH STANDARD ACF2 SYSTEM IF IMS, CICS OR IDMS INTERFACE IS INSTALLED
    - ITR FOR IMS TRANSACTIONS
    - IAG FOR IMS APPLICATION GROUP NAMES
    - CKC FOR CICS TERMINAL TRANSACTIONS
    - CPC FOR CICS PROGRAMS
    - CFC FOR CICS FILES
    - CTS FOR CICS TEMPORARY STORAGE
    - CTD FOR CICS TRANSIENT DATA
    - IDA FOR IDMS DATA AREAS
    - IPP FOR IDMS PROTECTED PROGRAMS
    - INP FOR IDMS NON-PROTECTED PROGRAMS
    - ISS FOR IDMS SUBSCHEMAS
    - ITK FOR IDMS TASKS
* FOLLOW SIMILAR CONDITIONS AS IN ACCESS RULE SETS

Revised: 10/17/84

RESOURCE RULE SETS

SPECIFY:

* RESOURCE NAME ($KEY FIELD)

* TYPE

* COMPILED LIKE PGMS

* INTERPRETATION FROM SPECIFIC TO GENERAL ENVIRONMENT

* PERMISSION SELECTED BASED ON MATCHED ENVIRONMENT

RESOURCE RULE SET FORMAT

$KEY(name-mask) TYPE(type)

$USERDATA(.....)

$NOSORT

%CHANGE UID1 UID2 UID3

UID(uid-mask) SOURCE(source-name) -
DATA(data) SHIFT(shift-name) -
UNTIL(mm/dd/yy) / FOR(days) -
SERVICE(read,add,update,delete) -

THE ENVIRONMENT

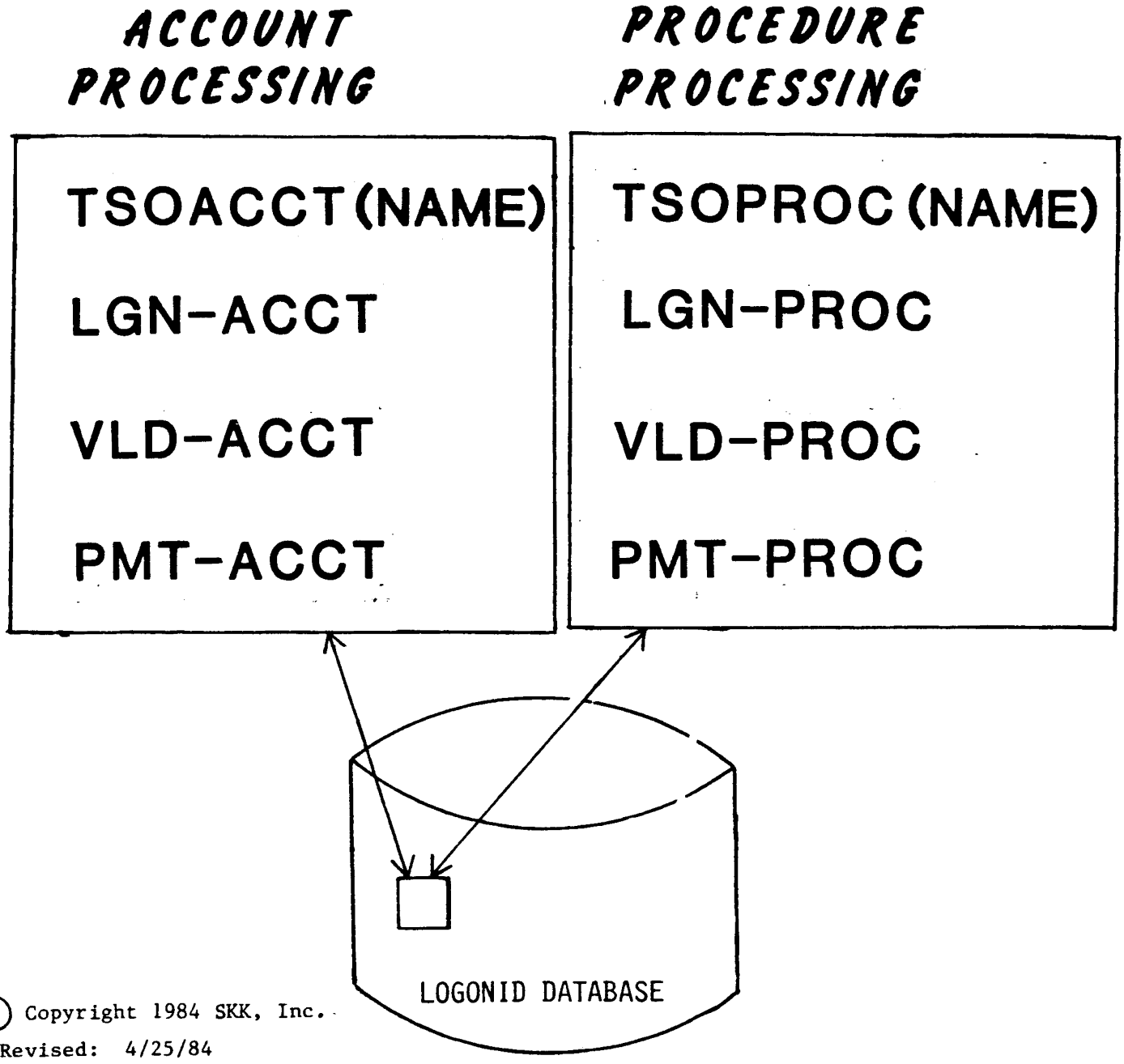
VERIFY ALLOW / LOG / PREVENT

THE ACCESS PERMISSIONS

Revised: 4/25/84

TSO ACCT & PROC VALIDATION

* CONTROL USAGE & VALIDATION VIA FOUR FIELDS IN LOGONID RECORD



Revised: 4/25/84

EXAMPLE :

```
$KEY(CC9***) TYPE(TAC)
%CHANGE DPO
  UID(DPT) SOURCE(LEGAL1) ALLOW -
  UNTIL(09/10/83)
```

```
$KEY(TSOTST)  TYPE (TPR)
%CHANGE  ACC
  UID(ACC) SOURCE(FINANCE) -
  FOR(15) ALLOW
```

IMS TRANSACTION RULE EXAMPLE

```
$KEY(UAR***) TYPE(ITR)
%CHANGE CDSDDBA****
* ALLOW CLERKS TO UPDATE
  UID(*AARIIC) ALLOW
* ALLOW DBA TO UPDATE BUT VERIFY PSWD & LOG
  UID(CDSDDBA) VERIFY LOG
* TEMPORARILY LOG UPDATES OF NEW CLERK
  UID(*AARIICIPPP) FOR(90) LOG
* RESTRICT ENTRY TO ACCTG TERMINAL
  UID(*AAPIIC) SOURCE(ACCTDEPT) LOG
```

CICS TRANSACTION RULE EXAMPLE

```
$KEY(PA**) TYPE(CKC)
* ALLOW ACCOUNTS PAYABLE CLERKS TO UPDATE
  UID(*AAPCLK) SOURCE(PAYTRMNL) ALLOW
* TEMPORARILY LOG UPDATE OF NON-AP CLERKS
  UID(*A**CLK) UNTIL(11/01/83) LOG
* LOG UPDATES BY NON-ACCT CLERKS AND VERIFY PSWD
  UID(****CLK) VERIFY LOG
```

CICS PROGRAM RULE EXAMPLE

```
$KEY(PAP***) TYPE(CPC)
* ALLOW ACCOUNTS PAYABLE CLERKS TO USE PRODUCTION PROGRAMS
  UID(*AAPCLK) ALLOW
* LOG NON-ACCT CLERKS
  UID(****CLK) LOG
```

CICS FILE RULE EXAMPLE

```
$KEY(APMSTR) TYPE(CFC)
* LOG ALL UPDATES TO ACCT-PAYABLE MASTER
  UID(**AP***) SERVICE(UPDATE) LOG
* ALLOW READS OF MASTER FILE
  UID(-) SERVICE(READ) ALLOW
* ALLOW ACCT SUPERVISOR FULL AUTHORITY
  UID(*AAPSUP) SERVICE(READ,ADD,UPDATE,DELETE) ALLOW
```

Revised: 10/22/84

SAMPLE IDMS PROGRAM RULES

```
$KEY(ARD*****) TYPE(IPP)
*ALLOW AP MANAGERS TO EXECUTE THESE DURING "NORMAL" HOURS
 UID(APM) ALLOW SHIFT(NORMAL)
*ALLOW AR CLERKS TO EXECUTE THESE DURING "NORMAL" HOURS
 UID(ARC) ALLOW SHIFT(NORMAL)
*ALLOW AR MANAGERS TO EXECUTE THESE ANYTIME
 UID(ARM) ALLOW
```

SAMPLE IDMS TASK RULES

```
$KEY(IAR****) TYPE(ITK)
*ALLOW AP MANAGERS TO EXECUTE THESE DURING "NORMAL" HOURS
 UID(APM) ALLOW SHIFT(NORMAL)
*ALLOW AR CLERKS TO EXECUTE THESE DURING "NORMAL" HOURS
 UID(ARC) ALLOW SHIFT(NORMAL)
*ALLOW AR MANAGERS TO EXECUTE THESE ANYTIME
 UID(ARM) ALLOW
```


Revised: 10/17/84

SAMPLE IDMS AREA RULES

SERVICE keyword access levels

- *UPDATE* = *Modify and/or Delete*
- *READ* = *Examine (read) only*
- *ADD*
- *DELETE*

} *Not used in ACF2/IDMS*

If SERVICE is not specified, the default is UPDATE and READ (all match)

```
$KEY(ARA****) TYPE(IDA)
*ALLOW AP CLERKS AND MANAGERS TO READ THESE DURING "NORMAL" HOURS
 UID(AP*) ALLOW SHIFT(NORMAL) SERVICE(READ)
*ALLOW AR MANAGERS TO UPDATE AND READ THESE DURING "NORMAL" HOURS
 UID(ARM) ALLOW SHIFT(NORMAL)
*ALLOW AR CLERKS TO UPDATE AND READ THESE DURING "NORMAL" HOURS
 UID(ARC) ALLOW SHIFT(NORMAL)
*ALLOW AR MANAGERS TO READ THESE ANYTIME BUT LOG THE ACCESS
 UID(ARM) LOG SERVICE(READ)
```

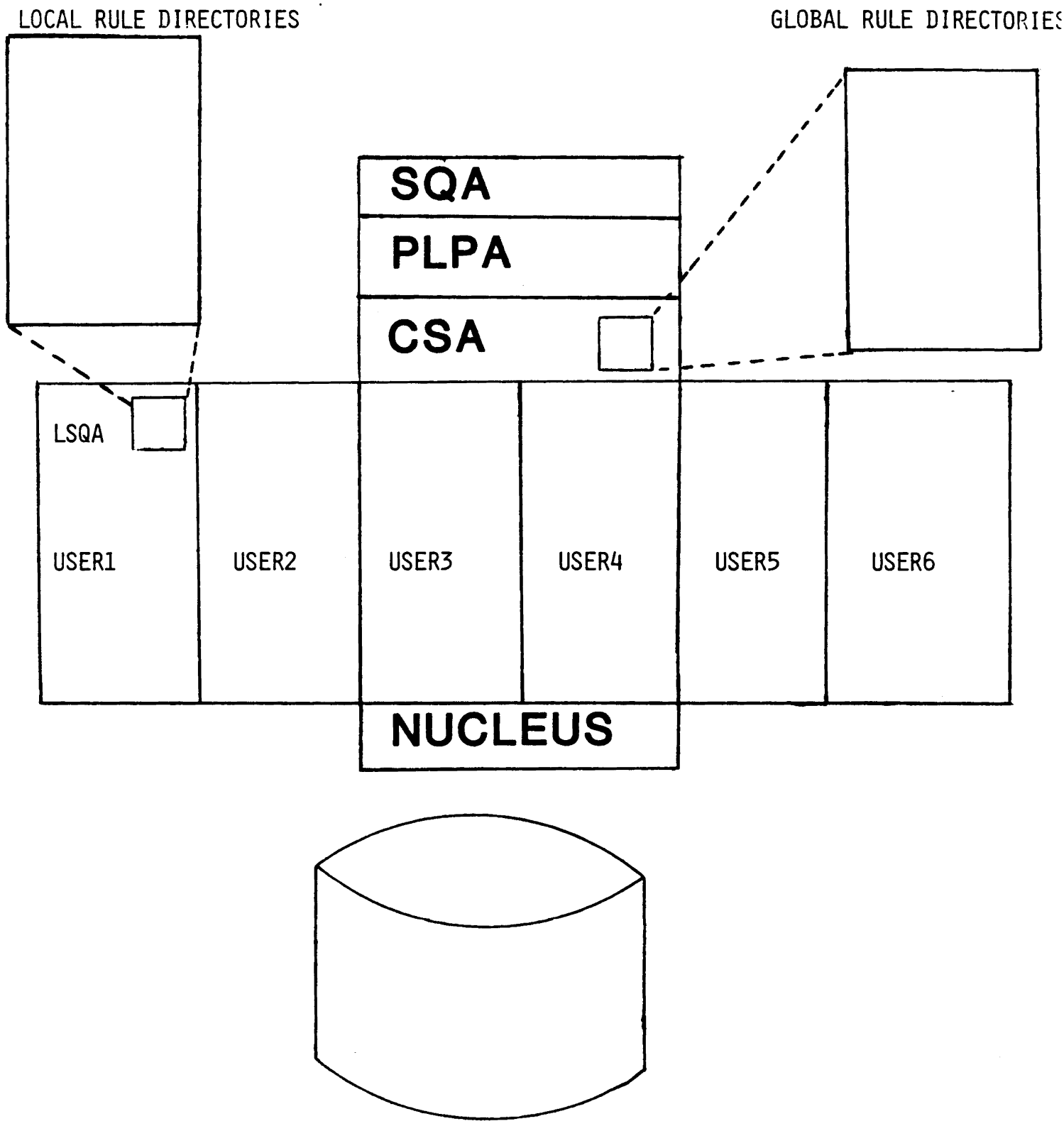

Revised: 10/17/84

RESOURCE DIRECTORIES

- DIRECTORY IS BUILT FOR A SPECIFIC RESOURCE TYPE
- CONTAINS ONE ENTRY PER RESOURCE RULE SET WITHIN THE TYPE
- CONTAINS POINTER TO RESOURCE RULE SET
- CAN BE LOCALLY (LSQA) OR GLOBALLY (CSA) RESIDENT

Revised: 5/7/84

RESOURCE RULE DIRECTORIES



INFORMATION STORAGE DATABASE

BUILDING DIRECTORIES

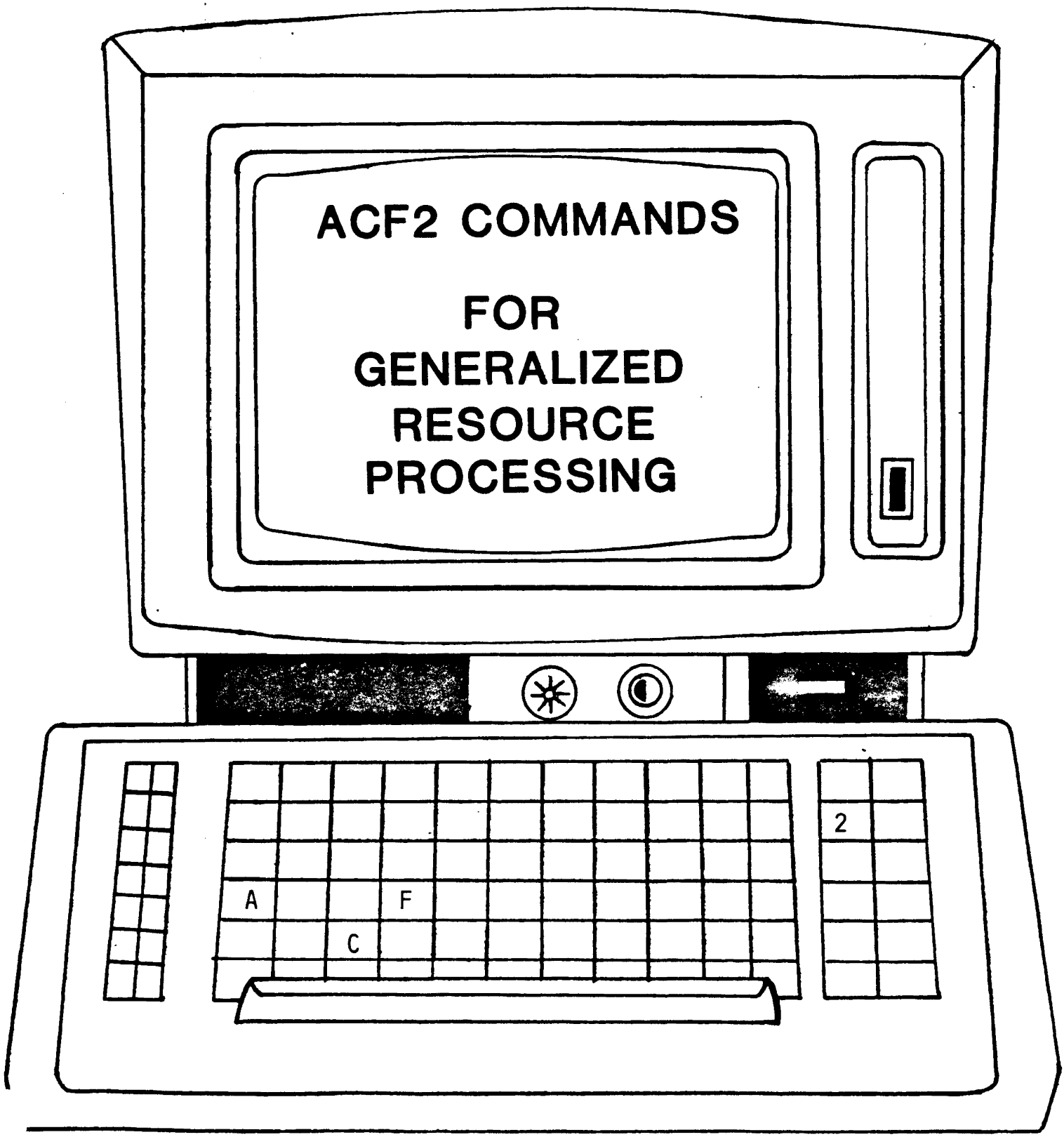
TYPES	*BUILT*	*REBUILT*
RESDIR	ACF2 Initialization	F ACF2,REBUILD
IMS	IMS Start-up	IMS "RELOAD" Transaction
CICS	CICS Start-up	CICS Reload (ACFM) Transaction

Revised: 10/10/84

RESOURCE RULE DIRECTORIES

TYPES OF GLOBALLY RESIDENT DIRECTORIES (RESDIR)

RESIDENT	**RESDIR Types(R XXX)**	RULE ALWAYS RESIDENT IN SYSTEM. (SYSTEM WIDE)
DEMAND	**RESDIR Types(D XXX)**	RULE ALWAYS RESIDENT AFTER REQUEST FOR RESOURCE.
TRANSIENT	**RESDIR Types(T XXX)**	RULE NEVER RESIDENT



ACF2 COMMANDS UNDER TSO READY MODE

. ACFCOMP */dsname LIST/NOLIST
MAXRULE(nnn) ALL

. ACFNRULE KEY(key) TYPE(type)
ADD(rule text) DELETE(char.string)
LIST/NOLIST VERIFY/NOVERIFY

ACF2 SUBCOMMANDS UNDER RESOURCE MODE

SET RESOURCE(TYPE)

- COMPILE [*/DSN] [LIST/NOLIST] MAXRULE(NNN) ALL
- DECOMP/LIST [*/RULE-ID/LIKE(RULE-MASK)] INTO(DSN)
- STORE - STORES A COMPILED SET OF RULES
- DELETE [*/RULE-ID]
- TEST [*/RULE-ID]

Revised: 2/21/83

ENTRY LISTS

- ACF2 USES ENTRY LIST RECORDS TO ACCOMPLISH INPUT SOURCE VALIDATION.

- BY USING ENTRY LISTS YOU CAN CONTROL THE:

  - USER'S POINT OF ENTRY INTO THE SYSTEM
  - PATH WHICH A DATASET CAN BE ACCESSED
  - PATH WHICH YOUR RESOURCES CAN BE ACCESSED

Revised: 5/7/84

TYPES OF ENTRY LISTS

THERE ARE TWO TYPES OF ENTRY LISTS

. SRC - FOR SINGLE SOURCE IDENTIFIERS.

. SGP - FOR GROUPS OF SOURCE IDENTIFIERS.

• *SOURCE IDENTIFIERS CAN BE PHYSICAL OR LOGICAL*

PHYSICAL SOURCE IDENTIFIERS CAN BE:

JES SOURCE NAMES

HASP SOURCE NAMES

VTAM NODE NAMES

BTAM SOURCE NAMES

TCAM SOURCE NAMES

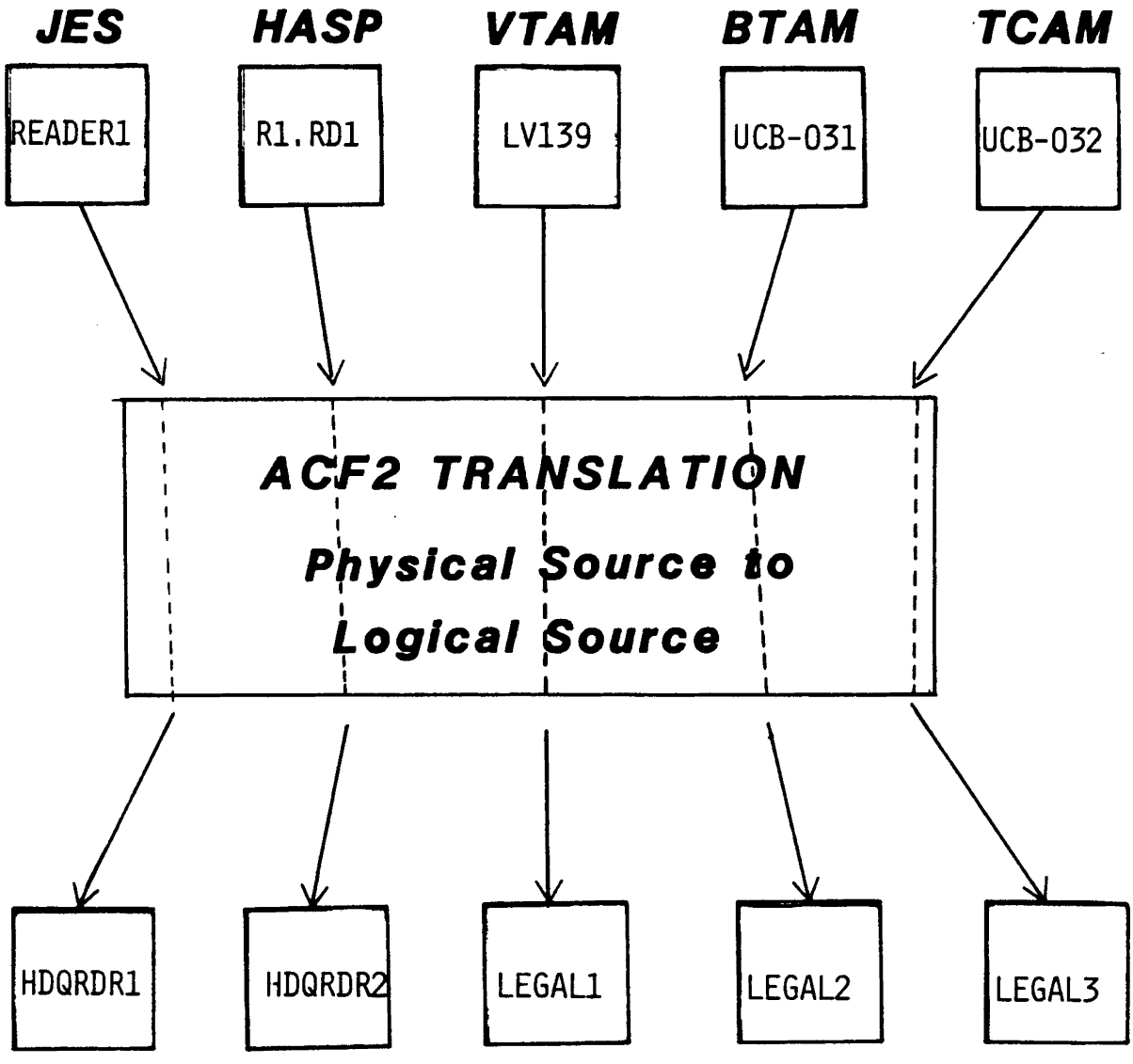
LOGICAL SOURCE IDENTIFIERS ARE:

NAMES YOU ASSOCIATE TO PHYSICAL SOURCE IDENTIFIERS.

Revised: 5/7/84

SOURCE NAMES

•PHYSICAL SOURCE IDENTIFIERS



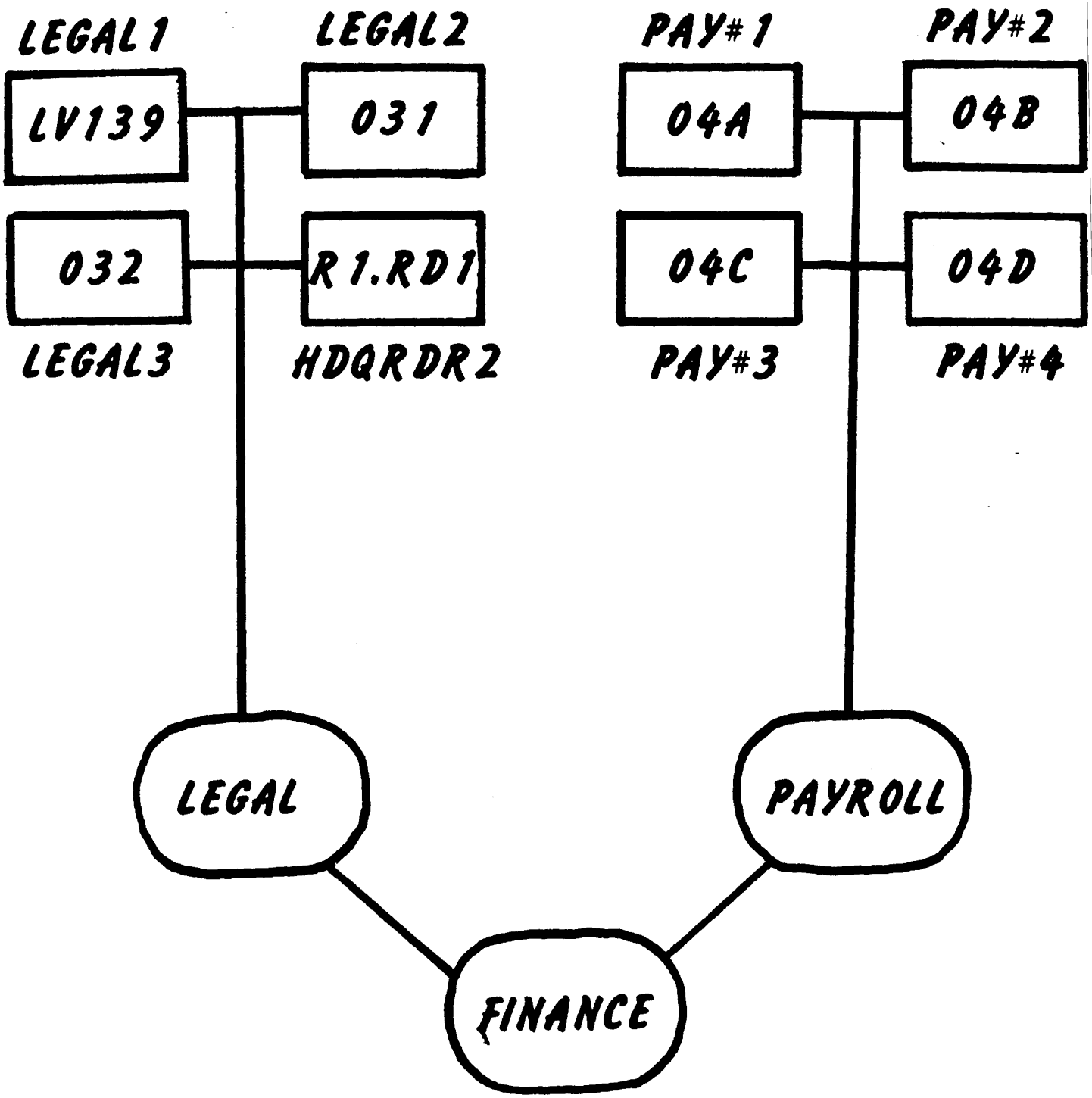
•LOGICAL SOURCE IDENTIFIERS

Revised: 4/25/84

PHYSICAL TO LOGICAL SOURCE TRANSLATION

```
ACF

SET ENTRY(SRC)

INSERT LV139 NEWDATA(LEGAL1)

INSERT UCB-031 NEWDATA(LEGAL2)

INSERT UCB-032 NEWDATA(LEGAL3)

INSERT R1.RD1 NEWDATA(HDQRDR2)

INSERT UCB-04A NEWDATA(PAY#1)

INSERT UCB-04B NEWDATA(PAY#2)

INSERT UCB-04C NEWDATA(PAY#3)

INSERT UCB-04D  NEWDATA(PAY#4)
```


Revised: 7/25/83



SOURCE GROUPS

SOURCE IDENTIFIERS MAY BE COMBINED INTO SOURCE GROUPS.

```
ACF
SET ENTRY(SGP)
INSERT LEGAL NEWDATA(LEGAL1)
CHANGE LEGAL NEWDATA(LEGAL2)
CHANGE LEGAL NEWDATA(LEGAL3)
CHANGE LEGAL NEWDATA(HDQRDR2) DSNAME(SOURCE.LEGAL)
```

ACCESS RULE DEFINING OWNERSHIP:

```
$KEY(SOURCE)
LEGAL UID(CDOP) R(A) W(A)
```

SOURCE GROUPS MAY BE COMBINED INTO LARGER GROUPS.

```
ACF
SET ENTRY(SGP)
INSERT FINANCE NEWDATA(LEGAL)
CHANGE FINANCE NEWDATA(PAYROLL)
```

MAY BE BUILT DYNAMICALLY VIA:

```
F ACF2,NEWXREF
```


Revised: 7/25/83

ACF2 SUBCOMMANDS UNDER ENTRY MODE

SET ENTRY(SRC)
SET ENTRY(SGP)

- INSERT [USING(ENTRY-ID) TYPE(TYPE)] ENTRY-ID NEWDATA(DATA) -
  DSN(DSN) CLEAR

- CHANGE [*/ENTRY-ID/LIKE(ENTRY-ID-MASK)] [OLDDATA(DATA)/VERDATA(DATA)] -
  NEWDATA(DATA) DSN(DSN) CLEAR

- DELETE [*/ENTRY-ID/LIKE(ENTRY-ID-MASK)]

- LIST [*/ENTRY-ID/LIKE(ENTRY-ID-MASK)]

SCOPE LISTS

- Provide a user control over ACF2 records:
  - *Dataset Access Rule Masks*
  - *Information Storage Key Masks*
  - *Logonid Masks*
  - *UID Masks*

- Capabilities:
  - *Multiple Scopes*
  - *Information Storage Scopes*

- Definitions:
  - *Restricted vs. Unrestricted*
  - *Default when not defined*

Revised: 5/7/84

SCOPE LIST LOGIC FLOW

CHECK SCOPE LIST

- If There Is A Value In SCPLIST:
  - *User is "restricted"*
  - *LID/UID/DSNSCOPES are not looked at in LIDREC*
- If NO SCPLIST Is Specified:
  - *Look for other scope fields*
  - *Use old restricted and unrestricted definitions*

Revised: 5/7/84

SCOPE DEFINITIONS

WITHOUT SCPLIST SPECIFIED

- **SECURITY WITH**

  LIDSCOPE(ABC-)

- **RESULT:**

  - "UNRESTRICTED" SECURITY OFFICER
  - CAN ACCESS ANY LID BEGINNING WITH ABC.
  - CAN CREATE/MODIFY/LIST/DELETE ANY INFO STORAGE RECORD OR ACCESS RULE

WITH SCPLIST SPECIFIED

- **SECURITY WITH**

  SCPLIST(LIST#1)

  WHERE LIST#1 INCLUDES

  LID(ABC-) ONLY

- **RESULT:**

  - "RESTRICTED" SECURITY OFFICER
  - CANNOT ACCESS ANY LID'S
  - CANNOT CREATE/ETC. ANY ACCESS RULES OR INFO STORAGE RECORDS

Revised: 4/25/84

HOW ARE SCOPE LISTS CREATED?

. STORED UNDER A RECORD TYPE OF (SCP)

. SCOPE-LIST-NAME MAY BE FROM ONE TO EIGHT CHARACTERS.

. FOUR TYPES OF SCOPE ENTRIES, EACH MAY BE A LIST:

DSN - ACCESS RULE KEYS
INF - INFOSTORAGE DATABASE KEYS
LID - LOGONID RECORD KEYS (USING LID)
UID - LOGONID RECORD KEYS (USING UID)

. EXAMPLE:

```
SET SCOPE(SCP)
INSERT PAYSCOPE  DSN(PAYPROD,PAYTEST) -
                 INF(RCKCPAYT,RIAGPAYUPD) -
                 LID(PAY-) -
                 UID(FINMGR-)
```

. IN LOGONID RECORD OF PAY MANAGER:

```
SECURITY SCPLIST(PAYSCOPE)
```

SUBCOMMANDS UNDER SCOPE MODE

SET SCOPE(SCP)

- INSERT SCOPE-NAME [DSN(DSNSCOPE1,...,DSNSCOPEN)]
  [INF(INFSCOPE1,...,INFSCOPEN)] -
  [LID(LIDSCOPE1,...,LIDSCOPEN)] -
  [UID(UIDSCOPE1,...,UIDSCOPEN)]

- LIST [*/SCOPE-NAME/LIKE(SCOPE-NAME-MASK)] -
  [ALL,DSN,INF,LID,UID]

- CHANGE [*/SCOPE-NAME/LIKE(SCOPE-NAME-MASK)] -
  [ADD,DEL,REP] [DSN(DSNSCOPE1,...,DSNSCOPEN)] -
  [INF(INFSCOPE1,...,INFSCOPEN)] -
  [LID(LIDSCOPE1,...,LIDSCOPEN)] -
  [UID(UIDSCOPE1,...,UIDSCOPEN)]

- DELETE [*/SCOPE-NAME/LIKE(SCOPE-NAME-MASK)]

TIME/DATE/SHIFT CONTROL OF SYSTEM ACCESS

- Allows a company to define when a user may access the system -

SHIFT WILL BE CHECKED IN THE LOGONID RECORD AT IMS OR CICS SIGNON, BATCH JOB SUBMISSION, STC INITIATION AND TSO LOGON, WHEN SHIFT(SHIFT-NAME) IS SPECIFIED IN THE LOGONID RECORD.

Logonid fields are:

- SHIFT(shift-name)
  - ***Name of SHIFT record defined in INFORMATION STORAGE DATABASE.***

- ZONE(zone-name)
  - ***Name of ZONE record defined in INFORMATION STORAGE DATABASE.***

- LOGSHIFT
  - ***Privilege field indicating user may access the system outside of his/her SHIFT.***

Revised: 10/10/84

TIME/DATE/SHIFT CONTROL OF ACCESS TO RESOURCES

ALLOWS A COMPANY TO DEFINE UNDER WHAT DATE/TIME CONDITIONS CERTAIN RESOURCES MAY BE UTILIZED.

SHIFT(SHIFT-NAME) MAY BE SPECIFIED IN ACCESS RULES AND RESOURCE RULES.

For Example:

$KEY(PAYTRAN) TYPE(ITR)

UID(PAY-) SHIFT(NORMAL) ALLOW

UID(PAY-) LOG

WOULD ALLOW ALL USERS WITH A UID STRING BEGINNING 'PAY' TO ISSUE THE IMS TRANSACTION PAYTRAN AT ANY TIME, BUT USE OUTSIDE OF 'NORMAL' SHIFT WILL BE LOGGED.

Revised: 7/25/83

SHIFT AND ZONE RECORD

- SHIFT RECORDS
  - . CREATED UNDER A TYPE CODE OF (SFT)
  - . MAY BE FROM 1-8 CHARACTERS IN LENGTH
  - . EXAMPLE SHIFT RECORD CREATION:

```
SET SHIFT(SFT)
INSERT NORMAL DAYS(MO,TU,WE,TH,FR)    -
                TIME(0900-1700),NTIME(1200-1300)  -
                INCLUDE (HOLIDAYS)
INSERT HOLIDAYS NDAYS(01/01/83,07/04/83,12/25/83)
```

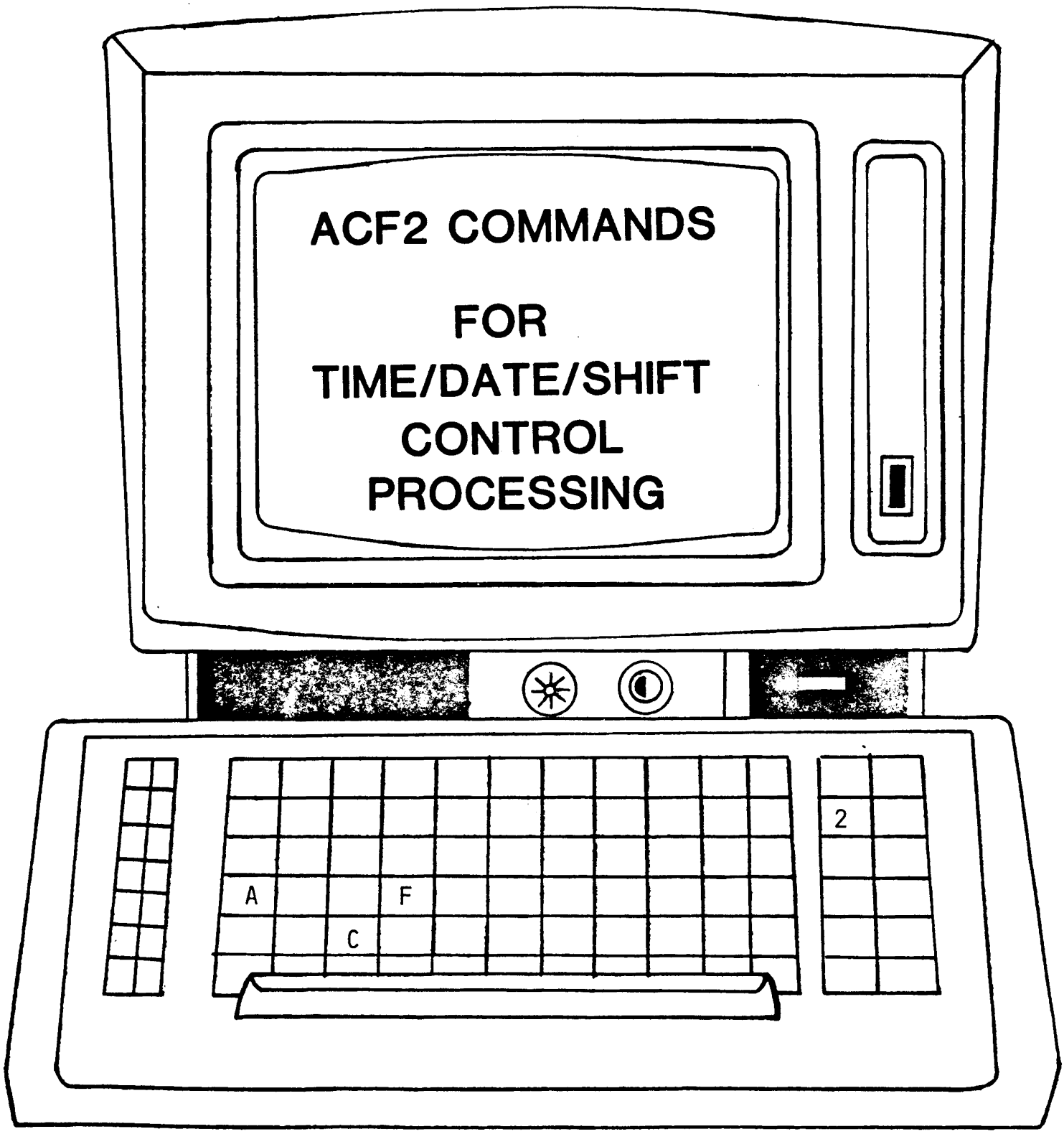
- ZONE RECORDS
  - . CREATED UNDER A TYPE CODE OF (ZON)
  - . MAY BE FROM 1-3 CHARACTERS IN LENGTH
  - . EXAMPLE ZONE RECORD CREATION:

```
SET SHIFT(ZON)
INSERT EST ADJUST(+0100)
INSERT PST ADJUST(-0200)
```

- MAY BE BUILT DYNAMICALLY VIA:

  F ACF2,NEWSHIFT

Revised: 5/7/84



ACF2 SUBCOMMANDS UNDER SHIFT MODE

SET SHIFT(SFT)
SET SHIFT(ZON)

. INSERT [*/SHIFT-NAME] [DAYS([MO,TU,WE,TH,FR,SA,SU,M1/D1/Y1,...,
MN/DN/YN])] -

[NDAYS([SAME-AS-FOR-DAYS])] -

[TIME(H1M1-H2M2,...,HNMN-HMMM)] -

[NTIME(SAME-AS-FOR-TIME)] -

[INCLUDE(SHIFT-NAME1,...,SHIFT-NAMEN)]

. LIST [*/SHIFT-NAME/LIKE(SHIFT-NAME-MASK)]

. CHANGE [*/SHIFT-NAME/LIKE(SHIFT-NAME-MASK)] -

[DAYS/NDAYS/TIME/NTIME/INCLUDE-AS-ABOVE]

. DELETE [*/SHIFT-NAME/LIKE(SHIFT-NAME-MASK)]

FOR ZONE RECORDS:

INSERT [*/ZONE-NAME] ADJUST(±HHMM)

LIST [*/ZONE-NAME/LIKE(ZONE-NAME-MASK)]

CHANGE [*/ZONE-NAME/LIKE(ZONE-NAME-MASK)] ADJUST(±HHMM)

DELETE [*/ZONE-NAME/LIKE(ZONE-NAME-MASK)]

ACF2 BATCH REPORTS FOR INFORMATION STORAGE

Revised: 7/25/83

ACFRPTRV
GENERALIZED RESOURCE LOG

. JOURNALS INFORMATION BASED UPON RESULTS OF RESOURCE VALIDATION REQUESTS.

. REPORT DESCRIBES:
  - TYPE OF RESOURCE REQUESTED
  - USER REQUESTING ACCESS
  - FINAL DISPOSITION OF ACCESS

. THREE SEPARATE TYPES OF RESOURCE EVENTS:
  - LOGGINGS
  - VIOLATIONS
  - TRACE REQUESTS

ACFRPTRV - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   1
DATE 10/10/84 (84.284) TIME 14.31 SKK INC.

REQUESTED RESOURCE                                          LOOKUP KEY
UID                        SOURCE   CPU  MODULE   DISP     DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME     LID       NAME                 PRE RMC INT PST FIN

R-CKC-CEDA                                              LOG  R-CKC-CEDA
SHSC9SSDTAT  0111        LV445     SKK1 ACF04RSI NO-REC   NON-CNCL     -
84.282 10/08 12.45 SSDTECC  SSDTAT    TIM TRANTER             0   8    0   0   4

R-CPC-SIGNPGM                                           *VIO  R-CPC-SIGNPGM
SHD99DFTCICS 0000        *DEFAULT SKK1 ACF04RSI NO-REC       -          -
84.282 10/08 12.46 SSDTECC  DFTCICS  DFLT LID - TERMINAL     0   8    0   0  16

R-CKC-DMSG                                              *VIO  R-CKC-DMSG
SHD99ATICICS 0000        *DEFAULT SKK1 ACF04RSI NO-RULE      -       DIRECTRY
84.282 10/08 12.46 SSDTECC  ATICICS  ATI DEFAULT ID, JHS     0   0   20   0  16

R-CKC-CONS                                              LOG  R-CKC-CONS
SHSC9SSDTAT  0111        LV445     SKK1 ACF04RSI NO-REC   NON-CNCL     -
84.282 10/08 12.47 SSDTECC  SSDTAT    TIM TRANTER             0   8    0   0   4

R-CKC-CORE                                              LOG  R-CKC-CORE
SHSC9SSDTAT  0111        LV445     SKK1 ACF04RSI NO-REC   NON-CNCL     -
84.282 10/08 12.48 SSDTECC  SSDTAT    TIM TRANTER             0   8    0   0   4

R-CKC-VTAM                                              *VIO  R-CKC-VTAM
SHD99DFTCICS 0000        *DEFAULT SKK1 ACF04RSI NO-REC       -          -
84.282 10/08 12.48 SSDTECC  DFTCICS  DFLT LID - TERMINAL     0   8    0   0  16

R-CKC-ADSL                                              *VIO  R-CKC-ADSL
SHD99DFTCICS 0000        *DEFAULT SKK1 ACF04RSI NO-REC       -          -
84.282 10/08 13.48 SSDTECC  DFTCICS  DFLT LID - TERMINAL     0   8    0   0  16
```


Revised: 10/16/84

ACFRPTEL

INFORMATION STORAGE UPDATE LOG

. USES ACF2 SMF RECORDS ISSUED FOR RECOVERY PURPOSES TO PROVIDE AN UPDATE ACTIVITY REPORT FOR ACF2'S INFORMATION STORAGE DATABASE.

. PRODUCES ONE RECORD EACH TIME SOMEONE CHANGES THE INFORMATION STORAGE DATABASE.

ACFRPTEL - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTEL - INFORMATION STORAGE UPDATE LOG - PAGE    1
DATE 10/10/84 (84.284) TIME 08.05 DETAIL,TYPE(SFT)
    DATE     TIME  JNAME    LID       MODULE   FUNCTION CPU  C-TYP-NAME
    FIELD       OLD VALUE                 NEW VALUE

84.282 10/08 10:32 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDDPB1

84.282 10/08 10:32 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDTH

84.282 10/08 10:32 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDTHZ

84.282 10/08 10:33 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDDPB1

84.282 10/08 10:33 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDTH

84.282 10/08 10:33 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDTHZ

84.282 10/08 10:33 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDDPB1

84.282 10/08 10:33 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDTH

84.282 10/08 10:33 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDTHZ

84.282 10/08 12:43 SSDTHA   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDDPB1

84.282 10/08 12:44 SSDTHA   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-SSDDPB1

84.282 10/08 14:27 SSDTH1   SSDTH1    ACFOAENT REPLACE  SKK1 T-SFT-ABCDAY
```


Revised: 10/10/84

INFORMATION STORAGE SUMMARY

SEVERAL TYPES OF INFORMATION STORAGE RECORDS CAN BE USED TO CONTROL:

- POINT OF ENTRY INTO THE SYSTEM

  ENTRY TYPES

  SRC INPUT SOURCE NAMES

  SGP INPUT SOURCE GROUPS

- VARIOUS SYSTEM RESOURCES

  RESOURCE TYPES

  TAC TSO ACCOUNT NUMBERS

  TPR TSO PROCEDURE NAMES

  IAG IMS APPLICATION GROUP NAMES*

  ITR IMS TRANSACTIONS*

  CKC CICS TERMINAL TRANSACTIONS*

  CPC CICS PROGRAMS*

  CFC CICS FILES*

  DAT IDMS DATA AREAS*

  PGM IDMS PROTECTED PROGRAMS*

  PGN IDMS NON-PROTECTED PGMS*

  SSC IDMS SUBSCHEMAS*

  TSK IDMS TASKS*

  *THESE REQUIRE THAT THE INTERFACE BE IN PLACE BEFORE VALIDATION WILL TAKE PLACE.

- SCOPES OF USERS

  SCOPE TYPES

  SCP SCOPE LIST NAMES

- WORKING DAYS AND HOURS OF USERS

  SHIFT TYPES

  SFT TIME SHIFT RECORDS

  ZON TIME ZONE DEFINITION

ACF2 ALSO ALLOWS USERS TO DEFINE THEIR OWN TYPES OF RECORDS.

acf2

The Access Control Facility

SESSION 6

SYSTEM OPTIONS

Revised: 10/10/84

ACF2 CONTROL RECORDS

- Information Storage Record class "C"
- "Global System Options" - GSO
- Used to Customize ACF2
- Can be dynamically modified
- Controlled by "Security Officer"

Revised: 10/5/84

ACF2 CONTROL RECORDS

SPECIFY:

Password Management

Global TSO defaults

Security Boundaries

Local Exits

Central vs. Decentral Administration

Auditing and Logging Controls

Operational and Performance Options

Revised: 10/5/84

PASSWORD MANAGEMENT

PSWD RECORD

- WRNDAYS(1/nnn)
  Password expiration warning message

- MAXTRY(1/nnn)
  Maximum attempts per logon

- PASSLMT(2/nnnnn)
  Number of password violations allowed

- MINPSWD(1/n)
  Minimum password authorization

- PSWDALT/NOPSWDALT
  New password authorization

- PSWDJES/NOPSWDJES
  JES violations to be counted

- PSWDFRC/NOPSWDFRC
  User must alter assigned password

- ENCRYPT(R221/XDES)
  Password encryption method

Revised: 10/5/84

SYSTEM ACCESS CONSIDERATIONS

OPTS RECORD

- UADS/NOUADS
  Use UADS for logon validation

- STC/NOSTC
  Started task validation

- DFTLSTC(ACFSTCID/logonid)
  Started task default logonid

- DFTLID(default-logonid)
  Batch job default logonid

- JOBCK/NOJOBCK
  Job authorization verified

- NOTIFY/NONOTIFY
  Display last logon

SYSTEM ACCESS CONSIDERATIONS

TSO RECORD

- LOGONCK/NOLOGONCK

  TSO logon authorization verified

- QLOGON/NOQLOGON

  TSO quick logon allowed

- WAITIME(NO/nnn)

  TSO logon completion time

- FSRETAIN/NOFSRETAIN

  Retain Full Screen information

Revised: 10/10/84

SECURITY BOUNDARIES

DASD & MSS

. RESVOLS VOLMASK(******/volmask1,
volmask2,...,volmaskn)

- *Volumes protected at the dataset name level*

. SECVOLS VOLMASK(volmask1,volmask2,...,
volmaskn)

- *Volumes protected at the volume level*

ACF2 LOGIC

1) IS VOLUME IN RESVOLS?

YES - Protect at dataset name level

NO - Check SECVOLS

2) IS VOLUME IN SECVOLS?

YES - Protect at volume level

NO - Unprotected volume

Revised: 10/5/84

SECURITY BOUNDARIES

TAPE

. SECVOLS VOLMASK(volmask1,volmask2,..., volmaskn)

- *Volumes protected at the volume level*

. OPTS TAPEDSN/NOTAPEDSN

- *Tape volumes protected at the dataset name level*

ACF2 LOGIC

1) IS VOLUME IN SECVOLS?

YES - Protect at volume level

NO - Check OPTS

2) OPTS is coded with

→ *TAPEDSN - Protect at datset name level*

NOTAPEDSN - Unprotected tape

Revised: 10/5/84

SECURITY BOUNDARIES EXAMPLE

. GSO records are coded as follows:

```
RESVOLS VOLMASK(WORK**,TEST**,USER**)
SECVOLS VOLMASK(SYS***,0107**,074352)
OPTS NOTAPEDSN
```

. How will ACF2 protect the following?

- *DSN=PAYROLL.WORK.DATA,VOL=SER=WORK05, UNIT=DISK*

- *DSN=ACCT.HISTORY.DATA,VOL=SER=074352, UNIT=TAPE*

- *DSN=SYS1.LPALIB,VOL=SER=SYSRES,UNIT=DISK*

- *DSN=MFG.MASTER.FILE,VOL=SER=098432, UNIT=TAPE*

Revised: 10/16/84

PROTECTED PROGRAMS

PPGM RECORD

. PGM-MASK(IEHD ****;FDR ***;DRWD ****;
ICKDSF **/PGM-mask1,.....,PGM-maskn)

- ***Programs that bypass System Integrity***

- ***Require NON-CNCL or SECURITY to use 'Protected Programs'***

Revised: 10/5/84

EXITS RECORD

- SYNTAX

EXITNAME(NULL/MODID)

- PSEUDO DSN GENERATOR (DSNGEN)

  TAKEN FOR EACH ACCESS TO VOLUMES NOT IN THE "RESIDENT" OR "SECURED" LISTS.

- DATASET PRE-VALIDATON (VLDEXIT)

  TAKEN PRIOR TO ACF2 ACCESS RULE VALIDATION.

- DATASET VIOLATION (VIOEXIT)

  TAKEN JUST PRIOR TO A REQUEST BEING ABORTED BY ACF2.

- DATASET POST-VALIDATION (DSNPOST)

  TAKEN AFTER DATASET VALIDATION. SUPERCEDES THE DATASET VIOLATION EXIT.

Revised: 10/5/84

EXITS RECORD
CONTINUED

ACCESS RULE AUTH PRE-PROCESSING (RULEPRE)

EXIT TAKEN PRIOR TO ACCESS RULE PROCESSING.

ACCESS RULE AUTH POST-PROCESSING (RULEPST)

EXIT TAKEN AFTER ACCESS RULE PROCESSING.

EXPIRED PASSWORD (EXPPXIT)

INVOKED WHEN A LOGONID WITH AN EXPIRED PASSWORD IS USED.

INFO STG AUTH PRE-PROCESSING (INFOPRE)

EXIT TAKEN PRIOR TO INFORAMTION STORAGE RECORD PROCESSING.

INFO STG AUTH POST-PROCESSING (INFOPST)

EXIT TAKEN AFTER INFORMATION STORAGE RECORDS PROCESSING.

TSO LOGON PRE-VALIDATION (LGNIXIT)

TAKEN AFTER LOGONID AND PASSWORD HAVE BEEN OBTAINED PRIOR TO THEIR VALIDATION.

TSO LOGON POST-VALIDATION (LGNPXIT)

TAKEN AFTER ACF2 LOGONID AND PASSWORD VALIDATION.

NEW PASSWORD (NEWPXIT)

TAKEN WHEN THE PASSWORD IS ALTERED AT SYSTEM ENTRY TIME OR VIA THE ACF COMMAND.

RESOURCE PRE-VALIDATON (RSCXIT1)

TAKEN PRIOR TO GENERALIZED RESOURCE VALIDATION.

RESOURCE POST-VALIDATION (RSCXIT2)

TAKEN AFTER ACF2 VALIDATION OF GENERALIZED RESOURCE.

EXITS RECORD

CONTINUED

SOURCE NAME MODIFICATION (SRCXIT)

TAKEN DURING SYSTEM ACCESS VALIDATION AND JOB INITIATION

STARTED TASK CONTROL VALIDATION (STCXIT)

TAKEN PRIOR TO ACF2 VALIDATION OF THE STARTED TASK LOGONID AT THE FIRST ATTEMPTED ACCESS BY THE TASK.

SUPERVISOR CALL PRE-PROCESSING (SVCIXIT)

TAKEN PRIOR TO SVC PROCESSING, USED IN A MUSASS ENVIRONMENT.

LOGON PARMS (LGNPARMS)

TAKEN AFTER ACF2 LOGON VALIDATION BUT BEFORE USER IS PASSED TO TSO. TSO POST-PROCESSING EXIT.

TERMINAL IDENTIFICATION (LGNTERM)

TAKEN PRIOR TO ACF2 LOGONID/PASSWORD REQUEST. TSO PRE-PROCESSING EXIT.

Revised: 10/5/84

SECURITY ADMINISTRATION

OPTS RECORD

. CENTRAL/NOCENTRAL

- *Centralize Data Ownership*

. CHANGE/NOCHANGE

- *Delegate Rule Maintenance*

. INFOLIST(SECURITY • ACCOUNT • AUDIT • LEADER • CONSULT • USER)

- *Authority to List Information Storage Records*

. DECOMP(SECURITY • ACCOUNT • AUDIT • LEADER • CONSULT • USER)

- *Authority to Decompile Rules*

. $NOSORT/NO$NOSORT

- *Authority to use $NOSORT in rule sets*

. VOLRULE/NOVOLRULE

- *Secured volume PSEUDO dataset name*

Revised: 10/17/84

AUDITING & LOGGING CONTROLS

* OPTS RECORD

  - ***BLPLOG/NOBLPLOG***

    Log BLP usage

  - ***DATE(MDY/DMY/YMD)***

    Date format

  - ***STAMPSMF/NOSTAMPSMF***

    LID stamp in SMF records

  - ***CMDREC/NOCMDREC***

    Produce TSO command stats

  - ***MODE(ABORT/WARN/LOG/QUIET/RULE no-record-mode no-$mode)***

    System Mode

* BLPPGMqualifier LIBRARY(lib) PGM(pgm1, pgm2,...,pgmn)

  BLP authorized programs

* LOGPGM PGMS(pgm1,pgm2,...,pgmn)

  Log access to selected programs

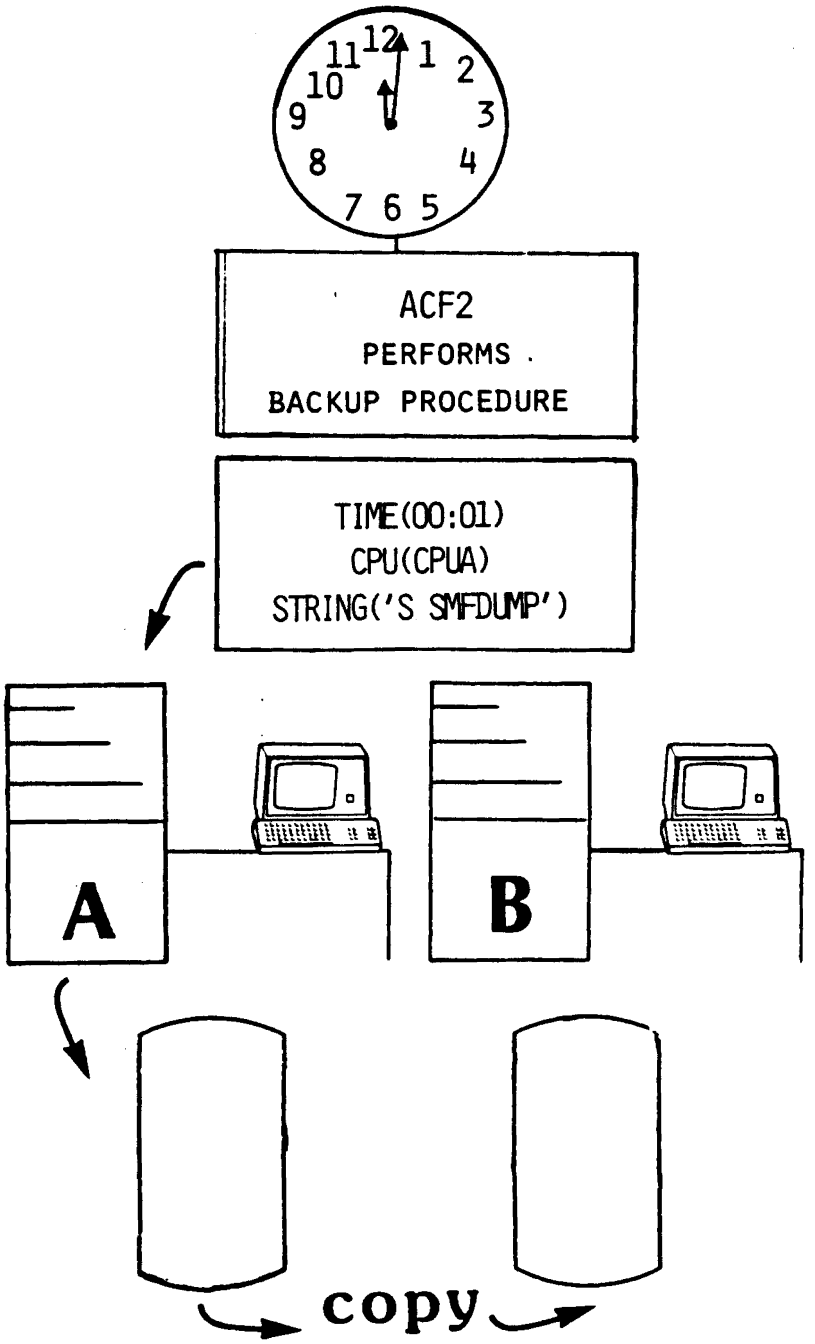
* WARN MSG(msg text)

  Violation warning message

Revised: 10/5/84

AUTOMATIC ACF2 DATABASE BACKUP

(BACKUP RECORD)



Revised: 10/5/84

RESIDENT RESOURCES

. RESIDENT ACCESS RULES

RESRULE INDEX(index1,index2,...indexn)

- DEFINES ACCESS RULES LOADED AT ACF2 INITIALIZATION

. RESIDENT RESOURCE DIRECTORIES

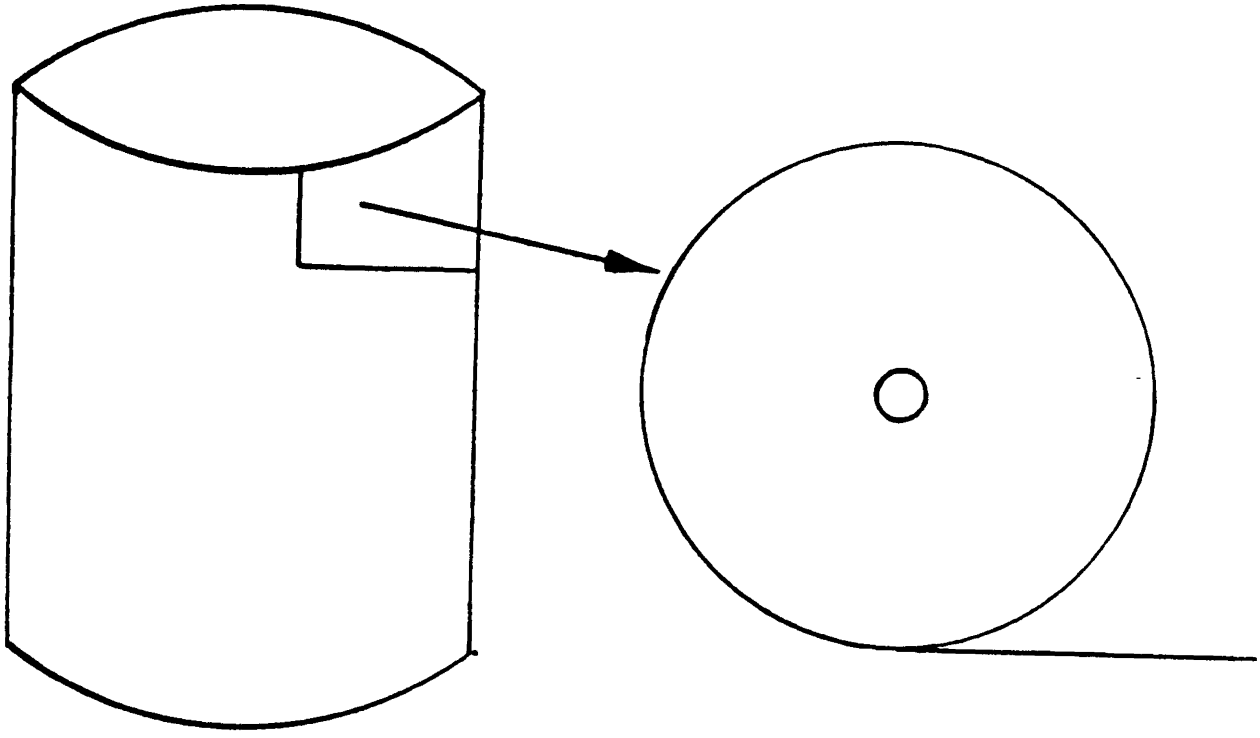
RESDIR TYPES(x-type1 x-type2 ... x-typen)

- DEFINES GENERALIZED RESOURCE RULE DIRECTORIES LOADED AT ACF2 INITIALIZATION

Revised: 10/5/84

ACF2 MAINTENANCE CONTROL

MAINTqualifier LIBRARY(library) LID(logonid)
PGM(pgm1,pgm2,...,pgmn)



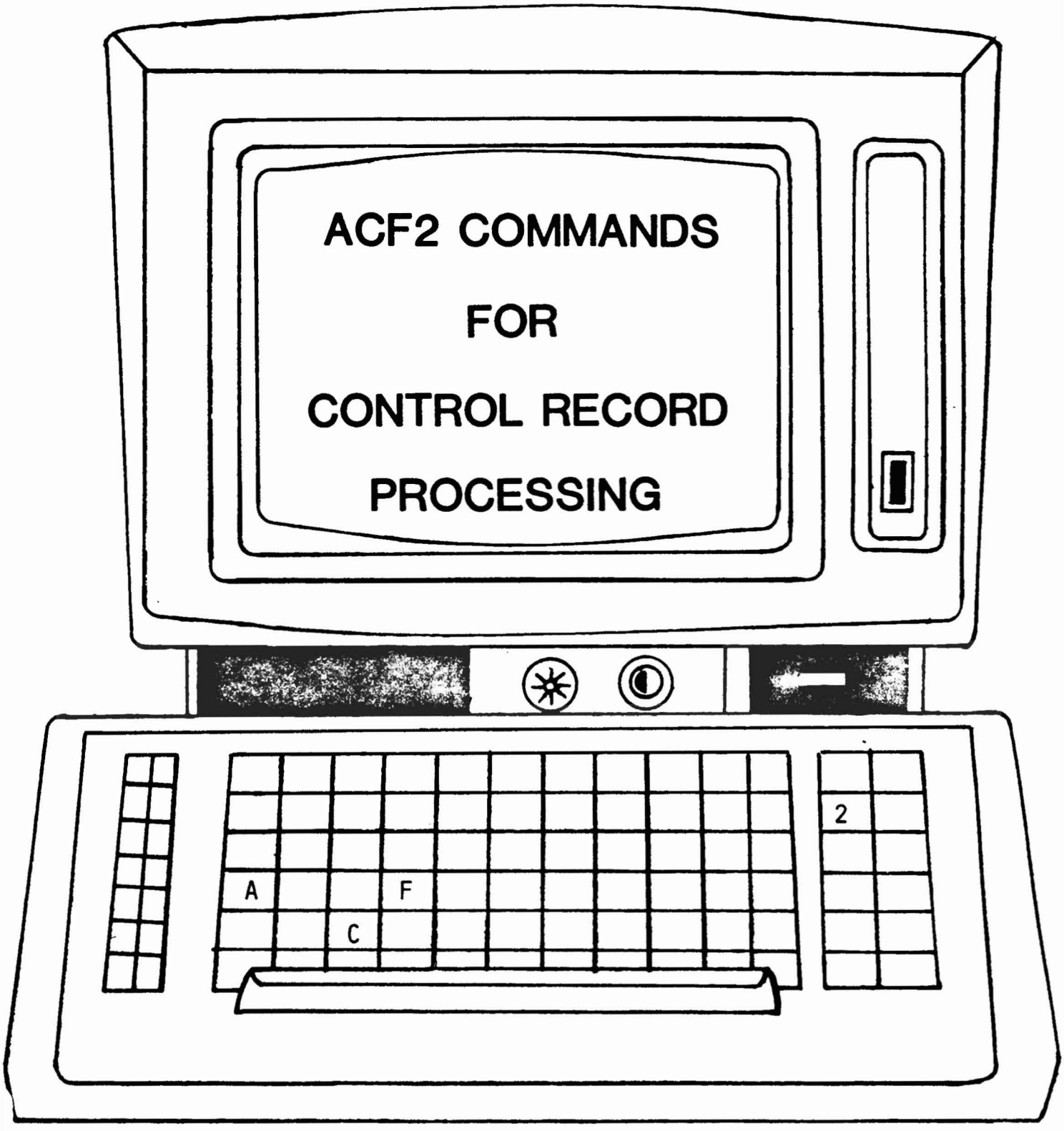
ALLOWS FOR :

- Suppression of SMF recording
- Bypasses ACF2 validation for DSN requests

REQUIRES :

- NON-CNCL or MAINT in Logonid

Revised: 10/5/84



Revised: 10/5/84

SUBCOMMANDS UNDER CONTROL MODE

SET CONTROL(GSO) {SYSID(sysid)/MSYSID(sysid-mask)}
{SET SYSID(sysid)/MSYSID(sysid-mask)}

INSERT {USING(recid)} {USYSID(?/sysid)} {SYSID(?/sysid)} RECID -
{field1,....,fieldn}

LIST {SYSID(?/sysid)/MSYSID(sysid-mask)} */RECID/LIKE(recid-mask)

CHANGE {SYSID(?/sysid)/MSYSID(sysid-mask)} */RECID {ADD/REP/DEL} -
{field1,....,fieldn}

DELETE {SYSID(?/sysid)/MSYSID(sysid-mask)} */RECID/LIKE(recid-mask)

Revised: 10/10/84

GSO Example

SET CONTROL(GSO) SYSID(CPU1)

SHOW MODE

```
MODE: CONTROL   TYPE: GSO  SYSID: CPU1
```

SHOW FIELDS(OPTS)

```
-- OPTS --
*$NOSORT    *BLPLOG     *CENTRAL    *CHANGE     *CONSOLE    *CPUTIME    *DATE
+DECOMP     *DFTLID     *DFTSTC     +INFOLIST   *JOBCK      *LABEXP     *LABNUM
*LIDRECL    *MAXVIO     +MODE       *NOTIFY     *SHRDASD    *STAMPSMF   *STC
*TAPEDSN    *UADS       *VOLRULE    *XBM
```

INSERT OPTS

```
CPU1 / OPTS LAST CHANGED BY OURISO ON 10/04/84-10:50
                    NO$NOSORT NOBLPLOG NOCENTRAL CHANGE CONSOLE(NOROLL)
                    CPUTIME(LOCAL) DATE(MDY) DECOMP(AUDIT SECURITY) DFTLID()
                    DFTSTC(ACFSTCID) INFOLIST(AUDIT SECURITY) NOJOBCK
                    LABEXP(00:00) LABNUM(0) LIDRECL(1,024) MAXVIO(10)
                    MODE(ABORT) NONOTIFY SHRDASD NOSTAMPSMF NOSTC NOTAPEDSN
                    NOUADS NOVOLRULE NOXBM
```

CHANGE OPTS MODE(RULE LOG LOG) REP

```
CPU1 / OPTS LAST CHANGED BY OURISO ON 10/04/84-10:50
                    NO$NOSORT NOBLPLOG NOCENTRAL CHANGE CONSOLE(NOROLL)
                    CPUTIME(LOCAL) DATE(MDY) DECOMP(AUDIT SECURITY) DFTLID()
                    DFTSTC(ACFSTCID) INFOLIST(AUDIT SECURITY) NOJOBCK
                    LABEXP(00:00) LABNUM(0) LIDRECL(1,024) MAXVIO(10)
                    MODE(RULE LOG LOG) NONOTIFY SHRDASD NOSTAMPSMF NOSTC
                    NOTAPEDSN NOUADS NOVOLRULE NOXBM
```

CHANGE OPTS MODE(ABORT) REP

```
CPU1 / OPTS LAST CHANGED BY OURISO ON  3/04/85-10:00
                    NO$NOSORT NOBLPLOG NOCENTRAL CHANGE CONSOLE(NOROLL)
                    CPUTIME(LOCAL) DATE(MDY) DECOMP(AUDIT SECURITY) DFTLID()
                    DFTSTC(ACFSTCID) INFOLIST(AUDIT SECURITY) NOJOBCK
                    LABEXP(00:00) LABNUM(0) LIDRECL(1,024) MAXVIO(10)
                    MODE(ABORT) NONOTIFY SHRDASD NOSTAMPSMF NOSTC NOTAPEDSN
                    NOUADS NOVOLRULE NOXBM
```

GSO RELATED OPERATOR COMMANDS

F ACF2,REFRESH(recid/ALL)

F ACF2,SHOWGSO

F ACF2,SHOWSYS

F ACF2,SETSYS(sysid)

F ACF2,TRACEGSO(SMF,CONSOLE/OFF/
SYSLOG/SECURITY)

ACFFDR
FIELD DEFINITION RECORD

. SPECIFIES:

- ***Logonid Field Definition***
- ***Logonid Considerations***
- ***System Definitions***

. REQUIRES ASSEMBLY and IPL TO MODIFY

. ONE PER CPU

LOGONID FIELD DEFINITION (@CFDE)

SPECIFIED PER FIELD:

- *NAME (EXTERNAL LABEL)*
- *INTERNAL SYMBOLIC LABEL*
- *LIST & ALTER AUTHORIZATIONS*
- *SPECIAL OPTIONS*
- *OUTPUT GROUPING WHEN LISTED*

LOGONID CONSIDERATIONS

- GROUP NAMES FOR DISPLAY (@GROUP)

- FIELD NAMES TO APPEAR FIRST LINE OF LOGONID DISPLAY (@HEADER)

- FIELDS ZEROED WHEN ACF2 COMMAND INSERT USING ISSUED (@ZEROFLD)

DATASET NAMES FOR ACF2 VSAM CLUSTERS

(@DDSN)

- Defines ACF2 Primary Clusters and Backup Datasets.

- Can also Define Alternate Clusters and Backup Datasets.

- Tells ACF2 the Names of:
  - *ACCESS RULE DATABASE*
  - *LOGONID DATABASE*
  - *INFORMATION STORAGE DATABASE*

SVC NUMBERS (@CSVC)

- TWO SVC NUMBERS REQUIRED:
  - *ALTER SVC provides System Validation and Data Base Management Functions*
  - *VALD SVC used for Dataset Validation*
- DEFAULT NUMBERS

  ALTER=222

  VALD=221

Revised: 5/7/84

SMF NUMBER (@SMF)

- ONE SMF RECORD NUMBER REQUIRED
- RECORDS INFORMATION ON:

  SYSTEMS ACCESS VIOLATIONS

  DATASET/PROGRAM VIOLATIONS AND LOGGING

  LOGONID RECORD CHANGES

  RULE RECORD CHANGES

  RESTRICTED LOGONID USAGE

  TSO COMMAND STATISTICS

  INFORMATION STORAGE CHANGES

  RESOURCE VIOLATIONS AND LOGGING

  ENVIRONMENTAL CHANGES

- DEFAULT NUMBER =230

Revised: 10/5/84

MULTIPLE USER SINGLE ADDRESS SPACE SUPPORT

(MUSASS)

- @MUSASS
  - *Identify MUSASS to ACF2*

- @MLID
  - *Allow Logonid Compression*

ACF2 IMS/CICS/IDMS PROTECTION

- ACF2/IMS INTERFACE
- ACF2/CICS INTERFACE
- ACF2/IDMS INTERFACE

Revised: 10/17/84

ACF2 IMS/CICS/IDMS INTERFACES

SIGN-ON VALIDATION

TRANSACTION VALIDATION

IMS APPLICATION GROUP VALIDATION

CICS PROVIDES

- ***PROGRAM VALIDATION***
- ***FILE VALIDATION***
- ***DL/I VALIDATION***
- ***TRANSIENT DATA VALIDATION***
- ***TEMPORARY STORAGE VALIDATION***
- ***MRO PROTECTION***

IDMS PROVIDES

- ***TASK EXECUTION VALIDATION***
- ***PROGRAM ACCESS VALIDATION***
- ***SUBSCHEMA ACCESS VALIDATION***
- ***AREA ACCESS VALIDATION***
- ***UNIVERSAL COMMUNICATIONS FACILITY (UCF) SUPPORT***

Revised: 10/17/84

ACF2
IMS/CICS/IDMS
SYSTEM OPTIONS

- DEFAULT LOGONID
- LOGONID AUTHORIZATION
- LOGONID ENQ NAME
- REGION MODE
- MAXIMUM VIOLATIONS
- ONLINE MESSAGES
- BATCH MESSAGES
- IMS RESOURCE RULE RELOAD TRANSACTION

Revised: 10/17/84

ACF2
IMS - CICS
RESOURCE TYPES

ACF2/IMS		DESCRIPTIONS
AGN	-	*APPLICATION GROUP NAMES*
TRN	-	*TERMINAL TRANSACTIONS*
TLK	-	*MULTI-SYSTEM TRANSACTIONS*
PTP	-	*PROGRAM-TO-PROGRAM SWITCHES*
CDL	-	*TRANSACTIONS VIA CHANGE DL/I*
SET	-	*/SET TRANSACTIONS*
LCK	-	*/LOCK OR /UNLOCK TRANSACTIONS*

ACF2/CICS		DESCRIPTIONS
TRANS	-	*TERMINAL TRANSACTIONS*
FILE	-	*CICS FILE*
PROGRAM	-	*CICS PROGRAMS*
TRANDATA	-	*TRANSIENT DATA*
TEMPSTRG	-	*TEMPORARY STORAGE*
DL/I	-	*DL/I*

ACF2/IDMS RESOURCE TYPES

ACF2/IDMS		DESCRIPTIONS
DAT	-	*IDMS DATA AREAS*
PGM	-	*IDMS PROTECTED PROGRAMS*
PGN	-	*IDMS NON-PROTECTED PROGRAMS*
SSC	-	*IDMS SUBSCHEMAS*
TSK	-	*IDMS TASKS*

Revised: 10/17/84

ACF2
IMS/CICS/IDMS
SYSTEM OPTIONS

MAXIMUM VIOLATIONS

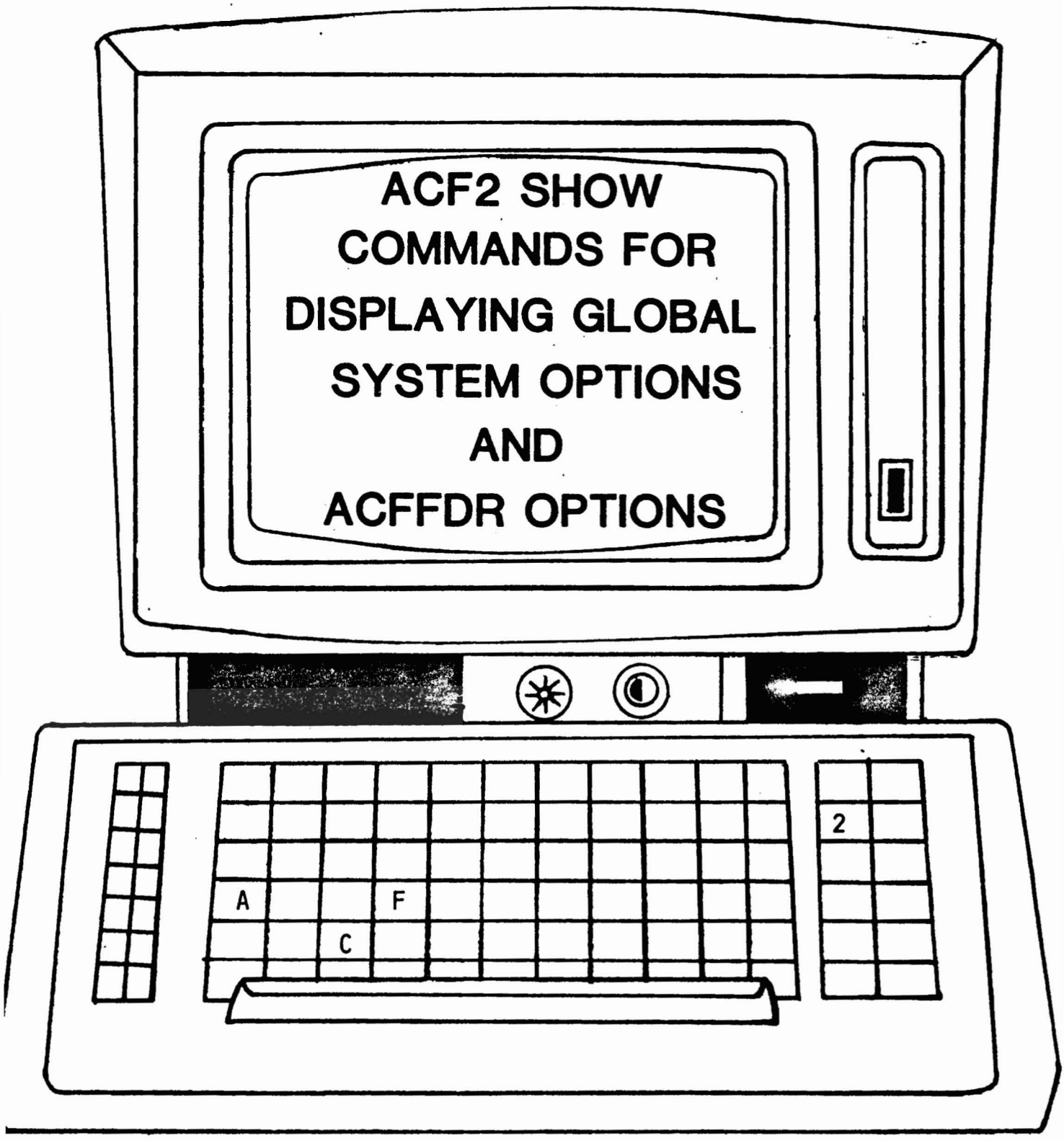
IMS/IDMS - SUSPEND LOGONID

CICS - SIGN-OFF USER AUTOMATICALLY

UNIQUE CICS OPTIONS

- ***QUIET MODE***
- ***FORCE SIGN-ON***
- ***SIGN-ON PROGRAM***
- ***VALIDATE IDLE TIME***
- ***SUSPEND FOR PASSWORD VIOLATIONS***
- ***SUSPEND FOR MAXIMUM VIOLATIONS***
- ***DISCONNECT TERMINAL FOR PASSWORD VIOLATIONS***
- ***DISPLAY ACF2 SYSTEM OPTIONS AT CICS INITIALIZATION***
- ***"GOOD MORNING" MESSAGE***

Revised: 10/17/84



"SHOW STATE" OUTPUT

```
RUNNING ACF2 REL 4.0;  WITH MODE = ABORT
USING FDR ASSEMBLY:  16.03  09/21/84

OPTIONS IN EFFECT:
TAPE BLP=NOLOG              CONTROL=DECENTRALIZED     %CHANGE=ALLOWED
CPUTIME=LOCAL               DATE FORMAT=MM/DD/YY      STC DFLT LID=ACFSTCID
DEFAULT LID=SKKDFT          JOB CHECK=NO              MAX VIO PER JOB=10
STC OPTION=OFF              TAPE DSN=NO               UADS=BYPASS
NOSORT=NO

PASSWORD OPTIONS IN EFFECT:
LOGON RETRY COUNT=1         MIN PSWD LENGTH=1         MAX PSWD ATTEMPTS=2
PSWD ALTER=YES              PSWD FORCE=YES            PSWD-JES=ON
PSWD WARN DAYS=1            PSWD ALGORITHM USED=XDES

UID STRING = LID

DECOMP AUTHORITY = SECURITY, AUDIT

INFO LIST AUTHORITY = SECURITY, AUDIT

VOLUME PSEUDO DSN = @VOLSER.VOLUME

-- DSNAME PROTECTED VOLUMES --
******
-- VOLSER PROTECTED VOLUMES --
******
```


Revised: 10/16/84

"SHOW SYSTEM" OUTPUT

```
-- SYSTEM PARAMETERS IN EFFECT --

SVCS:
ALTER SVC=222              VALIDATE SVC=221

SMF RECORD NUMBERS:
PASSWORD=220               DATASET VIO=221          LID JOURNAL=222
RULE JOURNAL=223           LID TRACE=224            TSO COMMAND=225
INFO JOURNAL=226           RESOURCE VIO=227         ACF2 COMMON=230

BACKUP:
AUTO BACKUP TIME=00.01     CPU-ID=
COMMAND STRING =

NJE OPTIONS IN EFFECT:
VALIDATE OUT =NO           VALIDATE IN =YES         INHERIT =YES

OTHER:
CONSOLE MSGS=ROLL          SHR-DASD=SUPPORTED       SMF LOGONID STAMP=NO
JES2-XBM=NO VALIDATE       LOGONID LENGTH = 1024    LAB NUMBER=      0
LABEXP=  00:00:00          NOTIFY=YES               CURRENT SYSID=SKK1
STARTUP SYSID=SKK1         BUILT ACCVT=SKK1
```


Revised: 10/16/84

"SHOW PROGRAMS" OUTPUT

```
-- RESTRICTED PROGRAM NAMES --
DRWD**** FDR***   ICKDSF** IEHD****

-- MAINTENANCE LOGONIDS/PROGRAMS/LIBRARIES --
MAINTLID MAINTPGM SYS1.LINKLIB
MAINTLID MAINTPG1 SYS1.LINKLIB
MAINTLID MAINTPG2 SYS1.LINKLIB
MAINTLID MAINTPG3 SYS1.LINKLIB
MAINTLID MAINTPG4 SYS1.LINKLIB

-- NO TAPE BYPASS LABEL PROGRAMS/LIBRARIES --

-- LOGGED PROGRAMS --
AMASPZAP
IMASPZAP
INCORZAP
```

"SHOW RESIDENT" OUTPUT

```
-- RESIDENT DIRECTORIES --
NONE SPECIFIED FOR THIS SYSTEM

-- RESIDENT ACCESS RULES --
NONE SPECIFIED FOR THIS SYSTEM
```


Revised: 10/16/84

"SHOW ACTIVE" OUTPUT

```
-- ACF2 INTERCEPTS THAT HAVE RECEIVED CONTROL --
DASD-OPEN(YES)          DASD-EOV(YES)           VSAM-OPEN(YES)
TAPE-OPEN(YES)          TAPE-EOV(YES)           CATALOG(YES)
DASD-ALOC(YES)          DASD-RENAME(YES)        DASD-SCRATCH(YES)
USER CALL(NO)           EXTERNAL CALL(NO)       PROGRAM CALL(YES)
JOB INIT(YES)           JOB/STEP TERM(YES)      TSO-MVS(YES)
CAT-CVOL(NO)            READER-VS1(NO)          INTERP-VS1(NO)

-- LOCAL EXITS SPECIFIED ON THIS SYSTEM --
DSN PRE-VALIDATE=NONE                   DSN POST-VALIDATE=NONE
DSN VIOLATION=NONE                      PSEUDO DSN GENERATE=NONE
RSRC PRE-VALIDATE=NONE                  RSRC POST-VALIDATE=NONE
STC VALIDATE=NONE                       SOURCE MODIFICATION=NONE
LOGON PRE-VALIDATE=NONE                 LOGON POST-VALIDATE=NONE
PASSWORD EXPIRATION=NONE                NEW PASSWORD=NONE
RULE DB PRE-PROCESS=NONE                RULE DB PST-PROCESS=NONE
INFO DB PRE-PROCESS=NONE                INFO DB PST-PROCESS=NONE
SVC INITIALIZATION=NONE                 TSO LOGON TERM TYPE=NONE
TSO LOGON PARM=NONE

-- ACF2 TRACE FACILITY --

CSO TRACE OPTION=OFF
```


Revised: 10/16/84

"SHOW DDSN" OUTPUT

```
-- ACF2 DYNAMIC DATASET NAMES SPECIFIED --
DDSN PRIMARY DEFAULTED AT STARTUP.  DSNS IN USE ARE:
         RULES=SYS1.ACF.RULES
         LOGONIDS=SYS1.ACF.LOGONIDS
         INFOSTG=SYS1.ACF.INFOSTG
         BACKRULE=SYS1.ACF.BKRULES
         BACKLID=SYS1.ACF.BKLIDS
         BACKINFO=SYS1.ACF.BKINFO

DDSN LISTS DEFINED IN FDR ARE:
PRIMARY  RULES=SYS1.ACF.RULES
         LOGONIDS=SYS1.ACF.LOGONIDS
         INFOSTG=SYS1.ACF.INFOSTG
         BACKRULE=SYS1.ACF.BKRULES
         BACKLID=SYS1.ACF.BKLIDS
         BACKINFO=SYS1.ACF.BKINFO

ALT      RULES=SYS1.ACF.ALTRULES
         LOGONIDS=SYS1.ACF.ALTLIDS
         INFOSTG=SYS1.ACF.ALTINFO
         BACKRULE=SYS1.ACF.ABKRULES
         BACKLID=SYS1.ACF.ABKLIDS
         BACKINFO=SYS1.ACF.ABKINFO
```

"SHOW LINKLIST" OUTPUT

```
-- DATASETS INCLUDED IN THE "LINK LIST" --
SYS1.LINKLIB
```


Revised: 10/16/84

"SHOW TSO" OUTPUT

```
-- TSO RELATED DEFAULTS ACTIVE --
LOGON ACCOUNT STRING=1
CMD LIST BYPASS CHAR=#      CHAR DELETE CHAR=NONE      TSO CMD LIST=NONE
COMMAND SMF RECORDS=NO      LINE DELETE CHAR=NONE      LOGON CHECK=NO
PERFORMANCE GROUP=NONE      TSO LOGON PROC=IKJACCNT    QUICK LOGON=YES
TSO REGIONSIZE=1024         SUBMIT CLASS=NONE          SUBMIT HOLD CLASS=NONE
SUBMIT MSGCLASS=NONE        SESSION TIME=0             SYSOUT CLASS=A
TSO UNITNAME=SYSDA          LOGON WAIT TIME=NO         FSRETAIN=NO
```

"SHOW ZEROFLDS" OUTPUT

```
-- FIELD VALUES WHICH WILL NOT BE COPIED DURING 'INSERT USING' PROCESSING --
PASSWORD    PSWD-TOD    NAME        PHONE       UPD-TOD     SEC-VIO
PSWD-VIO    PSWD-DAT    ACC-DATE    ACC-TIME    ACC-CNT     ACCTPRIV
OPERATOR    NON-CNCL    MOUNT       NO-SMC      MUSASS      JOBFROM
ACC-SRCE    TSORBA      SECURITY    LEADER      CONSULT     AUDIT
ACCOUNT     SCPLIST     LOGSHIFT    READALL     RULEVLD     SHIFT
ZONE
```

"SHOW ACF2"

- Produces all other SHOW Command output

Revised: 10/16/84

ACFRPTPP
SMF RECORD PRE-PROCESSOR

- SELECTS ACF2 RECORDS FROM SMF DATASETS
- REDUCES OVERHEAD OF RUNNING MULTIPLE REPORTS
- PROVIDES STATISTICAL INFORMATION ABOUT ACF2/SMF RECORDS
- PRODUCES A CROSS REFERENCE REPORT OF ALL SMF INPUT

ACFRPTPP - SAMPLE OUTPUT

```
ACF2 UTILITY LIBRARY - ACFRPTPP - SMF RECORD PRE-PROCESSOR  -  PAGE    1
DATE 10/10/84 (84.284) TIME 07.53

                *-- RECORD SELECTION SUMMARY - BY DDNAME --*

  DDNAME    DESCRIPTION          COUNT  SELECTION


 SMFPR      SYSTEM ENTRY VIO        24  220-P,230-*
 SMFER      INFO-STG DB LOG         92  226-E,230-*
 SMFVR      RESOURCE LOG/VIO       104  227-V,230-*
 SMFJR      LOGONID DB LOG         707  222-L,230-*
 SMFAR      RULES DB LOG           678  223-R,230-*
 SMFCR      COMMAND TRACE           08  225-T,230-*
 SMFTR      RESTRICTED LIDS         23  224-J,230-*
 SMFDR1     DATASET LOGS         1,273  221-D,230-*
 SMFDR2     DATASET VIOS            41  221-D,230-*
 SMFDR3     DATASET TRACE          511  221-D,230-*
 SMFDR4     PGMNAME LOG/VIO         38  221-D,230-*
 SMFNR      ACF2 ENVIRONMENT       190  A,G,00,07,230-*

                                        * - INDICATES ACF2 COMBINED SMF NUMBER


                     --- TOTAL RECORDS PROCESSED ---

READ=22,568              SELECTED=3,650           WRITTEN=3,689

********************************************************************************


ACF2 UTILITY LIBRARY - ACFRPTPP - SMF RECORD PRE-PROCESSOR  -  PAGE    2
DATE 10/10/84 (84.284) TIME 07.53

                *-- SMF RECORDS INPUT SUMMARY - BY DDNAME --*

        <---------- STARTING ----------> <----------- ENDING ----------->
DDNAME  <---PHYSICAL---><---LOGICAL----> <---PHYSICAL---><---LOGICAL---->  COUNT
           DATE    TIME    DATE    TIME     DATE    TIME    DATE    TIME

RECMANO  10/08/84 09.19  10/08/84 09.19   10/10/84 07.51  10/10/84 07.51  22,568
```

ACFRPTPP - SAMPLE OUTPUT

ACF2 UTILITY LIBRARY - ACFRPTPP - SMF RECORD PRE-PROCESSOR - PAGE 3
DATE 10/10/84 (84.284) TIME 07.53

-- SMF RECORDS INPUT SUMMARY - BY TYPE --

	--0--	--1--	--2--	--3--	--4--	--5--	--6--	--7--	--8--	--9--
0-	6	0	0	0	1072	497	498	0	6	17
10-	0	7	0	0	0	0	0	0	0	0
20-	936	44	6	33	0	0	1279	0	0	0
30-	3114	0	301	0	305	304	0	0	0	0
40-	7915	0	0	6	0	2	0	16	10	0
50-	0	0	0	0	0	7	0	5	4	0
60-	0	0	0	0	0	0	0	0	0	0
70-	35	35	560	35	35	175	1610	35	0	0
80-	0	0	0	0	0	0	0	0	0	0
90-	14	0	0	0	0	0	0	0	0	0
100-	0	0	0	0	0	0	0	0	0	0
110-	0	0	0	0	0	0	0	0	0	0
120-	0	0	0	0	0	0	0	0	0	0
130-	0	0	0	0	0	0	0	0	0	0
140-	0	0	0	0	0	0	0	0	0	0
150-	0	0	0	0	0	0	0	0	0	0
160-	0	0	0	0	0	0	0	0	0	0
170-	0	0	0	0	0	0	0	0	0	0
180-	0	0	0	0	0	0	0	0	0	0
190-	0	0	0	0	0	0	0	0	0	0
200-	0	0	0	0	0	0	0	0	0	0
210-	0	0	0	0	0	0	0	0	0	0
220-	0	0	0	0	0	0	0	0	0	0
230-	3644	0	0	0	0	0	0	0	0	0
240-	0	0	0	0	0	0	0	0	0	0
250-	0	0	0	0	0	0				
	--0--	--1--	--2--	--3--	--4--	--5--	--6--	--7--	--8--	--9--

acf2

The Access Control Facility

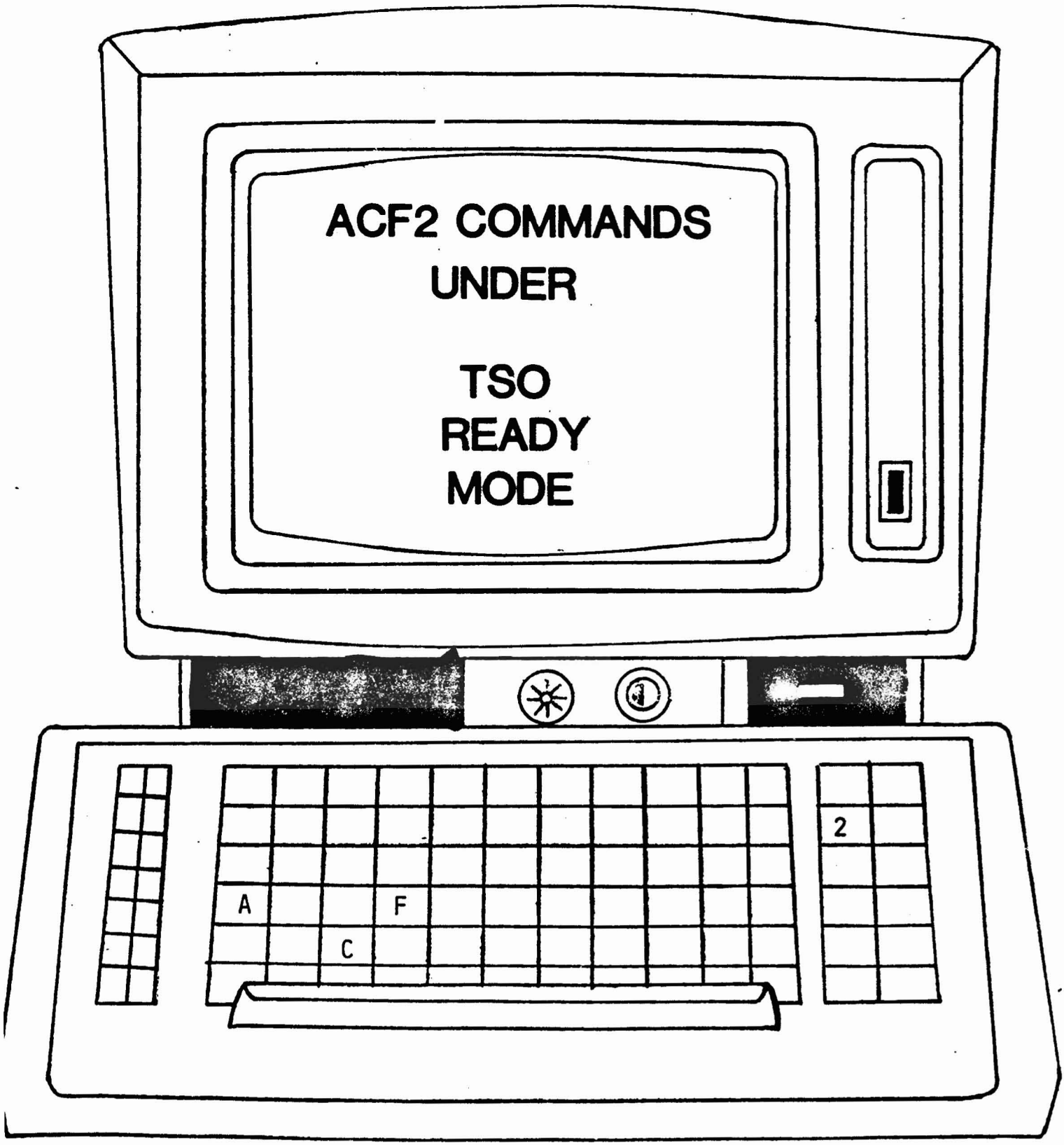
SESSION 7

COMMANDS

AND

UTILITIES

10/10/84



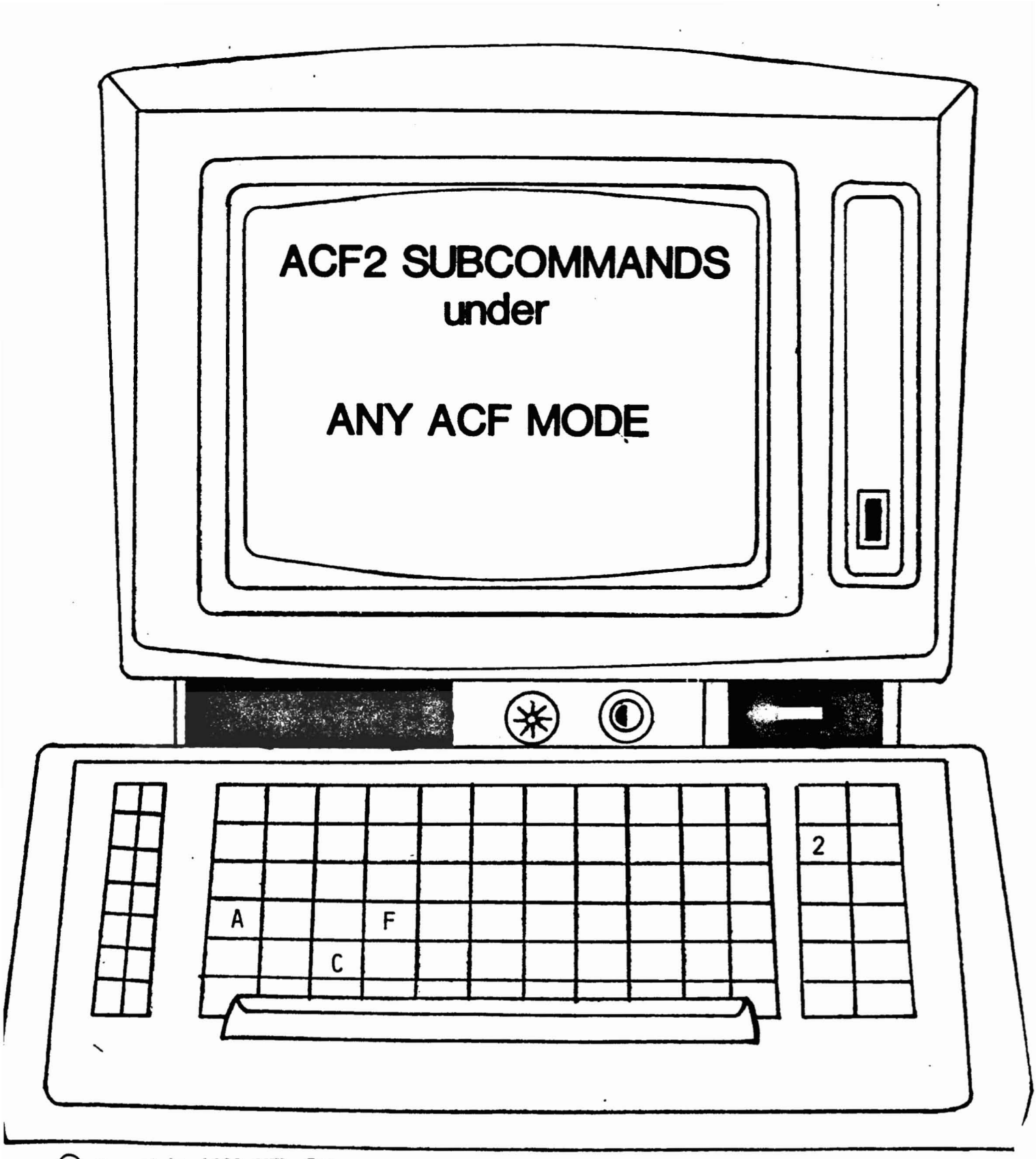
ACF2 COMMANDS UNDER TSO READY MODE

. ACFDEL DSNAME ERASE/NOERASE SCRATCH/NOSCRATCH -

UNCATALOG/NOUNCATALOG VOLUME(VOLUME)

. ACFSUB MEMBER-LIST LIB(PDS-ID) TERMINAL/INTRDR

. ACF (CONTAINS MANY SUBCOMMANDS UNDER DIFFERENT MODES)



ACF2 SUBCOMMANDS UNDER ANY ACF MODE

- SET TERSE/VERBOSE

  TRIVIA/NOTRIVIA

  NORULES

  NOERROR

  ACF/LID/RULE/RESOURCE(TTT)/ENTRY(TTT)/SCOPE(TTT)/SHIFT(TTT)/CONTROL(GSO)

  FORCE/NOFORCE

  MEMBER(NNN)

- SN 'MESSAGE',USER('LOGON-ID'),LOGON/NOW/SAVE,WAIT/NOWAIT

- END

- HELP SUBCOMMAND

Revsied: 10/16/84

SAMPLE HELP OUTPUT - "LIST"

```
ACF

HELP LIST

LIST SUBCOMMAND (ALIAS L)


----> FUNCTION -

    THE LIST COMMAND WILL LIST THE CONTENTS OF A SPECIFIED LOGONID RECORD
    OR RANGE OF LOGONID RECORDS.  IF THE SYSTEM IS SET IN TERSE MODE,
    JUST THE LOGONID, THE USER IDENTIFICATION STRING, AND THE NAME FIELD
    OF THE LOGONID RECORD WILL BE LISTED.  IF THE SYSTEM IS SET IN VERBOSE
    MODE ALL THE FIELDS THAT THE USER IS AUTHORIZED TO SEE WILL BE
    LISTED.  FOR AN EXPLANATION OF SOME OF THE FIELDS SUPPLIED WITH
    THE ACF2 SYSTEM, TYPE HELP FIELDS.
    TERSE AND VERBOSE MODE ARE SET BY THE SET SUBCOMMAND.

----> SYNTAX -

          LIST */'LOGONID'
          LIST LIKE('LOGONID-MASK') UID('UID-MASK') IF('FIELD-MASK')
    REQUIRED - AT LEAST ONE OPERAND.

----> OPERANDS -
    *          - THE LAST REFERENCED LOGONID WILL BE USED -
                 THE USER'S LOGONID IS DEFAULTED WHEN THE ACF COMMAND
                 IS ENTERED.
  'LOGONID' - SPECIFIES THE LOGONID RECORD TO BE LISTED.
    LIKE('LOGONID-MASK')
              - SPECIFIES THE RANGE OF LOGONID RECORDS TO BE LISTED.  AN
                ASTERISK IS USED TO INDICATE THAT ANY CHARACTER MAY BE
                SUBSTITUTED.
    IF(FIELD1,FIELD2,...,FIELDN)
              - SPECIFIES A LIST OF BIT FIELDS THAT MUST ALL BE "ON" IN
                THE LOGONID RECORD FOR IT TO BE SELECTED.  PERMISSIBLE
                FIELDS TO REQUEST ARE ANY ACF2 LOGONID FIELDS DESCRIBED
                AS BIT FIELDS.
    UID('UID-MASK')
              - SPECIFIES THE USER IDENTIFICATION STRING MASK FIELD THAT
                IS TO BE USED TO SELECT LOGONID RECORDS.  AN ASTERISK (*)
                MAY BE USED TO INDICATE THAT ANY CHARACTER MAY BE SUB-
                STITUTED.  THE UID STRING IS INSTALLATION DEPENDENT IN
                FORMAT AND CONTENTS.
```

ACF2
OPERATOR COMMANDS

Start Command

- MVS S ACF2[,PARM=]
- VS1 S ACF2.PNN[,PARM=]

PARM FIELD VALUES:

NOBACKUP

COMMAND('STRING')

DDSNS(DSN-GROUP)

SYSID(SYSID)

Stop Command

- P ACF2

Modify Command

- F ACF2,BACKUP
- F ACF2,RESET(LOGONID)
- F ACF2,RELOAD(RULE-ID)
- F ACF2,REBUILD(DIRECTORY-TYPE)
- F ACF2,NEWXREF
- F ACF2,NEWSHIFT

Revised: 10/10/84

ACFERASE (DATA DISPOSAL UTILITY)

* REMOVES ALL DATA FROM NON-VSAM, DASD, MSS, OR TAPE VOLUME

* BATCH (ACFERASE) OR TSO COMMAND (ACFDEL)

* VOLUME LABEL ERASE OPTIONS

ACFRECVR

(DATABASE RECOVERY UTILITY)

* FORWARD RECOVERS ACF2 VSAM CLUSTERS USING SMF RECORDS
* CHECKS TIME-OF-DAY STAMPS
* PARAMETER DRIVEN START/STOP TIME AND DATE FOR SELECTIVE RECOVERY
* PRODUCES OUTPUT LISTING IDENTIFYING RECOVERY RECORDS PROCESSED

ACFRECVR - SAMPLE OUTPUT

ACF2 UTILITY LIBRARY - ACFRECVR - VSAM FILE RECOVERY UTILITY

DATE 03/09/83 (83.068) 10.45 LAST LID 83.066-09.00 LAST RULE 83.067-12:25 LAST INFOSTG 83.067-11.30

	DATE	TIME	CLUSTER	KEY	JOBNAME	CHANGER	CHANGE	STATUS
(1)	83.066	03/07	09.00	LOGONID TJJ	MSTRJCL		UPDATE	BYP-TOD STAMP*
(2)	83.067	03/08	12.25	RULE-ID SYS1	ACF2	ACF2	REPLACE	REC-REPLACED
(3)	83.067	03/08	11.30	INFOSTG ESRCRM200#3	ACF2	ACF2	INSERT	REC-INSERTED

ACF2/SPF APPLICATIONS

PROVIDE

PANELS

MESSAGES

TUTORIALS

CLISTS

Revised: 6/9/83

ACF2/SPF APPLICATIONS

```
------------------------ ISPF/PDF PRIMARY OPTION MENU ------------------------
OPTION  ===> a_
                                                          USERID    - USRHAZ
   0  ISPF PARMS  - Specify terminal and user parameters   TIME      - 10:30
   1  BROWSE      - Display source data or output listings TERMINAL  - 3278
   2  EDIT        - Create or change source data           PF KEYS   - 12
   3  UTILITIES   - Perform utility functions              JULIAN    - 84.290
   4  FOREGROUND  - Invoke language processors-Foreground  DATE      - 84/10/16
   5  BATCH       - Submit job for language processing     PREFIX    - USRHAZ
   6  COMMAND     - Enter TSO command or CLIST             PROC      - $MYPROC
   7  DIALOG TEST - Perform dialog testing
   A  ACF2        - Perform ACF2 Processing
   B  ABR         - Perform Archive and Backup utility functions
   C  CHANGES     - Display summary of changes for this release
   D  STARS       - STARS management
   I  IOF         - Interactive Output Facility
   P  PDS         - PDS command processor
   S  SKK         - SKK applications
   T  TUTORIAL    - Display information about ISPF/PDF
   X  EXIT        - Terminate ISPF using log and list defaults

For an index of current notes on TSO/ISPF, browse 'SKK.NEWS(CONTENTS)'

Enter END command to terminate ISPF.
```


Revised: 10/18/84

ACF2/SPF APPLICATIONS

```
---------- ACF2 SPF OPTION SELECTION MENU ----------

   SELECT OPTION====> 6_

  1  RULES     - PROCESS ACF2 ACCESS AND GENERALIZED RESOURCE RULES
  2  LOGONIDS  - ACF2 LOGONID CREATION/MAINTENANCE FACILITY
  3  SYSTEM    - ACF2 SHOW COMMANDS
  4  REPORTS   - ACF2 REPORT PROGRAM PROCESSOR
  5  UTILITIES- PROCESS ACF2 UTILITIES
  6  GSO       - GLOBAL SYSTEM OPTIONS SERVICES
```


Revised: 10/18/84

ACF2/SPF APPLICATIONS

```
------------------------- ACF2 GLOBAL SYSTEM OPTIONS ----------------------

   SELECT OPTION ===> 1_

   1  INSERT   - INITIALLY DEFINE GLOBAL SYSTEM OPTIONS

   2  CHANGE   - CHANGE EXISTING GLOBAL SYSTEM OPTIONS

   3  LIST     - DISPLAY GSO RECORDS AND PARAMETERS

   4  DELETE   - DELETE AN ENTIRE GSO RECORD

   5  ACF2     - SHOW ALL ACFFDR AND GSO OPTIONS IN EFFECT

   6  FIELDS   - SHOW FIELD NAMES OF A GSO RECORD
```


Revised: 10/23/84

ACF2/SPF APPLICATIONS

```
------------------------------ ADD A GSO RECORD ------------------------------
COMMAND ===>

--CONTROL MODE-- CONTROL ==> GSO

--INSERT--

  SYSID          ===> cpuz

  USING SYSID    ===>           OPTIONAL SYSTEM ID FOR COPY OF EXISTING VALUES

  RECID          ===> opts_     (BACKUP, BLPPGM, EXITS, LINKLST, LOGPGM,
                                 MAINT, NJE, OPTS, PPGM, PSWD, RESDIR,
                                 RESRULE, RESVOLS, SAFSAFE, SECVOLS, TSO, TSOCRT,
                                 TSOKEYS, TSOTWX, TSO2741, WARN)

  USING RECID    ===>                    OPTIONAL PROTOTYPE RECORD NAME

 SPECIFICATION OF RECID WILL RESULT IN DISPLAY OF APPROPRIATE PANEL
 FOR OPTION SPECIFIED
```


Revised: 10/18/84

ACF2/SPF APPLICATIONS

```
----------------------------INSERT A GSO RECORD -------------------------------
COMMAND ===>

 MODE: CONTROL TYPE: GSO   SYSID: CPUZ

  COMMAND: INSERT

  RECORD ID: OPTS

  FIELDS:   ENTER Y OR N:
          $NOSORT  ===> Y  BLPLOG    ===> Y  CENTRAL  ===>
          CHANGE   ===>    JOBCK     ===>    NOTIFY   ===>
          SHRDASD  ===>    STAMPSMF  ===>    STC      ===>
          TAPEDSN  ===>    SAFTRACE  ===>    UADS     ===>
          VOLRULE  ===>    XBM       ===>

            ENTER APPLICABLE VALUE(S):
          CONSOLE  ===>             CPUTIME  ===>
          DATE     ===> MDY         DFTLID   ===>
          DFTSTC   ===>             LABEXP   ===>
          LABNUM   ===>             LIDRECL  ===>
          MAXVIO   ===> 10          MODE     ===> RULE QUIET WARN
          DECOMP   ===>
          INFOLIST ===>
```

ACF2/SPF APPLICATIONS

```
TUTORIAL ------------------ ACF2 GLOBAL SYSTEM OPTIONS -----------------------
NEXT SELECTION ===> _
```

YOU MAY SELECT THE ACF2 GLOBAL SYSTEM OPTIONS BY :
- SELECTING OPTION A.6 FROM THE PRIMARY OPTION MENU
- SELECTING OPTION 6 FROM ACF2 SELECTION MENU

THE ACF2 GLOBAL SYSTEM OPTIONS FEATURE ALLOWS A SECURITY OFFICER TO DYNAMICALLY CREATE AND MODIFY CERTAIN ACF2 OPTIONS AND PARAMETERS. IT IS A CONVENIENT METHOD OF CUSTOMIZING THE ACF2 SYSTEM TO MEET INSTALLATION-SPECIFIC NEEDS, WITHOUT HAVING TO ASSEMBLE AND LINK-EDIT MODULES AND RE-IPL.

THE FOLLOWING TOPICS MAY BE SELECTED BY NUMBER:

1	INSERT	- INITIALLY DEFINE GLOBAL SYSTEM OPTIONS
2	CHANGE	- CHANGE EXISTING GLOBAL SYSTEM OPTIONS
3	LIST	- DISPLAY GSO RECORDS AND PARAMETERS
4	DELETE	- DELETE AN ENTIRE GSO RECORD
5	ACF2	- SHOW ALL ACFFDR AND GSO OPTIONS IN EFFECT
6	FIELDS	- SHOW GSO FIELD NAMES

REPORTS

ASSOCIATED WITH

OPERATOR

COMMANDS

10/10/84

ACFRPTNV
ENVIRONMENT LOG

. Identifies changes to the operating system and ACF2 that have an effect on security.

. Shows

- ***Command Entered***
- ***Which operator console was used***

. Can Optionally Show

- ***Detail information***

10/10/84

ACFRPTNV

```
ACF2 UTILITY LIBRARY - ACFRPTNV - ENVIRONMENT REPORT - PAGE    1
DATE 10/10/84 (84.284) TIME 08.06 ENVIRONMENT RECORDS

ENVIRONMENT EVENT            DATE      TIME    CID CPU   ACF2 SYSID  ACF2 CMD RESULT

ACF2 STOP                 84.283 10/09  06:10   00  SKK1   SKK1       COMMAND SUCCESSFUL
MVS SYSTEM SHUTDOWN       84.283 10/09  06:10       SKK1
MVS SYSTEM IPL            84.283 10/09  06:19       SKK1
ACF2 START                84.283 10/09  06:19   00  SKK1               OPERATOR INPUT
   MSG ='ACF79505 INITIAL START IN PROGRESS FOR SYSTEM: SKK1'
   MSG ='ACF79506 GSO REFRESHING BACKUP'
   MSG ='ACF79506 GSO REFRESHING BLPPGM'
   MSG ='ACF79506 GSO REFRESHING EXITS'
   MSG ='ACF79506 GSO REFRESHING LINKLST'
   MSG ='ACF79506 GSO REFRESHING LOGPGM'
   MSG ='ACF79506 GSO REFRESHING MAINT'
   MSG ='ACF79506 GSO REFRESHING NJE'
   MSG ='ACF79506 GSO REFRESHING OPTS'
   MSG ='ACF79506 GSO REFRESHING PPGM'
   MSG ='ACF79506 GSO REFRESHING PSWD'
   MSG ='ACF79506 GSO REFRESHING RESDIR'
   MSG ='ACF79506 GSO REFRESHING RESRULE'
   MSG ='ACF79506 GSO REFRESHING RESVOLS'
   MSG ='ACF79506 GSO REFRESHING SAFSAFE'
   MSG ='ACF79506 GSO REFRESHING SECVOLS'
   MSG ='ACF79506 GSO REFRESHING TSO'
   MSG ='ACF79506 GSO REFRESHING TSOCRT'
   MSG ='ACF79506 GSO REFRESHING TSOKEYS'
   MSG ='ACF79506 GSO REFRESHING TSOTWX'
   MSG ='ACF79506 GSO REFRESHING TSO2741'
   MSG ='ACF79506 GSO REFRESHING WARN'
   MSG ='ACF79507 GSO PROCESSING COMPLETED WITHOUT ERROR'
ACF2 START                84.283 10/09  06:20   00  SKK1   SKK1       COMMAND SUCCESSFUL
ACF2 MODIFY               84.283 10/09  12:44   00  SKK1   SKK1       OPERATOR INPUT
   PARM='RELOAD(SYS1)'

ACF2 MODIFY               84.283 10/09  12:44   00  SKK1   SKK1       COMMAND SUCCESSFUL
   PARM='RELOAD(SYS1)'
```


10/10/84

acf2

The Access Control Facility

SESSION 8

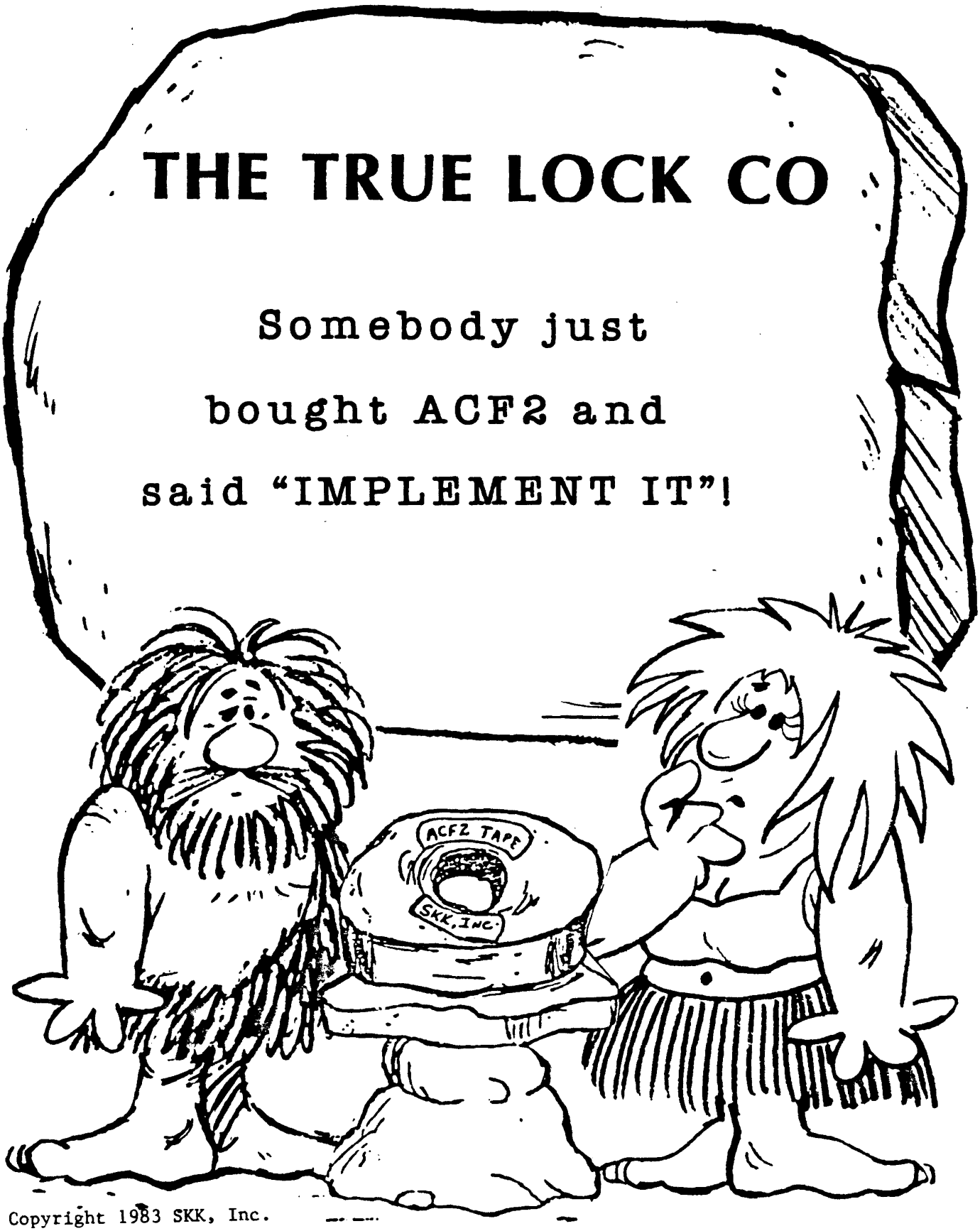
ADMINISTRATIVE WORKSHOP

10/10/84

ADMINISTRATIVE WORKSHOP OUTLINE

- IMPLEMENTATION PLANNING
- ACF2 SYSTEM OPTION MODIFICATIONS
  - *Already Completed*
  - *Your Modifications*
- LOGONID MAINTENANCE
  - *Introduction and UID String Exercise*
  - *Logonid Creation Exercise*
- RULE WRITING
  - *Dataset & Volume Control*
    - *Dataset Rules*
    - *VTOC Rule*
    - *NEXTKEY Rules*
  - *Generalized Resource Control*
    - *TSO Account Numbers*
    - *CICS Rules*
      - *Transaction*
      - *Program*
      - *File*

Revised: October 8, 1984



THE TRUE LOCK IMPLEMENTATION TEAM

- PEARL
  - *Installation Security Officer*
- MARY
  - *System Programmer*
  - *ACF2 Maintenance*
- VIOLET
  - *Operations Scheduler*
  - *Datacenter Operations Person*
- OSCAR
  - *Quality Assurance Analyst*
  - *User Support Person*
- STAFF AUDITOR
  - *Internal Auditing*

Revised: October 8, 1984

IMPLEMENTATION TEAM DUTIES

* ***DEFINE RELEVANT ORGANIZATION STRUCTURES, NAMING CONVENTIONS, ETC.***
* ***DEFINE SECURITY POLICY***
* ***ESTABLISH IMPLEMENTATION PLAN***
* ***REVIEW TECHNICAL CONSIDERATIONS AND INSTALLATION ACTIVITIES***
* ***SELECT SYSTEM OPTIONS INCLUDING UID STRING***
* ***DEFINE RESPONSIBILITIES AND AUTHORIZATIONS***
* ***DEFINE BASIC USER ATTRIBUTES***
* ***OVERSEE DOCUMENTATION DISTRIBUTION AND USER TRAINING***
* ***INITIATE RULE WRITING***
* ***MONITOR IMPLEMENTATION PLAN PROGRESS***
* ***RESOLVE CONFLICTS OR DELAYS***

Revised: October 8, 1984

TYPICAL IMPLEMENTATION PLAN

STEP 1 DISTRIBUTE ACF2 DOCUMENTATION TO IMPLEMENTATION TEAM.

HOLD ORGANIZATION MEETINGS AND LAY OUT GENERAL TIME TABLE.

STEP 2 IDENTIFY SECURITY POLICIES, GOALS, AND OBJECTIVES

MAKE PRELIMINARY OPTION SELECTIONS

FINALIZE RESPONSIBILITY ASSIGNMENTS AND SCHEDULES

INSTALL ACF2 ON TARGET SYSTEM PACK

STEP 3 REFINE OPTION SELECTIONS

PREPARE FOR TEST IPL (DOES EVERYTHING WORK?)
- TECHNICAL PREPARATION (SYSTEMS), INCLUDING LOCAL EXITS
- TEST SYSTEM OPTION SELECTIONS
- TEST LOGONIDS
- TEST RULES
- TEST PROCEDURES

INITIAL TRAINING (ADMINISTRATORS, OPERATORS, ETC.)

STEP 4 TEST IPL (LOG MODE)

REVIEW RESULTS, INCLUDING REPORTS

MODIFY GSO/ACFFDR, PROCEDURES, ETC. IF NECESSARY

ADDITIONAL TRAINING AND ANNOUNCEMENTS

STEP 5 INSTALL SYSTEM (LOG MODE)

ESTABLISH INITIAL USERS

WRITE MAJORITY OF RULES

CLOSELY MONITOR REPORTS

STEP 6 RE-ADJUST GSO/ACFFDR OPTIONS IF NECESSARY

COMPLETE USER DEFINITIONS

COMPLETE RULES

MIGRATE TO WARN MODE, THEN ABORT MODE

acf2

The Access Control Facility

ACF2 SYSTEM OPTION

MODIFICATIONS

03/08/83

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FIRST MODIFICATIONS)

1. True Lock elected to modify the default options for some of the Logonid fields. These changes required that the default @CFDE entries be modified.

   a) It was felt that a user with the LEADER privilege should be allowed to modify the following fields:

AUTODUMP	LGN-PROC	PMT-ACCT	TSOPERF
CMD-LONG	LGN-RCVR	PMT-PROC	TSORGN
DUMPAUTH	LGN-SIZE	PSWD-EXP	TSOSIZE
EXPIRE	LGN-TIME	TRACE	TSOTIME
JCL	LGN-UNIT	TSO	TSOUNIT
JOB	MAXDAYS	TSO-TRC	
LGN-PERF	MINDAYS	TSOACCT	

   b) It was also felt that a user with the ACCOUNT privilege should not be allowed to modify the TSO-TRC field.

2. True Lock has elected to use a portion of user area within the Logonid record. Four new field names are needed. The following are the field names, and their lengths:

Field name	Length
COMPANY	1
LEVEL	1
PROJECT	2
SITE	1

3. The system programmer assigned to the implementation team stated that the default SVC numbers were currently being used. He recommended that numbers 237 for ALTER and 236 for VALD be used.

Revised: October 12, 1984

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FIRST MODIFICATIONS)

4. Computer Operations has recommended that the ACF2 database backup take place at 3:45 p.m.

   Operations requested that all ACF2 messages roll off the master console screen when the screen fills up with messages.

   It was also recommended that users who have hard copy terminals be allowed to enter their password and new passwords in a masked area.

   All members of the Implementation Team felt that, for the time being, all users be given the authority to decompile all rules.

5. The Installation Security Officer and Staff Auditor were in agreement about the text that should be sent to users when ACF2 is in WARN mode. The message text should be:

   'YOU HAVE TEMP ACCESS ONLY, CONTACT THE ISO IF PERM ACCESS IS NEEDED'

Revised: October 12, 1984

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FIRST MODIFICATIONS)

```
ACFFDR   TITLE '-   FIELD DEFINITION RECORD'
***********************************************************************
*                                                                     *
*        LOCAL INSTALLATIONS SHOULD NOT RENUMBER ANY SKK PROVIDED     *
*        PORTIONS OF THE FDR AS ACF2 MAINTENANCE MAY BE APPLIED TO    *
*        IT IN THE FUTURE.                                            *
*                                                                     *
***********************************************************************
ACFFDR   CSECT
         @SETUP ,
*                                 GROUP
*                                   0  (DEFAULT) HEADING INFO
         @GROUP 'CANCEL/SUSPEND'    1
         @GROUP 'PRIVILEGES'        2
         @GROUP 'ACCESS'            3
         @GROUP 'MISCELLANEOUS'     4
         @GROUP 'TSO'               5
         @GROUP 'STATISTICS'        6
*
         COPY  ACFCFDE              INCLUDE ACF2 FIELD DEFS
*
*
***************************************************************
*                                                             *
*                      A C F C F D E                          *
*                                                             *
***************************************************************
*                                                             *
*    THIS PORTION OF THE FIELD DEFINITION RECORD (FDR)        *
*    DEFINES THOSE LOGONID RECORD FIELDS THAT ARE SUPPLIED    *
*    BY SKK AND ARE REQUIRED FOR ACF2 OPERATION. THE          *
*    INSTALLATION MAY CHANGE THE 'LIST' AND 'ALTER'           *
*    AUTHORITIES AND THE FIELD DISPLAY GROUPS ONLY.           *
*                                                             *
*                                                             *
*    THIS CODE IS PART OF THE ACF2 SYSTEM, A LICENSED         *
*    PROGRAM PRODUCT OF SKK, INC.                             *
*                                                             *
```

Revised: October 8, 1984

```
*****************************************************************          00190000
*                                                               *          00200000
*                                                               *          00210000
*            M A I N T E N A N C E   L O G                      *          00220000
*            ---------------------   -----                      *          00230000
*                                                               *          00240000
*  TS75896  02/18/83  REL 3.1.4                                 * TS75896 00250000
*        CORRECT CICSCL @CFDE                                   * TS75896 00260000
*                                                               * TS75896 00270000
*  TS77806  04/18/83  REL 3.1.4                                 * TS77806 00280000
*        ADDED ACC-SRCE TO CFDE'S                               * TS77806 00290000
*                                                               * TS77806 00300000
*  TS77263  04/18/83  REL 3.1.4                                 * TS77263 00310000
*        ADDED TSORBA TO CFDE'S                                 * TS77263 00320000
*                                                               * TS77263 00330000
*---------------------------------------------------------------*          00340000
*                                                               * TS75360 00350000
*  TS75360  12/21/83  REL 4.0.0                                 * TS75360 00360000
*                                                               * TS75360 00370000
*        ADDED UADSINDX, LGN-INDX, OID, AND OID-ALL             * TS75360 00380000
*                                                               * TS79135 00390000
*  TS79135  02/14/84  REL 4.0.0                                 * TS79135 00400000
*                                                               * TS79135 00410000
*        ADDED MAINT FIELD @CFDE                                * TS79135 00420000
*                                                               * TS73994 00430000
*  TS73994  04/16/84  REL 4.0.0                                 * TS73994 00440000
*                                                               * TS73994 00450000
*      - SIMPLIFIED CODING OF @CFDE MACROS BY ALLOWING          * TS73994 00460000
*        RRTN= AND PRTN= TO DEFAULT IN MOST CASES               * TS73994 00470000
*                                                               * TS77555 00480000
*  TS77555  04/16/84  REL 4.0.0                                 * TS77555 00490000
*                                                               * TS77555 00500000
*      - SPECIFIED MINDAYS VALIDATION ROUTINE FOR 'PASSWORD'    * TS77555 00510000
*        FIELD                                                  * TS77555 00520000
*                                                               * TS77555 00530000
*      - PREVENT THE ASSIGNMENT OF NEGATIVE VALUES TO           * TS77555 00540000
*        SELECTED BINARY DATA ITEMS VIA VALIDATION-2 RTN14      * TS77555 00550000
*                                                               * TS77555 00560000
*  TS78019  05/14/84  REL 4.0.0                                 * TS78019 00570000
*                                                               * TS78019 00580000
*      - ADDED NEW FIELD MON-LOG                                * TS78019 00590000
*                                                               * TS78019 00600000
*  TS75222  06/26/84  REL 4.0.0                                 * TS75222 00610000
*                                                               * TS75222 00620000
*        ADDED NEW CICSKEYX FIELD TO HANDLE SECURITY KEY        * TS75222 00630000
*        EXTENSIONS FOR CICS 1.6                                * TS75222 00640000
*                                                               * TS75222 00650000
*****************************************************************          00660000
*                                                                          00670000
  @CFDE  ACC-CNT,LIDACCNT,BINARY,LIST=ALL,GROUP=3,FLAGS=LIMIT,           X00680000
```

```
            VRTN2=14                                                    TS77555 00690000
     @CFDE  ACC-DATE,LIDADATE,PACKED,LIST=ALL,GROUP=3,                          X00700000
            FLAGS=LIMIT                                                         00710000
     @CFDE  ACC-SRCE,LIDXSRCE,CHAR,LIST=ALL,GROUP=3,FLAGS=LIMIT         TS77806 00720000
     @CFDE  ACC-TIME,LIDATIME,TIMEBIN,LIST=ALL,GROUP=3,FLAGS=LIMIT              00730000
     @CFDE  ACCOUNT,LIDTFLAG,BIT,ALTER=SECURITY,                                X00740000
            LIST=SECURITY+ACCOUNT+AUDIT,                                        X00750000
            FLAGS=NULL+RESTRICT,BITMAP=LIDTACT,GROUP=2                          00760000
     @CFDE  ACCTPRIV,LIDTFLG3,BIT,BITMAP=LIDT3ACC,LIST=ALL,                     X00770000
            ALTER=SECURITY,FLAGS=NULL,GROUP=5                                   00780000
     @CFDE  ALLCMDS,LIDTFLG1,BIT,BITMAP=LIDT1BYP,LIST=ALL,                      X00790000
            ALTER=SECURITY+ACCOUNT,FLAGS=NULL,GROUP=5                           00800000
     @CFDE  ATTR2,LIDTAT2,HEX,LIST=ALL,FLAGS=NULL,                              X00810000
            ALTER=SECURITY+ACCOUNT,GROUP=5                                      00820000
     @CFDE  AUDIT,LIDTFLAG,BIT,ALTER=SECURITY,                                  X00830000
            LIST=SECURITY+ACCOUNT+AUDIT,                                        X00840000
            FLAGS=NULL+RESTRICT,BITMAP=LIDTAUD,GROUP=2                          00850000
1a   @CFDE  AUTODUMP,LIDMFLG,BIT,ALTER=SECURITY+LEADER,LIST=ALL,      TLC0384X00860000
            FLAGS=NULL+RESTRICT,BITMAP=LIDMADMP,GROUP=2                         00870000
     @CFDE  CANCEL,LIDCFLAG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,                X00880000
            FLAGS=NULL,BITMAP=LIDCCAN,PRTN=6,RRTN=3,GROUP=1                     00890000
     @CFDE  CHAR,LIDCHAR,CHAR,LIST=ALL,ALTER=ALL-AUDIT,                         X00900000
            FLAGS=NULL+SPECIAL+LIMIT,PRTN=7,RRTN=7,GROUP=5                      00910000
     @CFDE  CICS,LIDM2FLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,                  X00920000
            FLAGS=NULL,BITMAP=LIDM2CIC,GROUP=2                                  00930000
     @CFDE  CICSCL,LIDCOPCL,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL,        TS72813X00940000
            FLAGS=NULL,GROUP=4                                          TS75896 00950000
     @CFDE  CICSID,LIDCOPID,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT,       TS72813X00960000
            FLAGS=NULL,GROUP=4                                          TS72813 00970000
     @CFDE  CICSKEY,LIDCOPKY,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL,       TS72813X00980000
            FLAGS=NULL,GROUP=4                                          TS72813 00990000
     @CFDE  CICSKEYX,LIDCOPKX,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL,      S75222X01000000
            FLAGS=NULL,GROUP=4                                          TS75222 01010000
     @CFDE  CICSPRI,LIDCOPPR,BINARY,ALTER=SECURITY+ACCOUNT,             TS72813X01020000
            LIST=ALL,FLAGS=NULL,GROUP=4,                                TS72813X01030000
            VRTN2=14                                                    TS77555 01040000
     @CFDE  CICSRSL,LIDCOPRL,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL,               X01050000
            FLAGS=NULL,GROUP=4                                                  01060000
1a   @CFDE  CMD-LONG,LIDTFLG3,BIT,BITMAP=LIDT3CMD,LIST=ALL,                    X01070000
            ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5,                      TLC0384X01080000
            FLAGS=NULL+LIMIT                                                    01090000
     @CFDE  CONSULT,LIDTFLAG,BIT,ALTER=SECURITY+ACCOUNT,                        X01100000
            LIST=SECURITY+ACCOUNT+AUDIT+CONSULT,                                X01110000
            FLAGS=NULL,BITMAP=LIDTCONS,GROUP=2                                  01120000
     @CFDE  CSDATE,LIDCDATE,PACKED,LIST=SECURITY+ACCOUNT+AUDIT,                 X01130000
            FLAGS=NULL,GROUP=1                                                  01140000
     @CFDE  CSWHO,LIDCWHO,CHAR,LIST=SECURITY+ACCOUNT+AUDIT,                     X01150000
            FLAGS=NULL,GROUP=1                                                  01160000
     @CFDE  DFT-DEST,LIDTDRMT,CHAR,LIST=ALL,FLAGS=NULL+LIMIT,                   X01170000
            ALTER=SECURITY+ACCOUNT,GROUP=5                                      01180000
```


TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FIRST MODIFICATIONS)

```
      @CFDE  DFT-PFX,LIDTPPFX,CHAR,LIST=ALL,ALTER=ALL-AUDIT,                X01190000
                  FLAGS=NULL+LIMIT,GROUP=5                              TS73870 01200000
      @CFDE  DFT-SOUT,LIDTSOUT,CHAR,LIST=ALL,                               X01210000
                  ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                   01220000
      @CFDE  DFT-SUBC,LIDTSUBC,CHAR,LIST=ALL,                               X01230000
                  ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                   01240000
      @CFDE  DFT-SUBH,LIDTSUBH,CHAR,LIST=ALL,                               X01250000
                  ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                   01260000
      @CFDE  DFT-SUBM,LIDTSUBM,CHAR,LIST=ALL,                               X01270000
                  ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                   01280000
      @CFDE  DSNSCOPE,LIDSSCOP,CHAR,ALTER=SECURITY,                         X01290000
                  LIST=ALL-USER,                                            X01300000
                  FLAGS=NULL+RESTRICT,PRTN=10,RRTN=10,GROUP=2                01310000
1a    @CFDE  DUMPAUTH,LIDMFLG,BIT,ALTER=SECURITY+LEADER,LIST=ALL,         TLC0384X01320000
                  FLAGS=NULL+RESTRICT,BITMAP=LIDMRDMP,GROUP=2                01330000
1a    @CFDE  EXPIRE,LIDEXPDT,PACKED,ALTER=SECURITY+ACCOUNT+LEADER,        TS72813X01340000
                  LIST=ALL,FLAGS=NULL,GROUP=2                           TS72813 01350000
      @CFDE  IDLE,LIDIDLE,BINARY,LIST=ALL,ALTER=SECURITY+ACCOUNT,           X01360000
                  FLAGS=NULL+LIMIT,GROUP=4,                                 X01370000
                  VRTN2=14                                              TS77555 01380000
      @CFDE  IDMS,LIDMAUTH,BIT,ALTER=SECURITY,LIST=ALL,                 IDMS200X01390000
                  FLAGS=NULL,PRTN=3,RRTN=3,GROUP=2,BITMAP=LIDMAIDM      IDMS200 01400000
      @CFDE  IMS,LIDM2FLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,              X01410000
                  FLAGS=NULL,BITMAP=LIDM2IMS,GROUP=2                         01420000
      @CFDE  INTERCOM,LIDTFLG2,BIT,BITMAP=LIDT2INT,LIST=ALL,                X01430000
                  ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                   01440000
1a    @CFDE  JCL,LIDTFLG3,BIT,BITMAP=LIDT3JCL,LIST=ALL,GROUP=5,FLAGS=NULL,X01450000
                  ALTER=SECURITY+ACCOUNT+LEADER                         TLC0384 01460000
      @CFDE  JOB,LIDM2FLG,BIT,BITMAP=LIDM2JOB,                          TS72379X01470000
1a                ALTER=SECURITY+ACCOUNT+LEADER,FLAGS=NULL,             TS72379X01480000
                  GROUP=2,LIST=ALL                                      TS72379 01490000
      @CFDE  JOBFROM,LIDMUSAS,BIT,BITMAP=LIDMUSID,                      TS72813X01500000
                  ALTER=SECURITY,LIST=ALL,FLAGS=NULL+RESTRICT,          TS72813X01510000
                  GROUP=2                                               TS72813 01520000
      @CFDE  LEADER,LIDTFLAG,BIT,ALTER=SECURITY+ACCOUNT,                    X01530000
                  LIST=SECURITY+ACCOUNT+AUDIT+LEADER+CONSULT,                X01540000
                  FLAGS=NULL,BITMAP=LIDTLDR,GROUP=2                          01550000
      @CFDE  LGN-ACCT,LIDTFLG1,BIT,BITMAP=LIDT1ACC,LIST=ALL,FLAGS=NULL,     X01560000
                  ALTER=SECURITY+ACCOUNT,GROUP=5                             01570000
      @CFDE  LGN-INDX,LIDTFLG4,BIT,BITMAP=LIDT4IND,LIST=ALL,FLAGS=NULL,     X01580000
                  ALTER=SECURITY+ACCOUNT,GROUP=5                             01590000
      @CFDE  LGN-MSG,LIDTFLG1,BIT,BITMAP=LIDT1MSG,LIST=ALL,FLAGS=NULL,      X01600000
                  ALTER=SECURITY+ACCOUNT,GROUP=5                             01610000
1a    @CFDE  LGN-PERF,LIDTFLG1,BIT,BITMAP=LIDT1PER,LIST=ALL,FLAGS=NULL,     X01620000
                  ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5                 TLC0384 01630000
      @CFDE  LGN-PROC,LIDTFLG1,BIT,BITMAP=LIDT1PRC,LIST=ALL,FLAGS=NULL,     X01640000
1a                ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5                 TLC0384 01650000
      @CFDE  LGN-RCVR,LIDTFLG3,BIT,BITMAP=LIDT3RVR,FLAGS=NULL+LIMIT,        X01660000
1a                LIST=ALL,ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5        TLC0384 01670000
      @CFDE  LGN-SIZE,LIDTFLG1,BIT,BITMAP=LIDT1SIZ,LIST=ALL,FLAGS=NULL,     X01680000
```

```
1a                ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5                TLC0384 01690000
   @CFDE  LGN-TIME,LIDTFLG1,BIT,BITMAP=LIDT1TIM,LIST=ALL,FLAGS=NULL,    X01700000
1a                ALTER=ACCOUNT+SECURITY+LEADER,GROUP=5                TLC0384 01710000
   @CFDE  LGN-UNIT,LIDTFLG1,BIT,BITMAP=LIDT1UNT,LIST=ALL,FLAGS=NULL,    X01720000
1a                ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5                TLC0384 01730000
   @CFDE  LID,LIDLID,CHAR,LIST=ALL                                                01740000
   @CFDE  LIDSCOPE,LIDASCOP,CHAR,ALTER=SECURITY,                                  X01750000
                LIST=ALL-USER,                                                    X01760000
                FLAGS=NULL+RESTRICT,PRTN=10,RRTN=10,GROUP=2                        01770000
   @CFDE  LINE,LIDLINE,CHAR,LIST=ALL,ALTER=ALL-AUDIT,                             X01780000
                FLAGS=NULL+SPECIAL+LIMIT,PRTN=7,RRTN=7,GROUP=5                     01790000
   @CFDE  LOGSHIFT,LIDM3FLG,BIT,ALTER=SECURITY,LIST=ALL,                TS73827X01800000
                FLAGS=NULL+RESTRICT,BITMAP=LIDM3SFT,GROUP=2                        01810000
   @CFDE  MAIL,LIDTFLG2,BIT,BITMAP=LIDT2MAL,LIST=ALL,                             X01820000
                ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                           01830000
   @CFDE  MAINT,LIDFLAG5,BIT,BITMAP=LID5MAIN,LIST=ALL,                            X01840000
                ALTER=SECURITY,FLAGS=RESTRICT+NULL,GROUP=2                         01850000
1a @CFDE  MAXDAYS,LIDNDAYS,BINARY,ALTER=SECURITY+ACCOUNT+LEADER,                  X01860000
                LIST=ALL,FLAGS=NULL,GROUP=4,                         TLC0384X01870000
                VRTN2=14                                             TS77555 01880000
1a @CFDE  MINDAYS,LIDMINDY,BINARY,ALTER=SECURITY+ACCOUNT+LEADER,                  X01890000
                LIST=ALL,FLAGS=NULL,GROUP=4,                         TS73851X01900000
                VRTN2=14                                             TS77555 01910000
   @CFDE  MODE,LIDTFLG2,BIT,BITMAP=LIDT2MOD,LIST=ALL,                             X01920000
                ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                           01930000
   @CFDE  MON-LOG,LIDCFLAG,BIT,ALTER=SECURITY,LIST=SECURITY+AUDIT,                X01940000
                FLAGS=NULL,BITMAP=LIDCMLOG,PRTN=6,RRTN=3,GROUP=1                   01950000
   @CFDE  MONITOR,LIDCFLAG,BIT,ALTER=SECURITY,LIST=SECURITY+AUDIT,                X01960000
                FLAGS=NULL,BITMAP=LIDCMON,PRTN=6,RRTN=3,GROUP=1                    01970000
   @CFDE  MOUNT,LIDTFLG3,BIT,BITMAP=LIDT3MNT,LIST=ALL,                           X01980000
                ALTER=SECURITY+ACCOUNT,GROUP=5,                                   X01990000
                FLAGS=NULL+LIMIT                                                   02000000
   @CFDE  MSGID,LIDTFLG2,BIT,BITMAP=LIDT2MSG,LIST=ALL,                           X02010000
                ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                           02020000
   @CFDE  MUSASS,LIDMUSAS,BIT,BITMAP=LIDMUMUS,ALTER=SECURITY,           TS72813X02030000
                LIST=ALL,FLAGS=NULL+RESTRICT,GROUP=2                    TS72813 02040000
   @CFDE  MUSOPT,LIDMUOPT,CHAR,ALTER=SECURITY,LIST=ALL,                 IDMS200X02050000
                FLAGS=NULL,PRTN=1,RRTN=1,GROUP=4                        IDMS200 02060000
   @CFDE  MUSPGM,LIDMUPGM,CHAR,ALTER=SECURITY,LIST=ALL,                 IDMS200X02070000
                FLAGS=NULL,PRTN=1,RRTN=1,GROUP=4                        IDMS200 02080000
   @CFDE  NAME,LIDNAME,CHAR,ALTER=SECURITY+ACCOUNT,                               X02090000
                LIST=ALL,FLAGS=NULL,GROUP=0                                        02100000
   @CFDE  NO-SMC,LIDMUSAS,BIT,BITMAP=LIDMUSMC,                          TS72813X02110000
                ALTER=SECURITY,LIST=ALL,                                TS72813X02120000
                FLAGS=NULL+RESTRICT,GROUP=2                             TS72813 02130000
   @CFDE  NO-STORE,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                           X02140000
                FLAGS=NULL+RESTRICT,BITMAP=LIDMNSTO,GROUP=2                        02150000
   @CFDE  NON-CNCL,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                           X02160000
                FLAGS=NULL+RESTRICT,BITMAP=LIDMNCNL,GROUP=2                        02170000
   @CFDE  NOTICES,LIDTFLG2,BIT,BITMAP=LIDT2NOT,LIST=ALL,                         X02180000
```

```
                ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                    02190000
      @CFDE     OID,LIDTFLG4,BIT,BITMAP=LIDT4OID,LIST=ALL,                  X02200000
                ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                   02210000
      @CFDE     OID-ALL,LIDTFLG4,BIT,BITMAP=LIDT4ALL,LIST=ALL,              X02220000
                ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                   02230000
      @CFDE     OPERATOR,LIDTFLG3,BIT,BITMAP=LIDT3OPR,LIST=ALL,             X02240000
                ALTER=SECURITY,FLAGS=NULL,GROUP=5                           02250000
      @CFDE     PASSWORD,LIDPSWD,CHEN,ALTER=SECURITY+ACCOUNT+USER,          X02260000
                FLAGS=NEVER,PRTN=5,VRTN1=05                       TS77555 02270000
      @CFDE     PAUSE,LIDTFLG2,BIT,BITMAP=LIDT2PAU,LIST=ALL,                X02280000
                ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                    02290000
      @CFDE     PGM,LIDRSUPB,CHAR,LIST=ALL,   DUPLICATE OF 'PROGRAM'  TS73928X02300000
                ALTER=SECURITY+ACCOUNT,FLAGS=NULL,PRTN=10, (NO RRTN)        X02310000
                GROUP=2                                                     02320000
      @CFDE     PHONE,LIDPHONE,CHAR,ALTER=SECURITY+ACCOUNT+LEADER,          X02330000
                LIST=ALL,FLAGS=NULL,GROUP=0                                 02340000
1a    @CFDE     PMT-ACCT,LIDTFLG4,BIT,BITMAP=LIDT4PAC,LIST=ALL,FLAGS=NULL,  X02350000
                ALTER=ACCOUNT+SECURITY+LEADER,GROUP=5              TLC0384 02360000
1a    @CFDE     PMT-PROC,LIDTFLG4,BIT,BITMAP=LIDT4PPR,LIST=ALL,FLAGS=NULL,  X02370000
                ALTER=ACCOUNT+SECURITY+LEADER,GROUP=5              TLC0384 02380000
      @CFDE     PREFIX,LIDPFX,CHAR,ALTER=SECURITY,LIST=ALL,                 X02390000
                FLAGS=RESTRICT,PRTN=9,RRTN=1,GROUP=4                        02400000
      @CFDE     PROGRAM,LIDRSUPB,CHAR,LIST=ALL,                             X02410000
                ALTER=SECURITY+ACCOUNT,FLAGS=NULL,PRTN=10,RRTN=10,          X02420000
                GROUP=2                                                     02430000
      @CFDE     PROMPT,LIDTFLG2,BIT,BITMAP=LIDT2PRO,LIST=ALL,               X02440000
                ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                    02450000
      @CFDE     PSWD-DAT,LIDIPDAT,PACKED,ALTER=SECURITY,LIST=ALL,           X02460000
                FLAGS=LIMIT,GROUP=6                                         02470000
1a    @CFDE     PSWD-EXP,LIDM2FLG,BIT,BITMAP=LIDM2PXP,GROUP=1,    TS72573X02480000
                LIST=ALL,FLAGS=NULL,ALTER=SECURITY+LEADER          TS72813 02490000
      @CFDE     PSWD-TOD,LIDPSTOD,TOD,LIST=ALL,GROUP=6,FLAGS=LIMIT          02500000
      @CFDE     PSWD-VIO,LIDIPSD,BINARY,ALTER=SECURITY,LIST=ALL,            X02510000
                FLAGS=LIMIT,GROUP=6,                                        X02520000
                VRTN2=14                                          TS77555 02530000
      @CFDE     READALL,LIDM2FLG,BIT,BITMAP=LIDM2RDA,             TS73833X02540000
                LIST=ALL,ALTER=SECURITY,FLAGS=NULL+RESTRICT,      TS73833X02550000
                GROUP=2                                           TS73833 02560000
      @CFDE     RECOVER,LIDTFLG3,BIT,BITMAP=LIDT3RCV,                       X02570000
                LIST=ALL,ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,                  X02580000
                GROUP=5                                                     02590000
      @CFDE     REFRESH,LIDFLAG5,BIT,ALTER=SECURITY,                        X02600000
                LIST=SECURITY+ACCOUNT+AUDIT,                                X02610000
                FLAGS=NULL+RESTRICT,BITMAP=LID5REFR,GROUP=2                 02620000
      @CFDE     RESTRICT,LIDMFLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,       X02630000
                FLAGS=NULL,BITMAP=LIDMRST,GROUP=2                           02640000
      @CFDE     RULEVLD,LIDM2FLG,BIT,BITMAP=LIDM2VLD,             TS73849X02650000
                LIST=ALL,ALTER=SECURITY,FLAGS=NULL+RESTRICT,      TS73849X02660000
                GROUP=2                                           TS73849 02670000
      @CFDE     SCPLIST,LIDSCPL,CHAR,LIST=ALL-USER,               TS73800X02680000
```

```
                ALTER=SECURITY,FLAGS=RESTRICT+NULL,                    TS73800X02690000
                GROUP=2                                                TS73800 02700000
        @CFDE   SEC-VIO,LIDSECV,BINARY,ALTER=SECURITY,                         X02710000
                LIST=SECURITY+ACCOUNT+AUDIT,                           X02720000
                FLAGS=LIMIT,GROUP=6,                                   X02730000
                VRTN2=14                                               TS77555 02740000
        @CFDE   SECURITY,LIDTFLAG,BIT,ALTER=SECURITY,                  X02750000
                LIST=SECURITY+ACCOUNT+AUDIT,                           X02760000
                FLAGS=NULL+RESTRICT,BITMAP=LIDTSEC,GROUP=2              02770000
        @CFDE   SHIFT,LIDSHIFT,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,   TS73827X02780000
                FLAGS=NULL,GROUP=4                                     TS73827 02790000
        @CFDE   SOURCE,LIDSRCE,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,           X02800000
                FLAGS=NULL,GROUP=4                                      02810000
        @CFDE   STC,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,               X02820000
                FLAGS=NULL+RESTRICT,BITMAP=LIDMSTC,GROUP=2              02830000
        @CFDE   SUBAUTH,LIDMFLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,           X02840000
                FLAGS=NULL,BITMAP=LIDMRSTA,GROUP=2                      02850000
        @CFDE   SUSPEND,LIDCFLAG,BIT,ALTER=SECURITY+ACCOUNT+LEADER,    X02860000
                LIST=ALL,FLAGS=NULL,BITMAP=LIDCSUS,PRTN=6,RRTN=3,GROUP=1 02870000
        @CFDE   TAPE-BLP,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,          X02880000
                FLAGS=NULL+RESTRICT,BITMAP=LIDMBLP,GROUP=2              02890000
        @CFDE   TAPE-LBL,LIDM2FLG,BIT,ALTER=SECURITY,LIST=ALL,         X02900000
                FLAGS=NULL+RESTRICT,BITMAP=LIDM2PBL,GROUP=2             02910000
1a      @CFDE   TRACE,LIDCFLAG,BIT,ALTER=SECURITY+LEADER,              TLC0384X02920000
                LIST=SECURITY+AUDIT,FLAGS=NULL,BITMAP=LIDCTRC,         X02930000
                GROUP=1                                                 02940000
1a      @CFDE   TSO,LIDM2FLG,BIT,BITMAP=LIDM2TSO,FLAGS=NULL,          TS72813X02950000
                ALTER=SECURITY+ACCOUNT+LEADER,LIST=ALL,                TS72813X02960000
                GROUP=2                                                TS72813 02970000
1a & 1b @CFDE   TSO-TRC,LIDCFLAG,BIT,ALTER=SECURITY+LEADER,                    X02980000
                LIST=SECURITY+AUDIT,FLAGS=NULL,BITMAP=LIDCTSO,         X02990000
                GROUP=1                                                 03000000
1a      @CFDE   TSOACCT,LIDACCT,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT+LEADER, X03010000
                FLAGS=NULL+LIMIT,GROUP=5                               TLC0384 03020000
        @CFDE   TSOCMDS,LIDTCMDS,CHAR,ALTER=SECURITY+ACCOUNT,                  X03030000
                LIST=ALL,FLAGS=NULL,GROUP=5                             03040000
        @CFDE   TSOFSCRN,LIDTFLG4,BIT,BITMAP=LIDT4FSC,LIST=ALL,                X03050000
                ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5               03060000
1a      @CFDE   TSOPERF,LIDPERF,BINARY,LIST=ALL,FLAGS=NULL+LIMIT,              X03070000
                ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5,                 X03080000
                VRTN2=14                                               TS77555 03090000
        @CFDE   TSOPROC,LIDPROC,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT,          X03100000
                FLAGS=NULL+LIMIT,GROUP=5                                03110000
        @CFDE   TSORBA,LIDTRBA,HEX,ALTER=SECURITY,GROUP=5,             TS77263X03120000
                LIST=SECURITY                                          TS77263 03130000
1a      @CFDE   TSORGN,LIDSIZE,BINARY,LIST=ALL,ALTER=SECURITY+ACCOUNT+LEADER,X03140000
                FLAGS=NULL+LIMIT,GROUP=5,                              X03150000
                VRTN2=14                                               TS77555 03160000
1a      @CFDE   TSOSIZE,LIDTMAXS,BINARY,LIST=ALL,GROUP=5,                      X03170000
                ALTER=SECURITY+ACCOUNT+LEADER,FLAGS=NULL+LIMIT,         X03180000
```

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```
                VRTN2=14                                                TS77555 03190000
1a @CFDE  TSOTIME,LIDTTIME,BINARY,LIST=ALL,FLAGS=NULL+LIMIT,                    X03200000
                ALTER=SECURITY+ACCOUNT+LEADER,GROUP=5,                  TLC0384X03210000
                VRTN2=14                                                TS77555 03220000
1a @CFDE  TSOUNIT,LIDTUNIT,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT+LEADER,X03230000
                FLAGS=NULL+LIMIT,GROUP=5                                        03240000
   @CFDE  UADSINDX,LIDXINDX,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,               X03250000
                FLAGS=NULL+LIMIT,GROUP=5                                        03260000
   @CFDE  UID,PSEUDO,CHAR,LIST=ALL,RRTN=6,FLAGS=SPECIAL                         03270000
   @CFDE  UIDSCOPE,LIDUSCOP,CHAR,ALTER=SECURITY,                                X03280000
                LIST=ALL-USER,                                                  X03290000
                FLAGS=NULL+RESTRICT,PRTN=10,RRTN=10,GROUP=2                     03300000
   @CFDE  UPD-TOD,LIDLUPT,TOD,LIST=ALL,GROUP=6,FLAGS=LIMIT                      03310000
   @CFDE  USER,LIDTFLAG,BIT,ALTER=SECURITY+ACCOUNT,                             X03320000
                LIST=0,FLAGS=NEVER,BITMAP=LIDTUSR,GROUP=2                       03330000
   @CFDE  VLD-ACCT,LIDTFLG4,BIT,BITMAP=LIDT4ACC,LIST=ALL,                       X03340000
                ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                       03350000
   @CFDE  VLD-PROC,LIDTFLG4,BIT,BITMAP=LIDT4PRC,LIST=ALL,                       X03360000
                ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                       03370000
   @CFDE  WTP,LIDTFLG2,BIT,BITMAP=LIDT2WTP,LIST=ALL,                            X03380000
                ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                        03390000
   @CFDE  ZONE,LIDZONE,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,    TS73827X03400000
                FLAGS=NULL,GROUP=4                              TS73827 03410000
*                                                                               03420000
*                                                                               03430000
*****************************************************************               03440000
*                                                               *               03450000
*          END OF ACF2 DEFINED LOGONID FIELDS                   *               03460000
*                                                               *               03470000
*****************************************************************               03480000
*                                                                               03490000
*                                                                               00210000
```


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```
         COPY  USERCFDE          INCLUDE USER DEFINITIONS                 00220000
*                                                                  EN00008 00010000
*                                                                  EN00008 00020000
********************************************************************EN00008 00030000
********************************************************************EN00008 00040000
**                                                              **  EN00008 00050000
**                                                              **  EN00008 00060000
**              U S E R C F D E                                 **  EN00008 00070000
**                                                              **  EN00008 00080000
**       THESE ARE THE @CFDE FDR MACROS FOR THE USER DEFINED    **  EN00008 00090000
**       FIELDS IN THE LOGONID RECORD. FOR EACH @CFDE MACRO     **  EN00008 00100000
**       SPECIFIED HERE A CORRESPONDING FIELD MUST BE           **  EN00008 00110000
**       DEFINED IN THE USERLID MODULE TO BE INCLUDED IN THE    **  EN00008 00120000
**       LOGONID RECORD.                                        **  EN00008 00130000
**                                                              **  EN00008 00140000
********************************************************************EN00008 00150000
********************************************************************EN00008 00160000
   @CFDE COMPANY,LIDUCOM,CHAR,ALTER=ACCOUNT+SECURITY,LIST=ALL   TLC0384X00160100
            RRTN=1,GROUP=4                                      TLC0384 00160200
2  @CFDE LEVEL,LIDULEVL,CHAR,ALTER=ACCOUNT+SECURITY,LIST=ALL    TLC0384X00160300
            RRTN=1,GROUP=4                                      TLC0384 00160400
   @CFDE PROJECT,LIDUPROJ,CHAR,ALTER=ACCOUNT+SECURITY,LIST=ALL  TLC0384X00160500
            RRTN=1,GROUP=4                                      TLC0384 00160600
   @CFDE SITE,LIDSITE,CHAR,ALTER=ACCOUNT+SECURITY,LIST=ALL      TLC0384X00160700
            RRTN=1,GROUP=4                                      TLC0384 00160800
         EJECT ,                                                        00230000
********************************************************************  00240000
*                                                                      00250000
*   THE CSVC ENTRY DEFINES THE TWO SVC NUMBERS THAT ARE                00260000
*   DEDICATED FOR ACF2 USE.                                            00270000
*                                                                      00280000
********************************************************************  00290000
****   @CSVC  ALTER=222,VALD=221   THESE WERE THE DEFAULTS  * TLC0384 * 00290100
3       @CSVC  ALTER=237,VALD=236                                       00300000
```


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```
*                                                                    00310000
*****************************************************************    00320000
*                                                            TS72813 00330000
*   SPECIFY DEFAULT ACF2 CLUSTER/BACKUP DATASET NAMES WITH   TS72813 00340000
*   GROUP NAME OF PRIMARY.                                   TS72813 00350000
*                                                            TS72813 00360000
*      S ACF2 -OR-  S ACF2,PARM='DDSN(PRIMARY)'              TS72813 00370000
*                                                            TS72813 00380000
*   TO DYNAMICALLY ALLOCATE THE SPECIFIED PRIMARY DATASETS   TS72813 00390000
*                                                            TS72813 00400000
*****************************************************************    00410000
        @DDSN PRIMARY,                 ** DEFAULT GROUP NDX  TS72813X00420000
              RULE='SYS1.ACF.RULES',   ** RULES CLUSTER      TS72813X00430000
              LID='SYS1.ACF.LOGONIDS', ** LOGONID CLUSTER    TS72813X00440000
              INFO='SYS1.ACF.INFOSTG', ** GEN RESOURCE CLSTR TS72813X00450000
              BRULE='SYS1.ACF.BKRULES', ** RULES BACKUP      TS72813X00460000
              BLID='SYS1.ACF.BKLIDS',  ** LOGONIDS BACKUP    TS72813X00470000
              BINFO='SYS1.ACF.BKINFO'  ** RESOURCE BACKUP    TS72813 00480000
*                                                                    00490000
*****************************************************************    00500000
*                                                            TS72813 00510000
*   SPECIFY ALTERNATE ACF2 CLUSTER/BACKUP DATASET NAMES      TS72813 00520000
*   WITH A GROUP NAME OF ALT.                                TS72813 00530000
*                                                            TS72813 00540000
*      S ACF2,PARM='DDSN(ALT)'                               TS72813 00550000
*                                                            TS72813 00560000
*   TO DYNAMICALLY ALLOCATE THE SPECIFIED DATASETS.          TS72813 00570000
*                                                            TS72813 00580000
*****************************************************************    00590000
        @DDSN ALT,                     ** ALTERNATE GROUP NDXTS72813X00600000
              RULE='SYS1.ACF.ALTRULES', ** ALT RULES CLUSTER TS72813X00610000
              LID='SYS1.ACF.ALTLIDS',  ** ALT LOGONID CLUSTERTS72813X00620000
              INFO='SYS1.ACF.ALTINFO', ** ALT RESOURCE CLUSTETS72813X00630000
              BRULE='SYS1.ACF.ABKRULES', ** ALT RULES BACKUP TS72813X00640000
              BLID='SYS1.ACF.ABKLIDS', ** ALT LOGONID BACKUP TS72813X00650000
              BINFO='SYS1.ACF.ABKINFO' ** ALT RESOURCE BACKUPTS72813 00660000
*                                                                    00670000
*****************************************************************    00680000
*                                                                    00690000
*   THE HEADER ENTRY DEFINES THE FORMAT OF THE FIRST LINE            00700000
*   OF THE LOGONID DISPLAY OF THE ACF COMMAND.                       00710000
*                                                                    00720000
*****************************************************************    00730000
        @HEADER LID,UID,NAME,PHONE                                   00740000
```

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```
*                                                                      00750000
************************************************************************00760000
*                                                                      00770000
*   SPECIFY @MLID MACROS TO DESCRIBE THE VARIOUS LOGONID RECORD        00780000
*   COMPRESSION ALGORITHMS FOR THE DIFFERENT MULTI USER SINGLE         00790000
*   ADDRESS SPACE SYSTEMS AND THEIR INDIVIDUAL REQUIREMENTS.           00800000
*   THE ACF2 @MLID SPECIFICATION MUST BE FIRST AND MUST NOT BE         00810000
*   MODIFIED BY THE INSTALLATION.                                      00820000
*                                                                      00830000
************************************************************************00840000
        @MLID ACF2,MLAREC,MLALENG,    NAME, START, LENGTH      EN00020X00850000
              (LIDLID,MLALID),        LOGONID                  EN00020X00860000
              (LIDNAME,MLANAME),      USER'S NAME              EN00020X00870000
              (LIDPFX,MLAPFX),        OWNED DSET PREFIX        EN00020X00880000
              (LIDSSCOP,MLASSCOP),    DSN SCOPE                EN00020X00890000
              (LIDASCOP,MLAASCOP),    LID SCOPE                EN00020X00900000
              (LIDUSCOP,MLAUSCOP),    UID SCOPE                EN00020X00910000
              (LIDSCPL,MLASCPL),      SCOP LIST NAME           TS73800X00920000
              (LIDTFLAG,MLATFLAG),    USER TYPE                EN00020X00930000
              (LIDMFLG,MLAMFLG),      MISCELLANEOUS FLAGS      EN00020X00940000
              (LIDCFLAG,MLACFLAG),    CANCEL/SUSPEND FLAGS     EN00020X00950000
              (LIDPSWD,MLAPSWD),      ENCRIPTED PASSWORD DATA  EN00020X00960000
              (LIDPSTOD,MLAPSTOD),    PASSWORD SET TIME OF DAY EN00020X00970000
              (LIDZONE,MLAZONE),      ZONE NAME FOR TIME ADJ   TS77916X00980000
              (LIDNPSWD,MLANPSWD)     NEW FORMATTED PASSWORD   TS73845 00990000
*                                                                      01000000
        @MLID CICS,MLACICS,MLACICSL,  NAME, START, LENGTH      TS77227X01010000
              (LIDCOPCL,MLACOPCL),    OPERATOR CLASS           TS77227X01020000
              (LIDCOPID,MLACOPID),    OPERATOR ID              TS77227X01030000
              (LIDCOPKY,MLACOPKY),    OPERATOR SECURITY KEY    TS77227X01040000
              (LIDCOPRL,MLACOPRL),    RESOURCE LEVEL KEY       TS77227X01050000
              (LIDCOPPR,MLACOPPR),    OPERATOR PRIORITY        TS77227X01060000
              (LIDIDLE,MLACIDLE),     MAX IDLE TIME IN MINUTES TS75717X01070000
              (LIDM2FLG,MLACAUTH),    CICS SIGNON AUTH BYTE;   TS77227X01080000
              (LIDCOPKX,MLACOPKX)     MAX IDLE TIME IN MINUTES TS75717 01090000
*                              NOTE: THIS FIELD CORRESPONDS     TS77227 01100000
*                                     TO THE @CICS AUTH= PARM   TS77227 01110000
*                                                               IDMS200 01111000
*       SPECIFY THE IDMS @MLID DEFINITION                       IDMS200 01112000
*                                                               IDMS200 01113000
        @MLID IDMS,MLAIDMS,MLAIDMSL,  NAME, START, LENGTH      IDMS200X01114000
              (LIDMAUTH,MLAIAUTH)     IDMS AUTHORIZATION BYTE  IDMS200 01115000
```

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FIRST MODIFICATIONS)

```
*                                                                      01120000
************************************************************************01130000
*                                                                      01140000
*   SPECIFY @MUSASS MACROS TO DEFINE THE MULTIUSER SINGLE              01150000
*   ADDRESS SPACE SYSTEMS THAT ARE TO HAVE SPECIAL MUSASS              01160000
*   SUPPORT.                                                           01170000
*                                                                      01180000
************************************************************************01190000
        @MUSASS   IMS,MLID=ACF2,FASTPTH=YES,CACHE=NO          TS75705 01200000
*                                                                      01210000
        @MUSASS   CICSCVT,MLID=CICS,                          TS75717X01220000
              CVTNAME=ACF##CVT,CVTCOM=YES,WORK=(0,0),         TS75717X01230000
              FASTPTH=YES,CACHE=YES,CACHE#=5                  TS75705 01240000
*                                                                      01250000
************************************************************************01260000
*                                                                      01270000
*   THE SMF ENTRY DEFINES THE RECORD NUMBERS THAT ACF2 IS              01280000
*   TO USE WHEN PRODUCING ITS SMF RECORDS.                             01290000
*                                                                      01300000
************************************************************************01310000
        @SMF  PSWD=0,        INVALID PASSWORD/AUTHORITY       ACF400 X01320000
              DSN=0,         DSN AND PROG VIO/LOG/TRACE       ACF400 X01330000
              LID=0,         LOGONID MODIFICAITON JOURNAL     ACF400 X01340000
              RULE=0,        ACCESS RULE MODIFICATION JOURNAL ACF400 X01350000
              JTRACE=0,      RESTRICTED LOGONID JOB LOG       ACF400 X01360000
              COMMAND=0,     TSO COMMAND RECORDS              ACF400 X01370000
              INFO=0,        INFO STG MODIFICATION JOURNAL    ACF400 X01380000
              RSRC=0,        RESOURCE VIO/LOG/TRACE           ACF400 X01390000
              ACF2=230,      COMBINED SMF RECORD (R400)       ACF400 X01400000
              JINIT=FIRST,   ACF2 JOB INIT IS BEFORE IEFUJI   ACF400 X01410000
              SINIT=FIRST,   ACF2 STEP INIT IS BEFORE IEFUSI  ACF400 X01420000
              JTERM=LAST     ACF2 JOB TERM IS AFTER IEFACTRT   ACF400  01430000
*                                                                      01440000
************************************************************************01450000
*                                                                      01460000
*   THE UID ENTRY DEFINES THE USER IDENTIFICATION STRING.              01470000
*                                                                      01480000
************************************************************************01490000
        @UID  LID                                                     01500000
```

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FIRST MODIFICATIONS)

```
*                                                                    01510000
********************************************************************** 01520000
*                                                                    01530000
*   THE ZEROFLD ENTRY DEFINES THE FIELDS THAT SHOULD BE ZEROED       01540000
*   OR BLANKED WHEN AN INSERT USING IS DONE ON A LOGONID RECORD.     01550000
*   CARE SHOULD BE TAKEN WHEN REMOVING NAMES FROM THE SUPPLIED       01560000
*   LIST IF THOSE ENTRIES MAY PROVIDE ADDITIONAL AUTHORITIES         01570000
*   SUCH AS SECURITY OR AUDIT OR ACCOUNT.                            01580000
*                                                                    01590000
********************************************************************** 01600000
        @ZEROFLD NAME,PHONE,UPD-TOD,SEC-VIO,OID,OID-ALL,UADSINDX,    X01610000
              PSWD-VIO,PSWD-DAT,ACC-DATE,ACC-TIME,ACC-CNT,           X01620000
              ACCTPRIV,OPERATOR,NON-CNCL,MOUNT,MAINT,                X01630000
              NO-SMC,MUSASS,JOBFROM,ACC-SRCE,TSORBA,                 X01640000
              SECURITY,LEADER,CONSULT,AUDIT,ACCOUNT,REFRESH,         X01650000
              SCPLIST,LOGSHIFT,READALL,RULEVLD,SHIFT,ZONE            01660000
        EJECT ,                                                      01670000
********************************************************************** 01680000
*                                                                    01690000
*   GENERATE THE ACFFDR CSECT                                        01700000
*                                                                    01710000
********************************************************************** 01720000
        @GENFDR ,                                                    01730000
        END                                                          01810000
```

TRUE LOCK COMPANY
ACF2 LOGONID MAP (FIRST MODIFICATIONS)

```
         MACRO                                                    ACF 20  00010000
         LIDREC &DSECT=YES,&SIZE=1024                             ACF 20  00020000
LIDREC   ACDEF &DSECT                                             ACF 20  00030000
*                                                                 ACF 20  00040000
*              MAP OF LOGONID RECORD                              ACF 20  00050000
*                                                                 ACF 400 00051000
*                                                                 ACF 400 00052000
*  LICENSE:                                                       ACF 400 00053000
*                                                                 ACF 400 00054000
*     THIS MACRO IS A PART OF THE ACF2 SYSTEM, A LICENSED         ACF 400 00055000
*     PROGRAM PRODUCT OF SKK, INC.                                ACF 400 00056000
*                                                                 ACF 400 00057000
*                                                                 ACF 400 00058000
*                                                                 ACF 20  00060000
         COPY  ACFLID              OBTAIN FIXED ACF2 LID AREA    ACF 22  00070000
*****************************************************************       00010000
*                                                                       00020000
* ACFLID - ACF2 FIXED AREA OF THE LOGONID RECORD                  ACF 22  00030000
*          NOT TO BE MODIFIED BY THE INSTALLATION                 ACF 22  00040000
*                                                                 ACF 22  00050000
*  ACFLID AND LIDREC ARE PART OF ACF2,                            ACF 310 00060000
*  A LICENSED PROGRAM PRODUCT OF SKK. INC.  (1978, 1979)          ACF 310 00070000
*                                                                 ACF 22  00080000
*****************************************************************       00090000
LIDBEGIN DS    XL320    ACF2 RESERVED SPACE                      ACF 22  00100000
LIDIFLDS DS    XL192    START OF INSTALLATION AREA               ACF 22  00110000
LIDNEWA  DS    CL320    ACF2 EXTENDED RESERVED SPACE             TS73974 00120000
LIDNEWU  DS    CL192    START OF EXTENDED INSTALLATION           TS73974 00130000
LIDBOTOM EQU   *        END OF LOGONID RECORD                    ACF 22  00140000
         ORG   LIDBEGIN START AT ACF2 FIXED AREA                 ACF 22  00150000
*                                                                       00160000
LIDLID   DS    CL8   LOGON ID - INDEX FOR THIS RECORD            ACF 20  00170000
*                                                                       00180000
LIDCFLAG DS    X     CANCEL/SUSPEND/MONITOR/TRACE FLAGS          ACF 20  00190000
LIDCCAN  EQU   X'80'   LOGONID CANCELLED                        ACF 20  00200000
LIDCSUS  EQU   X'40'   LOGONID SUSPENDED                        ACF 20  00210000
LIDCMLOG EQU   X'08'   LOGONID MONITOR LOG REQUESTED            TS78019 00220000
LIDCTSO  EQU   X'04'   LOGONID TSO COMMAND RECORDS TRACE        ACF 20  00230000
LIDCTRC  EQU   X'02'   LOGONID TRACE REQUESTED                  ACF 20  00240000
LIDCMON  EQU   X'01'   LOGONID MONITOR REQUESTED                ACF 20  00250000
*                                                                       00260000
LIDTFLAG DS    X     USER TYPE FLAGS                             ACF 20  00270000
LIDTSEC  EQU   X'80'   SECURITY OFFICER PRIVILEGES              ACF 20  00280000
LIDTACT  EQU   X'40'   ACCOUNTING PRIVILEGES                    ACF 20  00290000
LIDTAUD  EQU   X'20'   AUDITING PRIVILEGES                      ACF 20  00300000
LIDTCONS EQU   X'10'   CONSULTANT                               ACF 20  00310000
LIDTLDR  EQU   X'08'   PROJECT LEADER                           ACF 20  00320000
LIDTUSR  EQU   X'01'   NORMAL USER                              ACF 20  00330000
*                                                                       00340000
LIDMFLG  DS    X     MISCELLANEOUS FLAGS                               00350000
```

TRUE LOCK COMPANY
ACF2 LOGONID MAP (FIRST MODIFICATIONS)

```
LIDMRST  EQU   X'80'   USE RESTRICTED TO PRODUCTION SUBMITTED JOBS        00360000
LIDMNCNL EQU   X'40'   NON-CANCELLABLE FOR SECURITY REASONS              00370000
LIDMRSTA EQU   X'20'   SUBMISSION RESTRICTED TO AUTHORIZED PGMS          00380000
LIDMBLP  EQU   X'10'   BYPASS LABEL PROCESSING AUTHORIZATION FLG         00390000
LIDMNSTO EQU   X'08'   USER NOT ALLOWED TO STORE RULES                   00400000
LIDMADMP EQU   X'04'   TAKE AUTO-SVC-DUMP AT 1ST VIOLATION               00410000
LIDMRDMP EQU   X'02'   RESTRICTED DUMP AUTHORIZATION                     00420000
LIDMSTC  EQU   X'01'   LOGONID FOR STC USE ONLY                          00430000
*                                                                       00440000
LIDNDAYS DS    AL1     MAX DAYS BETWEEN PASSWORD CHANGES        ACF 20  00450000
LIDNAME  DS    CL20    NAME OF USER                             ACF 20  00460000
LIDPHONE DS    CL12    TELEPHONE NUMBER                         ACF 20  00470000
LIDLUPT  DS    XL8     TIME STAMP OF LAST UPDATE TO THIS RECORD ACF 20  00480000
LIDPSWD  DS    F       ENCODED RESULT OF PASSWORD               ACF 20  00490000
LIDPSTOD DS    XL8     TIME STAMP OF LAST PASSWORD CHANGE       ACF 20  00500000
LIDTCMDS DS    CL8     TSO COMMAND LIMITING LIST                ACF 20  00510000
LIDCDATE DS    PL4     DATE THAT LAST LIDCFLAG WAS SET          ACF 20  00520000
LIDCWHO  DS    CL8     LOGONID THAT LAST SET LIDCFLAG BIT       TS73844 00530000
LIDSECV  DS    H       ACCUMULATED COUNT OF SECURITY VIOLATIONS ACF 20  00540000
LIDIPSD  DS    H       INVALID PASSWORD COUNT ACCUMULATOR       ACF 20  00550000
LIDIPDAT DS    PL4     ON THIS DATE                             ACF 20  00560000
LIDASCOP DS    CL8     MASK LIMITING SCOPE OF SECURITY/ACCOUNT/LEADER   00570000
LIDSSCOP DS    CL8     MASK LIMITING SCOPE OF SECURITY ACCESS ONLY       00580000
LIDPFX   DS    CL8     OWNED DATASET PREFIX MASK                ACF 22  00590000
LIDADATE DS    PL4     DATE OF LAST SYSTEM ACCESS               ACF 20  00600000
LIDATIME DS    F       TIME IN .01 SECONDS OF LAST SYSTEM ACCESS        00610000
LIDACCNT DS    F       SYSTEM ACCESS COUNT                      ACF 20  00620000
LIDRSUPB DS    CL8     MASK OF SUBMITTING PROGRAMS FOR RESTICTED ACCTS  00630000
*                                                                       00640000
*-------------------------------------------------------------          00650000
*       TSO USER PROFILE SECTION                                        00660000
*-------------------------------------------------------------          00670000
LIDACCT  DS    CL40    ACCOUNT, FROM ACCT()                     ACF 20  00680000
LIDPROC  DS    CL8     PROC NAME, FROM PROC()                   ACF 20  00690000
LIDSIZE  DS    H       REGION SIZE                              ACF 20  00700000
LIDPERF  DS    X       PERFORMANCE GROUP                        ACF 20  00710000
*                                                                       00720000
LIDLINE  DS    C       LINE DELETE CHARACTER                    ACF 20  00730000
LIDLATTN EQU   X'37'      ATTN SPECIFIED AS LINE DELETE CHAR            00740000
LIDLCTLX EQU   X'18'      CTLX SPECIFIED AS LINE DELETE CHAR            00750000
*                                                                       00760000
LIDCHAR  DS    C       BACKSPACE CHARACTER                              00770000
LIDCBS   EQU   X'16'      BS SPECIFIED AS CHAR DELETE CHAR              00780000
*                                                                       00790000
LIDTFLGS DS    0XL2    ATTRIBUTE FLAGS                          ACF 20  00800000
LIDTFLG1 DS    X          LOGON SPECIFICATION FLAG              ACF 20  00810000
LIDT1ACC EQU   X'80'      ACCT OVERRIDE AT LOGON                ACF 20  00820000
LIDT1PRC EQU   X'40'      PROC OVERRIDE AT LOGON                ACF 20  00830000
LIDT1SIZ EQU   X'20'      REGION SIZE OVERRIDE AT LOGON                 00840000
LIDT1PER EQU   X'10'      PERFORMANCE OVERRIDE AT LOGON                 00850000
```

TRUE LOCK COMPANY
ACF2 LOGONID MAP (FIRST MODIFICATIONS)

```
LIDT1BYP EQU   X'08'      BYPASS COMMAND LIST AUTHORITY                    00860000
LIDT1UNT EQU   X'04'      ALLOW UNIT AT LOGON              ACF 22          00870000
LIDT1MSG EQU   X'02'      ALLOW MSGCLASS AT LOGON          ACF 22          00880000
LIDT1TIM EQU   X'01'      ALLOW TIME AT LOGON              ACF 22          00890000
*                                                                          00900000
LIDTFLG2 DS    X        ATTRIBUTE DESCRIPTION FLAGS                        00910000
LIDT2MAL EQU   X'80'       MAIL / NOMAIL                   ACF 20          00920000
LIDT2NOT EQU   X'40'       NOTICES / NONOTICES             ACF 20          00930000
LIDT2PRO EQU   X'20'       PROMPT / NOPROMPT               ACF 20          00940000
LIDT2INT EQU   X'10'       INTERCOM / NOINTERCOM           ACF 20          00950000
LIDT2PAU EQU   X'08'       PAUSE / NOPAUSE                 ACF 20          00960000
LIDT2MSG EQU   X'04'       MSGID / NOMSGID                 ACF 20          00970000
LIDT2MOD EQU   X'02'       MODE / NOMODE                   ACF 20          00980000
LIDT2WTP EQU   X'01'       WTP / NOWTP                     ACF 20          00990000
*                                                                          01000000
LIDTFLG3 DS    X        ATTRIBUTE FLAGS                    ACF 20          01010000
LIDT3OPR EQU   X'80'       OPERATOR COMMAND                ACF 20          01020000
LIDT3ACC EQU   X'40'       ACCOUNT(TSO) COMMAND            ACF 20          01030000
LIDT3JCL EQU   X'20'       JCL/SUBMIT COMMAND              ACF 20          01040000
LIDT3MNT EQU   X'10'       MOUNT AUTHORIZATION             ACF 20          01050000
LIDT3RVR EQU   X'08'       EDIT RECOVER AUTH.              ACF 21          01060000
LIDT3RCV EQU   X'04'       EDIT RECOVER PROFILE            ACF 21          01070000
LIDT3CMD EQU   X'02'       LONG FORM CMDS REQUIRED         ACF 22          01080000
LIDT3R1  EQU   X'01'       *** RESERVED ***                ACF 21          01090000
*                                                                          01100000
LIDTUNIT DS    CL8      GENERIC UNIT NAME                  ACF 20          01110000
LIDTDRMT DS    CL8      DEFAULT REMOTE DESTINATION         ACF 20          01120000
LIDTSUBH DS    C        DEFAULT SUBMIT HOLD CLASS          ACF 21          01130000
LIDTSUBC DS    C        DEFAULT SUBMIT CLASS               ACF 21          01140000
LIDTSUBM DS    C        DEFAULT SUBMIT MSGCLASS            ACF 21          01150000
LIDTSOUT DS    C        DEFAULT SYSOUT CLASS               ACF 21          01160000
LIDTMAXS DS    XL2      MAX SIZE IF NOT AUTH.              ACF 21          01170000
LIDTAT2  DS    XL2      PSCB ATR2 FIELD (PCF)              ACF 21          01180000
LIDTAT12 DS    X        PSCB ATR1 + 1 FIELD                ACF 21          01190000
*                       RESERVED BY IBM                    ACF 21          01200000
*                                                                          01210000
LIDTFLG4 DS    X        TSO FLAGS BYTE4                    ACF 22          01220000
LIDT4ACC EQU   X'80'       VALIDATE ACCOUNT(MULTI)         ACF 22          01230000
LIDT4PRC EQU   X'40'       VALIDATE PROCS                  ACF 22          01240000
LIDT4PAC EQU   X'20'       ALWAYS PROMPT FOR ACCT          ACF 22          01250000
LIDT4PPR EQU   X'10'       ALWAYS PROMPT FOR PROC          ACF 22          01260000
LIDT4OID EQU   X'08'       USER MUST ENTER OID CARD        TS75360         01270000
LIDT4ALL EQU   X'04'       USER MUST ENTER ALL CARDS       TS75360         01280000
LIDT4FSC EQU   X'02'       TSO FULLSCREEN ALLOWED          TS75360         01290000
LIDT4IND EQU   X'01'       PERMISSION BIT FOR INDEX KEYWORD                 01300000
*                                                                          01310000
LIDTTIME DS    XL2      TSO TIME ON JOBCARD                ACF 22          01320000
*                                                                          01330000
*-------------------------------------------------------------------       01340000
*                                                                          01350000
```

TRUE LOCK COMPANY
ACF2 LOGONID MAP (FIRST MODIFICATIONS)

```
LIDM2FLG DS    X       MISCELLANEOUS FLAGS                    ACF 22  01360000
LIDM2PBL EQU   X'80'      PSEUDO BLP PERMISSION               ACF 22  01370000
LIDM2IMS EQU   X'40'      STD IMS PERMISSION                  ACF 221 01380000
LIDM2CIC EQU   X'20'      STD CICS PERMISSION                 ACF 221 01390000
LIDM2TSO EQU   X'10'      STD TSO PERMISSION                  ACF 222 01400000
LIDM2JOB EQU   X'08'      STD JOB PERMISSION                  TS72379 01410000
LIDM2RDA EQU   X'04'      READALL ACCESS PERMISSION           TS73833 01420000
LIDM2VLD EQU   X'02'      READ RULES FOR EACH ACCESS          TS73849 01430000
LIDM2PXP EQU   X'01'      FORCE PSWD EXPIRED                  ACF 222 01440000
*                                                             TS77555 01450000
LIDIDLE  DS    AL1     MAX IDLE TIME (MIN) IMS.               ACF 221 01460000
*                                                             TS77555 01470000
LIDI1FLG DS    X       RESERVED FOR INSTALLATION              ACF 22  01480000
LIDI1F1  EQU   X'80'      FLAG 1                              ACF 22  01490000
LIDI1F2  EQU   X'40'      FLAG 2                              ACF 22  01500000
LIDI1F3  EQU   X'20'      FLAG 3                              ACF 22  01510000
LIDI1F4  EQU   X'10'      FLAG 4                              ACF 22  01520000
LIDI1F5  EQU   X'08'      FLAG 5                              ACF 22  01530000
LIDI1F6  EQU   X'04'      FLAG 6                              ACF 22  01540000
LIDI1F7  EQU   X'02'      FLAG 7                              ACF 22  01550000
LIDI1F8  EQU   X'01'      FLAG 8                              ACF 22  01560000
*                                                                     01570000
LIDI2FLG DS    X       RESERVED FOR INSTALLATION              ACF 22  01580000
LIDI2F1  EQU   X'80'      FLAG 1                              ACF 22  01590000
LIDI2F2  EQU   X'40'      FLAG 2                              ACF 22  01600000
LIDI2F3  EQU   X'20'      FLAG 3                              ACF 22  01610000
LIDI2F4  EQU   X'10'      FLAG 4                              ACF 22  01620000
LIDI2F5  EQU   X'08'      FLAG 5                              ACF 22  01630000
LIDI2F6  EQU   X'04'      FLAG 6                              ACF 22  01640000
LIDI2F7  EQU   X'02'      FLAG 7                              ACF 22  01650000
LIDI2F8  EQU   X'01'      FLAG 8                              ACF 22  01660000
*                                                                     01670000
LIDEXPDT DS    PL4     LOGONID USE EXPIRATION DATE            ACF 230 01680000
LIDLENEX EQU   *-LIDREC   LIDREC LENGTH WITH EXPDT            TS72140 01690000
         DS    C       RESERVED                               TS73637 01700000
LIDCOPRL DS    XL3     CICS OPERATOR RESOURCE KEY             TS73637 01710000
LIDTPPFX DS    CL7     DEFAULT TSO DSN PREFIX                 TS72173 01720000
         DS    C       RESERVED                               TS72173 01730000
LIDUSCOP DS    CL24    UID MASK TO LIMIT LID ACCESS           ACF 22  01740000
LIDSRCE  DS    CL8     SOURCE RESTRICTION GROUP               ACF 22  01750000
LIDCOPID DS    CL3     CICS OPERATOR ID                       ACF 222 01760000
LIDCOPPR DS    X       CICS OPERATOR PRIORITY                 ACF 222 01770000
LIDCOPCL DS    CL3     CICS OPERATOR CLASS                    ACF 222 01780000
LIDCOPKY DS    XL3     CICS SECURITY KEY                      ACF 222 01790000
*                                                                     01800000
LIDMUSAS DS    X       MUSASS CONTROL FLAGS, REF ASVFLAG3     ACF 222 01810000
LIDMURUL EQU   X'80'      RES-RULE UPDATE                     ACF 222 01820000
LIDMUSMC EQU   X'40'      NO STEP-MUST-COMPLETE               TS73844 01830000
LIDMUSID EQU   X'20'      //*JOBFROM USE AUTHORITY            ACF 222 01840000
LIDMUMUS EQU   X'01'      ADDRSPC IS MUSASS                   ACF 222 01850000
```

TRUE LOCK COMPANY
ACF2 LOGONID MAP (FIRST MODIFICATIONS)

```
*                                                                      01860000
LIDZONE  DS    CL3      TIME ZONE NAME                          TS73827 01870000
LIDSHIFT DS    CL8      TIME SHIFT NAME - SYS ACCESS            TS73827 01880000
LIDSCPL  DS    CL8      SCOPE LIST NAME IN DB                   TS73800 01890000
*                                                              TS77555 01900000
LIDM3FLG DS    X        MORE MISCELLANEOUS FLAGS                TS73827 01910000
LIDM3SFT EQU   X'80'       ALLOW & LOG SYS ACCESS OUTSIDE SHIFT TS73827 01920000
*                                                              TS77555 01930000
LIDMINDY DS    X        MIN DAYS BETWEEN PSWD CHANGES           TS73851 01940000
LIDNPSWD DS    CL8      NEW PASSWORD FIELD 3.1.4                       01950000
*                                                              TS77555 01960000
LIDFLAG5 DS    X        MISC. FLAGS                             TS75360 01970000
LID5MAIN EQU   X'80'       MAINT PRIVILEGE                     TS75360 01980000
LID5REFR EQU   X'40'       REFRESH PRIVILEGE                   TS77555 01990000
*                                                                      02000000
LIDCOPKX DS    CL5      CICS SECURITY KEY EXTENSIONS            TS75222 02010000
*                                                              TS75222 02020000
LIDBLEN  EQU   *-LIDLID   LENGTH OF USED SKK SECTION           ACF 20  02030000
         ORG   LIDIFLDS   RESET TO INSTALLATION AREA           ACF 22  02040000
*                                                                      02050000
*******  START OF INSTALLATION DEFINED FIELDS  *******         ACF 22  00080000
         COPY  USERLID             OBTAIN USER AREA OF LID     ACF 22  00090000
*        COPY  USERLID             IN LIDREC MACRO             ACF 22  00010000
*************************************************************  ACF 22  00020000
*                                                              ACF 22  00030000
*  USERLID - THIS SOURCE MATERIAL IS COPIED INTO THE USER      ACF 22  00040000
*            DEFINITION SECTION OF THE LOGONID RECORD 'DSECT'. ACF 22  00050000
*            THE INSTALLATION MAY REPLACE THIS MODULE OR       ACF 22  00060000
*            EDIT IN ITEMS WHICH ARE TO BE DEFINED BY @CFDE    ACF 22  00070000
*            MACRO ENTRIES IN THE ACFFDR.  THE LENGTH ATTRIBUTE ACF 22 00080000
*            OF EACH SYMBOL DEFINED HERE IS USED IN THE RELATED ACF 22 00090000
*            @CFDE MACRO EXPANSION.                            ACF 22  00100000
*                                                              ACF 22  00110000
*  NOTE -- THE TOTAL LENGTH OF ALL INSTALLATION ADDED SYMBOLS  ACF 22  00120000
*          SHOULD NOT EXCEED 192(DECIMAL), C0(HEX) BYTES.      ACF 22  00130000
*                                                              ACF 22  00140000
*************************************************************  ACF 22  00150000
LIDUCOM  DS    CL1          *** COMPANY INDICATOR              TLC0384 00150100
2 LIDULEVL DS  CL1          *** CORPORATE LEVEL                TLC0384 00150200
LIDUPROJ DS    CL2          *** PROJECT OR TEAM CODE           TLC0384 00150300
LIDSITE  DS    CL1          *** CORPORATE SITE OR AFFILIATION  TLC0384 00150400
************* END OF USERLID ********************************  ACF 22  00160000
*******  END OF INSTALLATION DEFINED FIELDS    *******         ACF 22  00100000
         AIF   ('&SIZE' EQ '512').SHORT                        TS73974 00110000
         AIF   ('&SIZE' EQ '1024').LONG                        TS73974 00120000
         MNOTE 8,'INVALID FORM SPECIFIED'                      TS73974 00130000
 LONG    ANOP                                                  TS73974 00140000
         ORG   LIDNEWA             RESET TO START OF NEW SKK AREA 73431 00150000
         COPY  ACFXLID             OBTAIN EXTENDED LID AREA    TS73974 00160000
         SPACE 1                                                       00010000
```

TRUE LOCK COMPANY
ACF2 LOGONID MAP (FIRST MODIFICATIONS)

```
* ACFXLID - ACF2 EXTENDED FIXED AREA OF THE LOGONID RECORD      TS73974 00020000
*          NOT TO BE MODIFIED BY THE INSTALLATION               TS73974 00030000
*                                                                       00040000
*  ACFXLID AND LIDREC ARE PART OF ACF2,                         ACF 310 00050000
*  A LICENSED PROGRAM PRODUCT OF SKK,. INC.  (1978, 1979)       ACF 310 00060000
*                                                                       00070000
         SPACE 1                                                       00080000
LIDXAREA DS    0XL320            ACF2 RESERVED SPACE           TS73974 00090000
LIDXSRCE DS    CL8               SOURCE OF LAST SYSTEM ACCESS  TS73974 00100000
LIDTRBA  DS    CL3               TSO RBA FIELD                 TS77263 00110000
LIDMAUTH DS    XL1               ACF2 SUPPORTED MUSASS AUTH'S  IDMS200 00120000
LIDMAIDM EQU   X'80'              STD IDMS PERMISSION           IDMS200 00130000
         DS    XL4               - RESERVED                    IDMS200 00140000
LIDMUOPT DS    CL8               MUSASS OPTIONS RECORD KEY     IDMS200 00150000
LIDMUPGM DS    CL8               MUSASS EXEC (PGM=******) NAME IDMS200 00160000
LIDXINDX DS    CL8               DEFAULT UADS TREE STRUCT NDX  TS75360 00170000
         SPACE 2                                                       00180000
LIDXBLEN EQU   *-LIDLID  LENGTH OF USED SKK SECTION           TS73974 00190000
         ORG   LIDNEWU            RESET TO EXTENDED USER AREA TS73974 00200000
         SPACE 2                                                       00210000
******   END OF EXTENDED SKK RESERVED AREA ********           TS73974 00170000
         COPY  USERXLID            OBTAIN EXTENDED USER AREA   TS73974 00180000
*        COPY  XUSERLID            IN LIDREC MACRO             ACF 22  00010000
*************************************************************** ACF 22  00020000
*                                                              ACF 22  00030000
*  USERLID - THIS SOURCE MATERIAL IS COPIED INTO THE EXTENDED           00040001
*            USER DEFINITION SECTION OF THE LOGONID RECORD DSECT.CF 22  00041001
*            THE INSTALLATION MAY REPLACE THIS MODULE OR       ACF 22  00060000
*            EDIT IN ITEMS WHICH ARE TO BE DEFINED BY @CFDE    ACF 22  00070000
*            MACRO ENTRIES IN THE ACFFDR.  THE LENGTH ATTRIBUTE ACF 22 00080000
*            OF EACH SYMBOL DEFINED HERE IS USED IN THE RELATED ACF 22 00090000
*            @CFDE MACRO EXPANSION.                            ACF 22  00100000
*                                                              ACF 22  00110000
*  NOTE -- THE TOTAL LENGTH OF INSTALLATION ADDED SYMBOLS      ACF 22  00120001
*          WITHIN THE EXTENDED AREA SHOULD NOT EXCEED          ACF 22  00130001
*          192(DECIMAL), C0(HEX) BYTES.                        ACF 22  00131001
*                                                              ACF 22  00140000
*************************************************************** ACF 22  00150000
************* END OF USERLID ********************************* ACF 22  00160000
******   END OF EXTENDED USER AREA ********                   TS73974 00190000
LIDTLEN  EQU   *-LIDLID  LENGTH OF SKK RESERVED + INSTALLATION ACF 22  00200000
         ORG   LIDBOTOM           RESET END OF LIDREC         ACF 22  00210000
         AGO   .CONT                                          TS73974 00220000
 SHORT   ANOP                                                 TS73974 00230000
         ORG   LIDNEWA            RESET END OF LIDREC         TS73974 00240000
 CONT    ANOP                                                 TS73974 00250000
LIDLEN   EQU   *-LIDREC           LENGTH OF RECORD            ACF 22  00260000
         MEND                                                 ACF 20  00270000
```

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FIRST MODIFICATIONS)
ANSWERS

4. ACF
SET CONTROL(GSO) SYSID(TLC1)
INSERT BACKUP CPUID(TLC1) TIME(15:45)

INSERT OPTS CONSOLE(ROLL)

CHANGE OPTS DECOMP(ALL)

** OR **

4. INSERT BACKUP CPUID(TLC1) TIME(15:45)

INSERT OPTS CONSOLE(ROLL) DECOMP(ALL)

5. INSERT WARN -
MSG(YOU HAVE TEMP ACCESS ONLY, CONTACT THE ISO IF PERM -
ACCESS IS NEEED)

OPERATOR COMMANDS

NOTE: TLC SHOULD IPL WITH A CLPA AND THEN SET SYSID TO TLC1
THIS MUST BE DONE BY THE ISO

EXAMPLE: F ACF2,SETSYS(TLC1)
F ACF2,REFRESH(BACKUP)
F ACF2,REFRESH(OPTS)
F ACF2,REFRESH(WARN)

Revised: 10/11/84

TRUE LOCK COMPANY ACF2 SYSTEM OPTIONS (FINAL MODIFICATIONS)

Show the ACF2 commands needed to make the following changes to the True Lock ACF2 System Options. Show any operator commands that may be needed.

LOGONID RECORDS (ACFFDR)

1. PROJECT should not be copied when you are creating a new Logonid record from a prototype.

2. The UID string should be dynamically built with Logonid fields in the following order:

   COMPANY,SITE,LEVEL,PROJECT,LID

LOGONID RECORDS (GSO)

3. All batch jobs that do not have a Logonid specified in their JCL should have a Logonid specified of SKKDFT.

4. Bypass the TSO User Attribute Dataset (UADS) for account and procedure information and user profile control.

PASSWORD CONSIDERATIONS

5. If users enter the wrong password two times in a row during the TSO Logon process, they should start the Logon process over (reenter LOGON).

6. All passwords must be a least 5 characters long.

7. Allow users three invalid password attempts in a single day.

8. Invalid passwords from batch jobs should be counted against the invalid password attempts on the Logonid.

9. Give users three-day notice before their passwords expire.

10. If users do not enter a passwords within 60 seconds after they enter LOGON, they should be forced to start the Logon process over.

TAPE HANDLING CONSIDERATIONS

11. All tapes should be checked at the volume level.

Revised: October 18, 1984

TRUE LOCK COMPANY ACF2 SYSTEM OPTIONS (FINAL MODIFICATIONS)

PERFORMANCE OPTIONS

12. The following Access Rule Sets should be made resident in storage at ACF2 initialization time:

    SYS1,SKK,SSD,ISP

13. Make the Directories for types DSD and PGM resident in storage (CSA) at ACF2 initialization time.

IMPLEMENTATION CONSIDERATIONS

14. Specify the following module names for installation written exits:

    Dataset Violation Exit - SKKVIO
    Dataset Pre-Validation Exit - SKKVALD
    Dataset Post-Validation Exit - POSTVLD

15. Change ACF2 so it is in the ABORT mode.

LOGGING CONSIDERATIONS

16. The program INCORZAP should be added to the list of programs for which all dataset accesses are to be logged.

17. All Bypass Label Processing (BLP) against tape volumes should be logged.

BYPASS SECURITY

18. Remove FDR*** (Inovation's Fast Dump/Restore) from the list of programs whose use is restricted to NON-CNCL or unrestricted Security Officer Logonids. Normally programs are put on this list because they are authorized to bypass the system integrity features of the operating system and, therefore, bypass ACF2 security.

Revised: October 12, 1984

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FINAL MODIFICATIONS)
ANSWERS

LOGONID RECORDS (ACFFDR)

1.

```
*** TLC ADDED PROJECT TO ZERO FIELDS **** TLC0384                    01600100
        @ZEROFLD NAME,PHONE,UPD-TOD,SEC-VIO,OID,OID-ALL,UADSINDX,    X01610000
              PSWD-VIO,PSWD-DAT,ACC-DATE,ACC-TIME,ACC-CNT,           X01620000
              PROJECT,                                               X01620100
              ACCTPRIV,OPERATOR,NON-CNCL,MOUNT,MAINT,                X01630000
              NO-SMC,MUSASS,JOBFROM,ACC-SRCE,TSORBA,                 X01640000
              SECURITY,LEADER,CONSULT,AUDIT,ACCOUNT,REFRESH,         X01650000
              SCPLIST,LOGSHIFT,READALL,RULEVLD,SHIFT,ZONE            01660000
```

2.

```
*** TLC'S UID STRING ***** TLC0384                                   01490100
        @UID   COMPANY,SITE,LEVEL,PROJECT,LID                       01500000
```

LOGONID RECORDS (GSO)

3.
```
ACF
SET CONTROL(GSO) SYSID(TLC1)
CHANGE OPTS DFTLID(SKKDFT)
```

4.
```
CHANGE OPTS NOUADS
```

** OR **

3 - 4
```
CHANGE OPTS DFTLID(SKKDFT) NOUADS
```


Revised: 10/10/84

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FINAL MODIFICATIONS)
ANSWERS

PASSWORD CONSIDERATION

5. INSERT PSWD MAXTRY(2)

6. CHANGE PSWD MINPSWD(5)

7. CHANGE PSWD PASSLMT(3)

8. CHANGE PSWD PSWDJES

9. CHANGE PSWD WRNDAYS(3)

** OR **

5 - 9 INSERT PSWD MAXTRY(2) MINPSWD(5) PASSLMT(3) PSWDJES WRNDAYS(3)

10. INSERT TSO WAITIME(60)

TAPE HANDLING CONSIDERATIONS

11. INSERT SECVOLS VOLMASK(******)

PERFORMANCE OPTIONS

12. INSERT RESRULE INDEX(SYS1,SKK,SSD,ISP)

13. INSERT RESDIR TYPES(R-DSD,R-PGM)

IMPLEMENTATION CONSIDERATIONS

14. INSERT EXITS VLDEXIT(SKKVALD) VIOEXIT(SKKVIO) DSNPOST(POSTVLD)

15. CHANGE OPTS MODE(ABORT) REF

Revised: 10/10/84

TRUE LOCK COMPANY
ACF2 SYSTEM OPTIONS (FINAL MODIFICATIONS)
ANSWERS

LOGGING CONSIDERATIONS

16. INSERT LOGPGM PGMS(AMASPZAP,IMASPZAP,INCORZAP)

17. ~~CHANGE~~ OPTS BLPLOG

BYPASS SECURITY

18. ~~INSERT~~ SYSID(TLC1) PPGM PGM-MASK(IEHD****,DRWD****,ICKDSF**)

OPERATOR COMMANDS

NOTE: TLC SHOULD IPL WITH A CLPA AND THEN SET SYSID TO TLC1
THIS MUST BE DONE BY THE ISO

EXAMPLE: F ACF2,SETSYS(TLC1)
F ACF2,REFRESH(PSWD)
F ACF2,REFRESH(TSO)
F ACF2,REFRESH(OPTS)
F ACF2,REFRESH(SECVOLS)
F ACF2,REFRESH(RESRULE)
F ACF2,REFRESH(RESDIR)
F ACF2,REFRESH(EXITS)
F ACF2,REFRESH(LOGPGM)
F ACF2,REFRESH(PPGM)

Revised: 10/10/84

acf2

The Access Control Facility

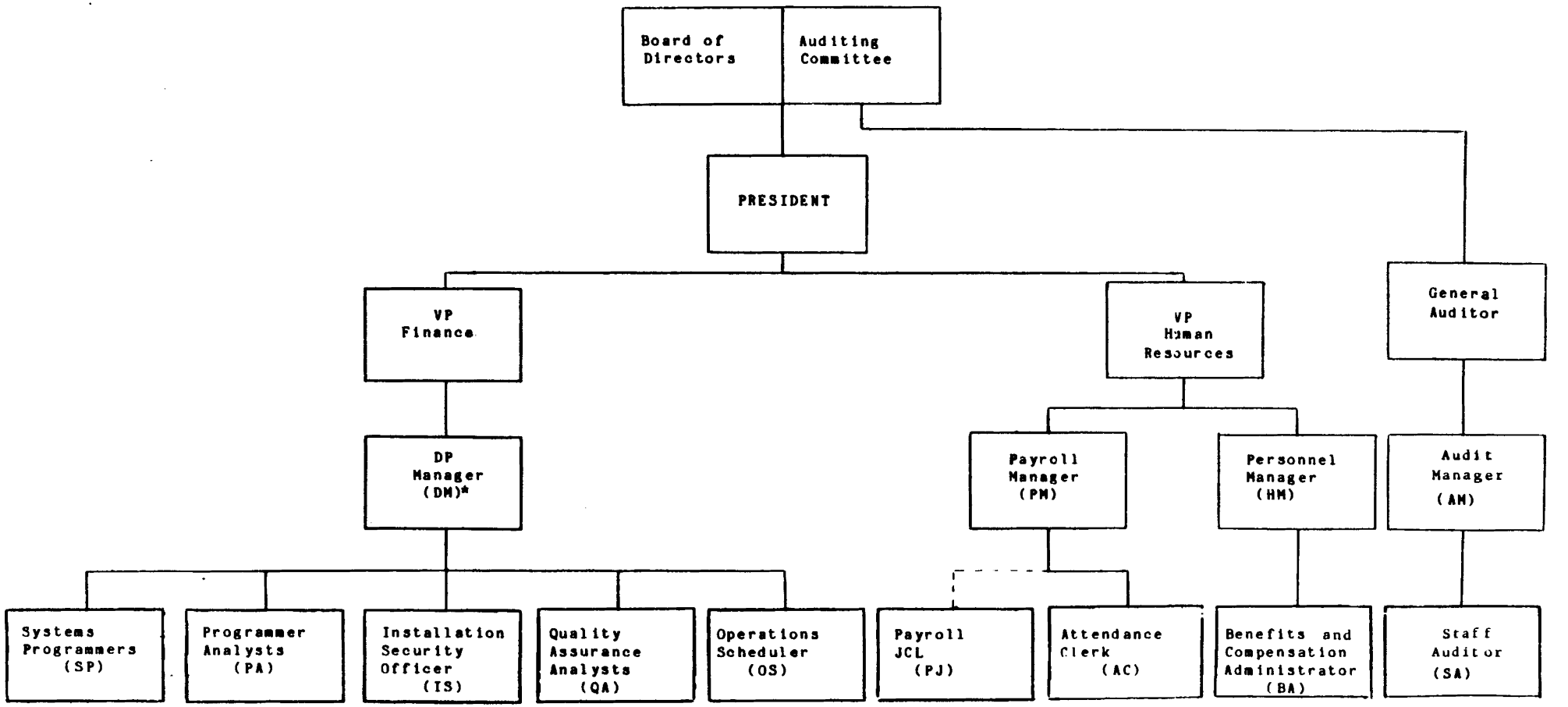
LOGONID

MAINTENANCE

03/08/83

TRUE LOCK COMPANY - CHICAGO

ORGANIZATION CHART



* = PROJECT

Revised: 10/5/84

CASE STUDY

THE TRUE LOCK COMPANY

"Handling your needs with TLC"

UID String (Total 11 characters):

COMPANY,SITE,LEVEL,PROJECT,LID

WITH:

Company (1)	*T*	*True Lock*
Site (1)	*C*	*Chicago*
Level (1)	*A*	*Auditing*
	H	*Human Resources*
	F	*Finance*
Project (2)	*AC*	*Attendance Clerk*
	AM	*Audit Manager*
	BA	*Benefits & Compensation Administrator*
	DM	*DP Manager*
	HM	*Personnel Manager*
	IS	*Installation Security Officer*
	OS	*Operations Scheduler*
	PA	*Programmer Analyst*
	PJ	*Payroll JCL*
	PM	*Payroll Manager*
	QA	*Quality Assurance Analyst*
	SA	*Staff Auditor*
	SP	*Systems Programmers*
LID (8)		*(Only the first 6 characters are used)*

Revised: 10/5/84

CASE STUDY - USER ID STRING EXERCISE

NAME	TITLE	COMPANY	SITE	LEVEL	PROJECT	LID *
Violet	Operations Scheduler	T	C	F	OS	TLC001
Steve	Programmer Analyst	T	C			TLC002
Pearl	Installation Security Officer	T	C			TLC003
Oscar	Quality Assurance	T	C			TLC004
Mary	Systems Programmer	T	C			TLC005
Kathy	Benefits/Compensation Administrator	T	C	H	BA	TLC006
John	Attendance Clerk	T	C			TLC007
Payroll	Payroll JCL	T	C			TLC008
Auditor	Staff Auditor	T	C	A	SA	TLC009
Sam	Payroll Manager	T	C			TLC010
Sue	Programmer Analyst	T	C			TLC011

* NOTE: The last two characters are blanks. They are not used.

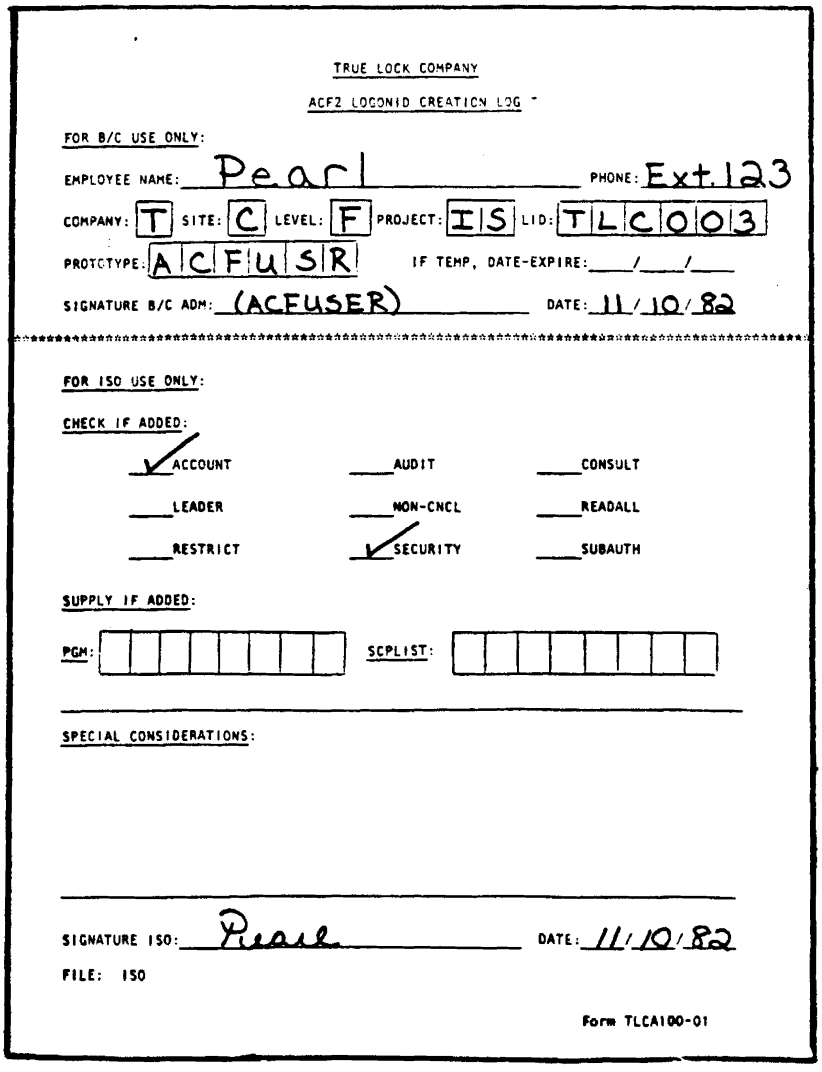
Revised: 10/5/84

SEQUENCE OF LOGONIDS ALREADY CREATED AT TRUE LOCK

LOGONID	CREATED BY	MODIFIED BY	SPECIAL ATTRIBUTES*
TLC003	ACFUSER	ACFUSER	SECURITY,ACCOUNT
ACFUSER	-----	TLC003	(SUSPEND)
TLC006	TLC003	-----	ACCOUNT
TLC001	TLC006	-----	NONE
TLC002	TLC006	-----	NONE
TLC004	TLC006	-----	NONE
TLC005	TLC006	TLC003	NON-CNCL
TLC007	TLC006	-----	NONE
TLC008	TLC006	TLC003	PROGRAM(JOBCOPY), PREFIX( ), RESTRICT,SUBAUTH

* Note that Logonid TLC006 only has the ACCOUNT attribute. It can create other logonids, but cannot assign certain special privileges such as NON-CNCL and PREFIX.

Revised: 10/5/84



TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Pearl PHONE: Ext.123

COMPANY: T SITE: C LEVEL: F PROJECT: IS LID: TLC003

PROTOTYPE: ACFUSR IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE B/C ADM: (ACFUSER) DATE: 11/10/82

FOR ISO USE ONLY:

CHECK IF ADDED:

✓ ACCOUNT ___ AUDIT ___ CONSULT

___ LEADER ___ NON-CNCL ___ READALL

___ RESTRICT ✓ SECURITY ___ SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST:

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Pearl DATE: 11/10/82

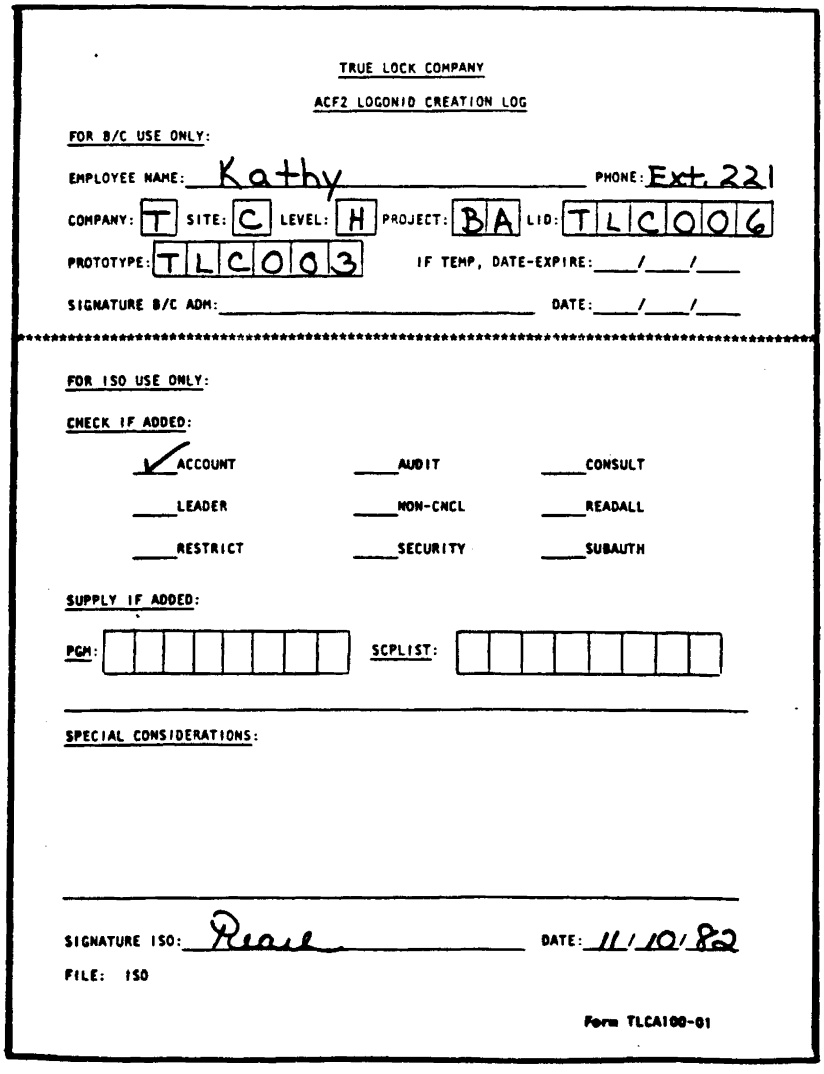
FILE: ISO

Form TLCA100-01

List TLC003

```
TLC003          TCFISTLC003 PEARL EXT. 123
PRIVILEGES      ACCOUNT CICS JOB SECURITY TSO
ACCESS          ACC-CNT(5) ACC-DATE(01/17/83) ACC-TIME(09:47)
MISCELLANEOUS   COMPANY(T) LEVEL(F) MAXDAYS(60)
                PREFIX(TLC003) PROJECT(IS) SITE(C)
TSO             CHAR(BS) DFT-PFX(TLC003) DFT-SOUT(A) DFT-SUBM(A) INTERCOM
                JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
                TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS      PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-09:05)
                PSWD-VIO(0) SEC-VIO(0) UPD-TOD(02/11/83-13:51)
```

Revised: October 9, 1984



TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Kathy PHONE: Ext. 221

COMPANY: T SITE: C LEVEL: H PROJECT: BA LID: TLC006

PROTOTYPE: TLC003 IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE B/C ADM: _____ DATE: ___/___/___

FOR ISO USE ONLY:

CHECK IF ADDED:

✓ ACCOUNT	___ AUDIT	___ CONSULT
___ LEADER	___ NON-CNCL	___ READALL
___ RESTRICT	___ SECURITY	___ SUBAUTH

SUPPLY IF ADDED:

PGM: _____ SCPLIST: _____

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Reale DATE: 11/10/82

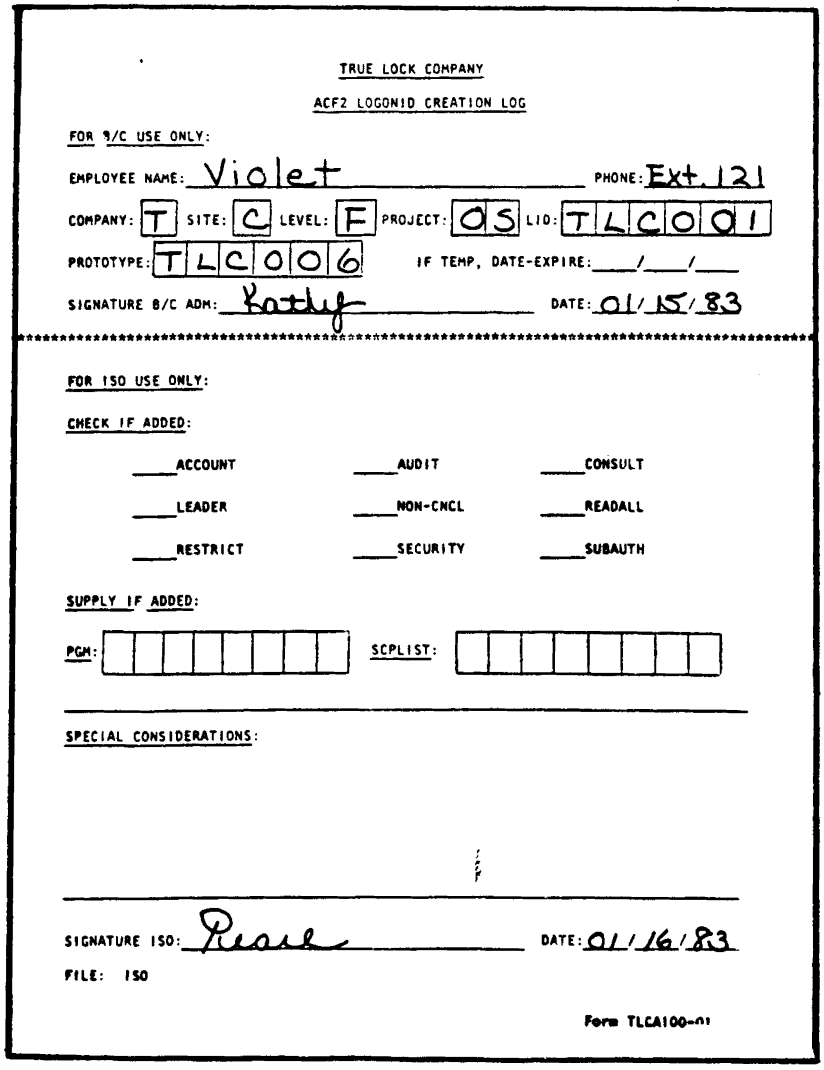
FILE: ISO

Form TLCA100-01

List TLC006

TLC006	TCHBATLC006 KATHY EXT. 221
PRIVILEGES	ACCOUNT CICS JOB TSO
ACCESS	ACC-CNT(2) ACC-DATE(01/12/83) ACC-TIME(12:59)
MISCELLANEOUS	COMPANY(T) LEVEL(H) MAXDAYS(60)
	PREFIX(TLC006) PROJECT(BA) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC006) DFT-SOUT(A) DFT-SUBM(A)
	JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
	TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-09:08)
	PSWD-VIO(0) SEC-VIO(2) UPD-TOD(02/11/83-13:51)

Revised: October 9, 1984



TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR S/C USE ONLY:

EMPLOYEE NAME: Violet PHONE: Ext. 121

COMPANY: T SITE: C LEVEL: F PROJECT: OS LID: TLC001

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE S/C ADM: Kathy DATE: 01/15/83

FOR ISO USE ONLY:

CHECK IF ADDED:

____ACCOUNT	____AUDIT	____CONSULT
____LEADER	____NON-CNCL	____READALL
____RESTRICT	____SECURITY	____SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST:

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Pearl DATE: 01/16/83

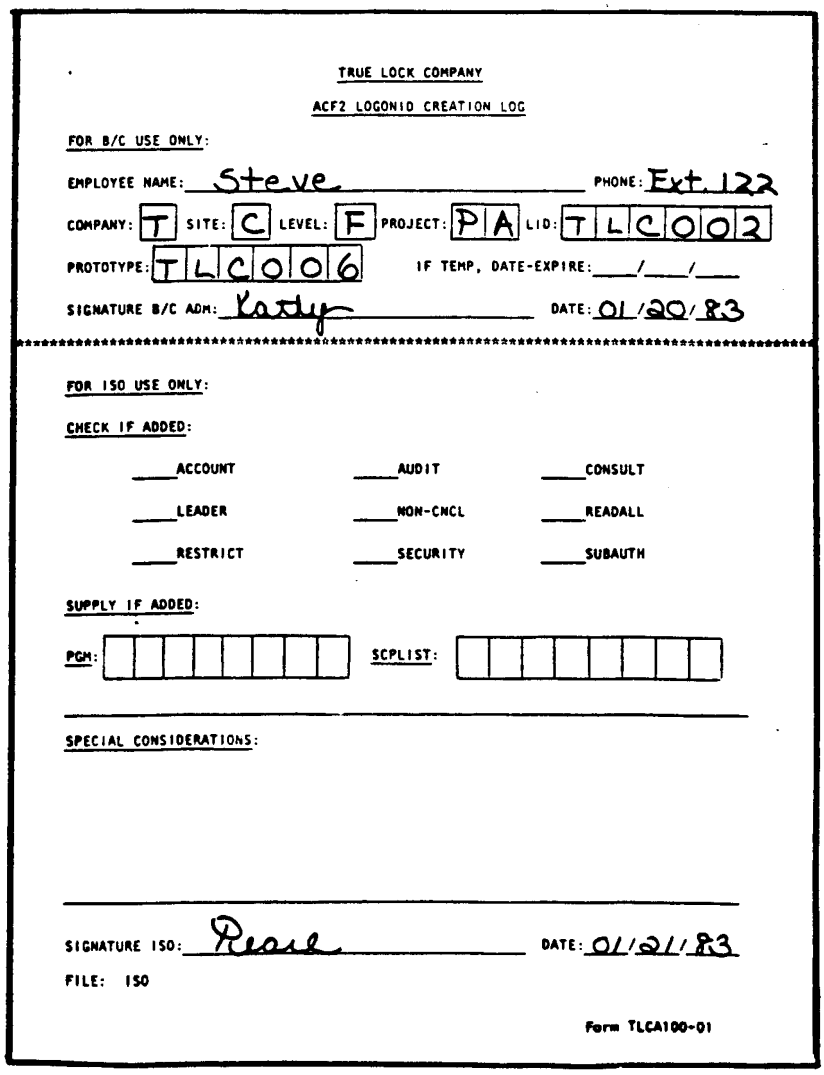
FILE: ISO

Form TLCA100-01

List TLC001

```
TLC001          TCFOSTLC001 VIOLET EXT. 121
PRIVILEGES      CICS JOB TSO
ACCESS          ACC-CNT(5) ACC-DATE(01/14/83) ACC-TIME(10:07)
MISCELLANEOUS   COMPANY(T) LEVEL(H) MAXDAYS(60)
                PREFIX(TLC001) PROJECT(OS) SITE(C)
TSO             CHAR(BS) DFT-PFX(TLC001) DFT-SOUT(A) DFT-SUBM(A) INTERCOM
                JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
                TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS      PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-12:53)
                PSWD-VIO(0) SEC-VIO(8) UPD-TOD(02/11/83-13:51)
```

Revised: October 9, 1984



TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Steve PHONE: Ext. 122

COMPANY: T SITE: C LEVEL: F PROJECT: PA LID: TLC002

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE B/C ADM: Kathy DATE: 01/20/83

FOR ISO USE ONLY:

CHECK IF ADDED:

___ACCOUNT	___AUDIT	___CONSULT
___LEADER	___NON-CNCL	___READALL
___RESTRICT	___SECURITY	___SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST:

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Pease DATE: 01/21/83

FILE: ISO

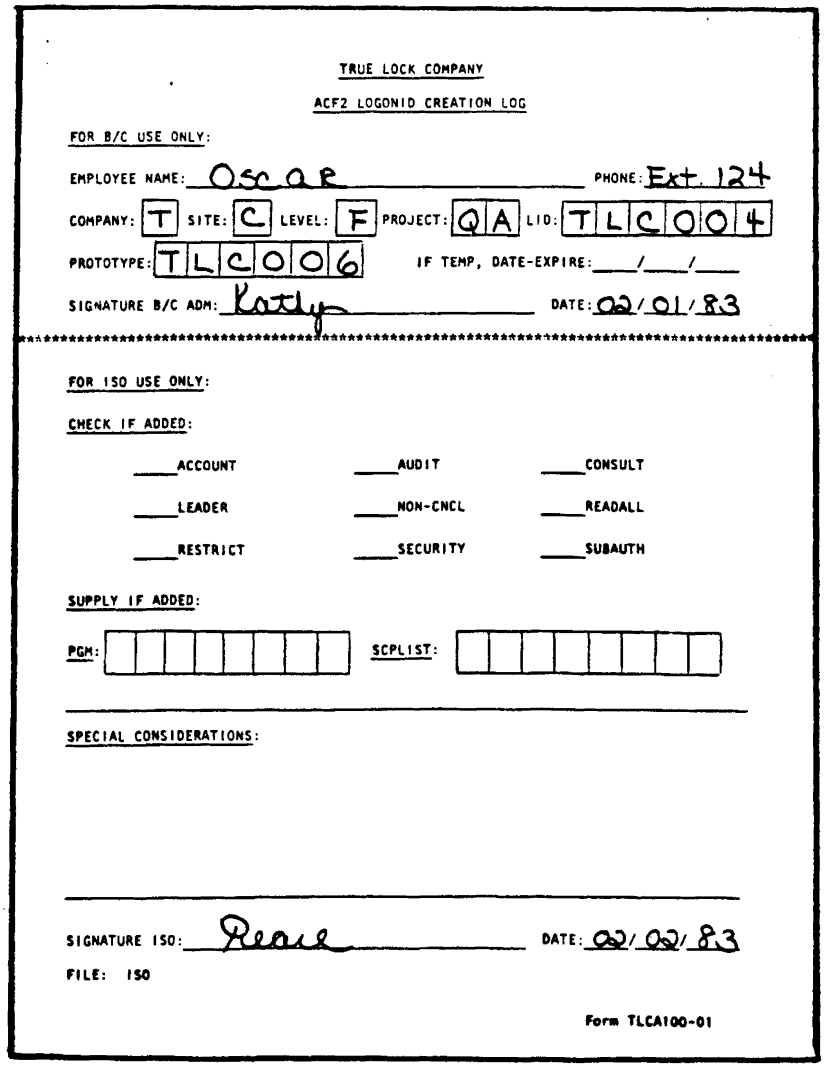
Form TLCA100-01

List TLC002

TLC002	TCFPATLC002 STEVE EXT. 122
PRIVILEGES	CICS JOB TSO
ACCESS	ACC-CNT(3) ACC-DATE(01/14/83) ACC-TIME(08:11)
MISCELLANEOUS	COMPANY(T) LEVEL(F) MAXDAYS(60)
	PREFIX(TLC002) PROJECT(PA) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC002) DFT-SOUT(A) DFT-SUBM(A) INTERCOM
	JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
	TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(01/14/83) PSWD-TOD(01/12/83-12:54)
	PSWD-VIO(1) SEC-VIO(5) UPD-TOD(02/11/83-13:51)

Revised: October 9, 1984

OSCAR - QUALITY ASSURANCE ANALYST



TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Oscar PHONE: Ext. 124

COMPANY: T SITE: C LEVEL: F PROJECT: QA LID: TLC004

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE B/C ADM: Kathy DATE: 02/01/83

FOR ISO USE ONLY:

CHECK IF ADDED:

____ACCOUNT	____AUDIT	____CONSULT
____LEADER	____NON-CNCL	____READALL
____RESTRICT	____SECURITY	____SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST:

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Reave DATE: 02/02/83

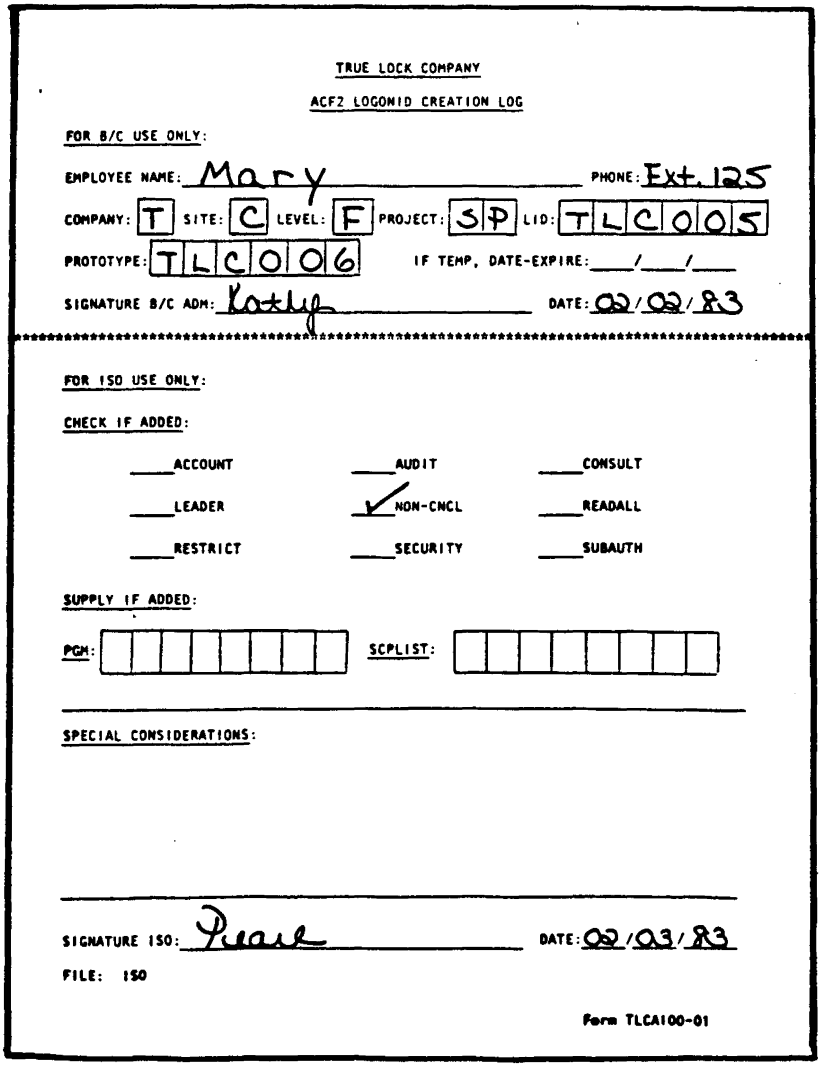
FILE: ISO

Form TLCA100-01

List TLC004

TLC004	TCFQATLC004 OSCAR EXT. 124
PRIVILEGES	CICS JOB TSO
ACCESS	ACC-CNT(4) ACC-DATE(01/13/83) ACC-TIME(11:26)
MISCELLANEOUS	COMPANY(T) LEVEL(F) MAXDAYS(60)
	PREFIX(TLC004) PROJECT(QA) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC004) DFT-SOUT(A) DFT-SUBM(A) INTERCOM
	JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
	TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-11:35)
	PSWD-VIO(0) SEC-VIO(4) UPD-TOD(02/11/83-13:51)

Revised: October 9, 1984



TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Mary PHONE: Ext. 125

COMPANY: T SITE: C LEVEL: F PROJECT: SP LID: TLC005

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE B/C ADM: Kathy DATE: 02/02/83

FOR ISO USE ONLY:

CHECK IF ADDED:

___ACCOUNT	___AUDIT	___CONSULT
___LEADER	✓NON-CNCL	___READALL
___RESTRICT	___SECURITY	___SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST:

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Pearl DATE: 02/03/83

FILE: ISO

Form TLCA100-01

List TLC005

```
TLC005          TCFSPTLC005 MARY EXT. 125
PRIVILEGES      CICS JOB NON-CNCL TSO
ACCESS          ACC-CNT(2) ACC-DATE(01/14/83) ACC-TIME(08:42)
MISCELLANEOUS   COMPANY(T) LEVEL(F) MAXDAYS(60)
                PREFIX(TLC005) PROJECT(SP) SITE(C)
TSO             CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A) INTERCOM
                JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
                TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS      PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-12:59)
                PSWD-VIO(0) SEC-VIO(0) UPD-TOD(02/11/83-13:51)
```

Revised: October 9, 1984

JOHN - ATTENDANCE CLERK

TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: John PHONE: Ext. 222

COMPANY: T SITE: C LEVEL: H PROJECT: AC LID: TLC007

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE B/C ADM: Kathy DATE: 01/20/83

FOR ISO USE ONLY:

CHECK IF ADDED:

____ACCOUNT	____AUDIT	____CONSULT
____LEADER	____NON-CNCL	____READALL
____RESTRICT	____SECURITY	____SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST:

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Pearl DATE: 01/21/83

FILE: ISO

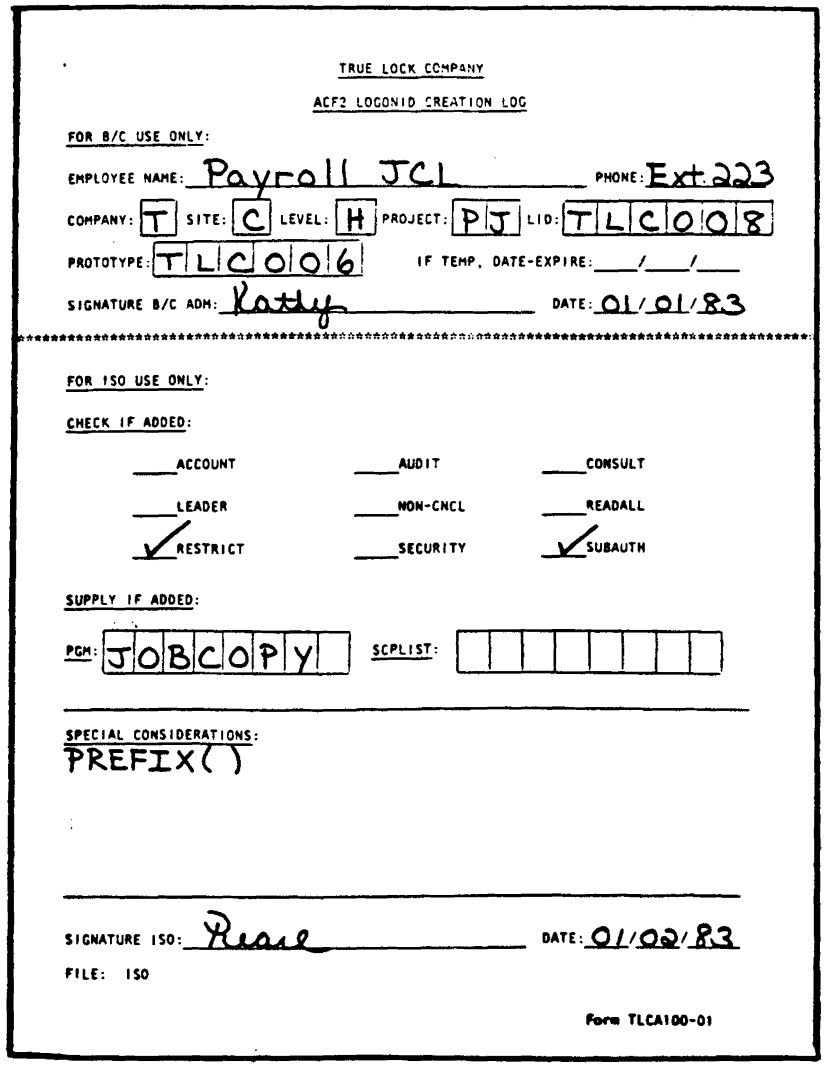
Form TLCA100-01

List TLC007

TLC007	TCHACTLC007 JOHN EXT. 222
PRIVILEGES	CICS JOB TSO
ACCESS	ACC-CNT(1) ACC-DATE(01/12/83) ACC-TIME(13:00)
MISCELLANEOUS	COMPANY(T) LEVEL(H) MAXDAYS(60)
	PREFIX(TLC007) PROJECT(AC) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC007) DFT-SOUT(A) DFT-SUBM(A) INTERCOM
	JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
	TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-13:00)
	PSWD-VIO(0) SEC-VIO(1) UPD-TOD(02/11/83-13:51)

Revised: October 9, 1984

PAYROLL JCL



TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Payroll JCL PHONE: Ext 223

COMPANY: T SITE: C LEVEL: H PROJECT: PJ LID: TLC008

PROTOTYPE: TLC0006 IF TEMP, DATE-EXPIRE: ___/___/___

SIGNATURE B/C ADM: Kathy DATE: 01/01/83

FOR ISO USE ONLY:

CHECK IF ADDED:

___ ACCOUNT	___ AUDIT	___ CONSULT
___ LEADER	___ NON-CNCL	___ READALL
✓ RESTRICT	___ SECURITY	✓ SUBAUTH

SUPPLY IF ADDED:

PGM: JOBCOPY SCPLIST:

SPECIAL CONSIDERATIONS:
PREFIX( )

SIGNATURE ISO: Rene DATE: 01/02/83

FILE: ISO

Form TLCA100-01

List TLC008

TLC008	TCHPJTLC008 PAYROLL EXT. 223
PRIVILEGES	CICS JOB PROGRAM(JOBCOPY) RESTRICT SUBAUTH TSO
ACCESS	ACC-CNT(20) ACC-DATE(01/17/83) ACC-TIME(09:51)
MISCELLANEOUS	COMPANY(T) LEVEL(H) MAXDAYS(60)
	PREFIX( ) PROJECT(PJ) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC008) DFT-SOUT(A) DFT-SUBM(A) INTERCOM
	JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT
	TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
	PSWD-VIO(0) SEC-VIO(2) UPD-TOD(02/11/83-13:51)

Revised: October 9, 1984

LOGONID CREATION EXERCISE

Logonids TLC009, TLC010, and TLC011 must be created at True Lock. The Logonids will be created in the following sequence.

- TLC011 first
- TLC010 next
- TLC009 last

For each Logonid:

1. Kathy from Benefits and Compensation Administration (Logonid TLC006) will create the new Logonids, using her Logonid as a prototype.

2. Pearl, the Installation Security Officer (Logonid TLC003) will make additional modifications to each Logonid (if necessary).

3. Show all ACF commands and parameters needed to create and, if necessary, modify the Logonids. Use the request forms that follows to create these Logonids...

Revised: 1/23/84

TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Sue PHONE: Ext. 107

COMPANY: T SITE: C LEVEL: F PROJECT: PA LID: TLC011

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ____/____/____

SIGNATURE B/C ADM: Kathy DATE: 01/09/83

****

FOR ISO USE ONLY:

CHECK IF ADDED:

____ACCOUNT	____AUDIT	____CONSULT
____LEADER	____NON-CNCL	____READALL
____RESTRICT	____SECURITY	____SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST:

SPECIAL CONSIDERATIONS:

SIGNATURE ISO: Peare DATE: 01/16/83

FILE: ISO

Revised: March 9, 1983

Form TLCA100-01

TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Sam PHONE: Ext. 380

COMPANY: T SITE: C LEVEL: H PROJECT: PM LID: TLC010

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ____/____/____

SIGNATURE B/C ADM: Kathy DATE: 01/10/83

****

FOR ISO USE ONLY:

CHECK IF ADDED:

✓ ACCOUNT	____ AUDIT	____ CONSULT
____ LEADER	____ NON-CNCL	____ READALL
____ RESTRICT	____ SECURITY	____ SUBAUTH

SUPPLY IF ADDED:

PGM: SCPLIST: HMSCOPE

SPECIAL CONSIDERATIONS:

NOTE: HMSCOPE SCOPE LIST INCLUDES:
UID(TCH-) LID(-)
DSN(-)

SIGNATURE ISO: Pierre DATE: 01/16/83

FILE: ISO

Revised: 6/13/83

Form TLCA100-01

TRUE LOCK COMPANY

ACF2 LOGONID CREATION LOG

FOR B/C USE ONLY:

EMPLOYEE NAME: Staff Auditor PHONE: Ext.321

COMPANY: T SITE: C LEVEL: A PROJECT: SA LID: TLC009

PROTOTYPE: TLC006 IF TEMP, DATE-EXPIRE: ____/____/____

SIGNATURE B/C ADM: Kathy DATE: 01/10/83

****

FOR ISO USE ONLY:

CHECK IF ADDED:

____ACCOUNT	✓ AUDIT	____CONSULT
____LEADER	____NON-CNCL	✓ READALL
____RESTRICT	____SECURITY	____SUBAUTH

SUPPLY IF ADDED:

PGM: | | | | | | | | |

SCPLIST: AUDITOR

SPECIAL CONSIDERATIONS:

NOTE: SCOPE LIST AUDITOR INCLUDES:

LID(ACFUSER,TLC-)
DSN(PAYROLL)
INF(-)
UID(-)

SIGNATURE ISO: Reale DATE: 01/16/83

FILE: ISO

Revised: 6/13/83

Form TLCA100-01

acf2

The Access Control Facility

RULE WRITING

3/08/83

DATASET CONTROL

I) The following are two production libraries:

SYS2.PRODJCL.PROCLIB SYS2.CHICAGO.PROCLIB

Write an access rule set for the high level index of SYS2 allowing the following sharing conditions:

1. Allow READ, WRITE, and ALLOCATE authorization for SYS2.PRODJCL.PROCLIB to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Finance Department
   - Has a project assignment of Systems Programmer
   - Has a Logonid of TLC005.

   READ and WRITE authorization should be allowed to this library for any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Finance Department
   - Has a project assignment of Operations Scheduler.

   READ access should be given to any user who:

   - Works for the True Lock Company
   - Is located in Chicago.

2. Allow READ, WRITE and ALLOCATE authorization for SYS2.CHICAGO.PROCLIB to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Finance Department
   - Has a project assignment of Systems Programmer.

   READ and WRITE authorization should be allowed to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Finance Department
   - Has a project assignment of Operations Scheduler.

   READ access should be given to any user who:

   - Works for the True Lock Company
   - Is located in Chicago.

Revised: May 10, 1984

DATASET & VOLUME CONTROL - ANSWER KEY

(ACCESS RULES)

I) ACF2 DECOMPILE OUTPUT

```
$KEY(SYS2)
 CHICAGO.PROCLIB UID(TCFOS) READ(A) WRITE(A) EXEC(A)
 CHICAGO.PROCLIB UID(TCFSP) READ(A) WRITE(A) ALLOC(A) EXEC(A)
 CHICAGO.PROCLIB UID(TC) READ(A) EXEC(A)
 PRODJCL.PROCLIB UID(TCFOS) READ(A) WRITE(A) EXEC(A)
 PRODJCL.PROCLIB UID(TCFSPTLC005) READ(A) WRITE(A) ALLOC(A) EXEC(A)
 PRODJCL.PROCLIB UID(TC) READ(A) EXEC(A)
```


Revised: 6/9/83

II) The following are datasets with the high-level index of PAYROLL:

PAYROLL.CONTROL.DATA	PAYROLL.DEPT.TOTALS
PAYROLL.PROD.LOADLIB	PAYROLL.HOURS.WEEKLY
PAYROLL.BENEFITS.WEEKLY	PAYROLL.MASTER.ACTIVE
PAYROLL.BENEFITS.BIWEEKLY	PAYROLL.MASTER.BACKUP

Write an access rule set for the high level index of PAYROLL allowing the following sharing conditions:

1. READ, WRITE and ALLOCATE authorization for PAYROLL.CONTROL.DATA should be given to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Finance Department
   - Has a project assignment of Operations Scheduler.

2. Log all ALLOCATE functions and allow READ and WRITE access to PAYROLL.PROD.LOADLIB to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Finance Department
   - Has a project assignment of Quality Assurance.

   EXECUTE authorization should be given to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department.

3. Log all ALLOCATE functions and allow READ access to all datasets that begin with PAYROLL.BENEFITS to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL.

   READ and WRITE access should be given to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of Benefits/Comp Administrator.

Revised: May 10, 1984

4. Log all ALLOCATE functions and allow READ and WRITE authorization for PAYROLL.DEPT.TOTALS to any user with the following characteristics:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL.

5. Allow READ and WRITE authorization for PAYROLL.HOURS.WEEKLY to any user with the following characteristics:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of Attendance Clerk.

   Log all ALLOCATE functions and allow READ access to any user with the following characteristics:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL.

6. Log all ALLOCATE functions and allow READ access for PAYROLL.MASTER.ACTIVE to any user who:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL.

   WRITE authorization should be given to any user with the following characteristics:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL
   - Uses the program PAY030 located in PAYROLL.PROD.LOADLIB
   - Assigns the DDNAME SYSUT2 to PAYROLL.MASTER.ACTIVE.

7. Log all ALLOCATE functions for PAYROLL.MASTER.BACKUP for any user with the following characteristics:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL.

   WRITE authorization should be given to any user with the following characteristics:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL
   - Uses program PAY020 in library PAYROLL.PROD.LOADLIB
   - Assigns the DDNAME SYSUT2 to PAYROLL.MASTER.BACKUP

   READ access should be given to any user with the following characteristics:

   - Works for the True Lock Company
   - Is located in Chicago
   - Is assigned to the Human Resources Department
   - Has a project assignment of PAYROLL JCL
   - Uses program PAY021 in library PAYROLL.PROD.LOADLIB
   - Assigns the DDNAME SYSUT1 to PAYROLL.MASTER.BACKUP

III) The following are DASD Volume Serial Numbers at True Lock:

FIN001 to FIN030
PROD01 to PROD99
PUB001 to PUB020
TEST01 to TEST20

Write a SYSVTOC rule set for the conditions that follow:

1. Allow READ and WRITE access and log all ALLOCATE functions, when the VTOC is opened as a dataset, for any user who has the following characteristics:

   - Has a project assignment of Systems Programmer
   - Uses an input device from the source group of SYSTEMS.

   Allow read access to all VTOC's that reside on volumes that begin with FIN, for any user who has the following characteristics:

   - Works for the True Lock Company

   - Is located in Chicago
   - Is assigned to the Finance Department
   - Uses program LISTVTOC located in SYS2.UTILITY.

   Allow read access to all VTOC's that reside on volumes that begin with PUB or TEST, for any users.

IV) Using the same logic discussed in class about splitting a rule set, write an access rule set to split the SYS2 rule set for the below datasets into three rule sets. Control is based on the second level index (PERSONS, SCHEDULE, AUDIT).

SYS2.PERSONS.DATA
SYS2.SCHEDULE.CHICAGO.DAILY
SYS2.SCHEDULE.CHICAGO.WEEKLY
SYS2.SCHEDULE.CHICAGO.MONTHLY
SYS2.SCHEDULE.CHICAGO.YEARLY
SYS2.AUDIT.DATA

1. Allow complete access to SYS2.PERSONS.DATA to any user who:

   - Works for the True Lock Company
   - Is assigned to the Human Resources Department
   - Has a project assignment of Payroll Manager
   - Hs a Logonid of TLC010.

   WRITE access should be logged, and READ access allowed, for any user with the following characteristics:

   - Is assigned to the Human Resources Department
   - Has a project assignment of Benefits/Comp Administrator.

2. Allow complete access but log ALLOCATE functions for any SYS2.SCHEDULE datasets for any user who:

   - Is located in Chicago
   - Is assigned to the Finance Department
   - Has a project assignment of Operations Scheduler.

   Allow READ and WRITE access for any user who:

   - Is located in Chicago
   - Has a project assignment of Data Processing Manager, Payroll Manager, Personnel Manager or Audit Manager.

   READ access should be allowed for all other users to all scheduling datasets.

3. Log all ALLOCATE functions and allow READ and WRITE to SYS2.AUDIT.DATA to any user who:

   - Works for the True Lock Company
   - Is assigned to the Auditing Department
   - Has a project assignment of Audit Manager.

   READ access should be allowed to any user who:

   - Works for the True Lock Company
   - Is assigned to the Auditing Department
   - Uses a device from the source group of AUDIT.

I) TSO ACCOUNT NUMBER USAGE

Account numbers are used to bill TSO session time. The user has the option to LOGON and define which account is to be billed for that session.

Define the following TSO account numbers as generalized resources. Include the ACF2 commands to create and store the Resource Rules.

F001 , H001

1. Allow any user with the following characteristics authority to use F001:

   - Is assigned to the Finance Department

   as long as:

   - The access is before 12/02/83.

   Log access for any user with the following characteristics:

   - Is assigned to the Finance Department
   - Has a project assignment of Operations Scheduler.

2. Allow any user with the following characteristics authority to use H001:

   - Is assigned to Human Resources

   as long as:

   - The access is being requested from a device within the group called H-SOURCE.

   Log access if any user has the following characteristic:

   - Is assigned to Human Resources.

Revised: October 9, 1984

II) CICS RULE WRITING

CICS File, Program, and Transaction protection will be done by True Lock Company. Write the Generalized Resource Rules for the following CICS Resources:

TRANSACTIONS	PROGRAMS	FILES
DM01	PY01	HRMSTR
PM01		

A) CICS TRANSACTION RULE WRITING

1. Log all access to transaction DM01 until 02/01/84 for any user with the following characteristic:

   - Is assigned to the Finance Department.

   Allow access to any user with the following characteristics:

   - Is assigned to the Finance Department
   - Has a project assignment of Programmer Analyst or Installation Security Officer. (If access is being requested by the Installation Security Officer then reverification of the Installation Security Officer's password should be done.)

2. Log all access to transaction PM01 until 02/01/84 and revalidate the users password if the user has the following characteristics:

   - Is assigned to Human Resources
   - Has a project assignment of Attendance Clerk.

   Access should be allowed and the password reverified if a user has the following characteristic:

   - Is assigned to Human Resources.

Revised: May 10, 1984

B) CICS PROGRAM RULE WRITING

1. Allow access to program PY01 for any user with the following characteristics:

   - Is assigned to the Human Resources Department
   - Has a project assignment of Personnel Manager.

   Access should be logged and the password verified for any user with the following characteristics:

   - Is assigned to the Human Resources Department
   - Has a project assignment of Attendance Clerk.

C) CICS FILE RULE WRITING

1. Allow read access to file HRMSTR for any user with the following characteristics:

   - Is assigned to the Human Resources Department
   - Has a project assignment of Personnel Manager.

   Read and update authorization should be allowed to any user with the following characteristics:

   - Is assigned to the Human Resources Department
   - Has a project assignment of Attendance Clerk.

acf2

The Access Control Facility

SESSION 9

SYSTEM PROGRAMMING SESSION

TECHNICAL SESSION OUTLINE

- PHYSICAL INSTALLATION
  - UNLOADING TAPE TO FIRST IPL
  - JES MODS
  - UADS CONSIDERATIONS
  - ACF2'S INTERCEPTS
  - ADDITIONAL INSTALLATION CONSIDERATIONS
  - 4.0 INSTALLATION CONSIDERATIONS
- ACF2 MAINTENANCE
  - INSTALLATION/MAINTENANCE TAPE
  - FLASHES
  - ACF2 PRODUCT SUPPORT
- INSTALLATION OF ACF2/IMS, ACF2/CICS AND ACF2/IDMS
  - PARAMETER SELECTION
  - SYSTEM GENERATION
- ACF2 CONTROL BLOCKS & SYSTEM FLOW
  - ACF2 INITIALIZATION
  - ACF2 MACROS
  - JOB EXECUTION
  - SMF EXIT FLOW
  - ACF2 SVC'S
- MUSASS - MULTIPLE USER SINGLE ADDRESS SPACE SYSTEM
  - DEFINITION
  - MUSASS CONTROLS
  - MUSASS FLOW
  - DIRECTORIES
  - //*JOBFROM
- ADDITIONAL ACF2 CONSIDERATIONS

Revised: 10/17/84

acf2

The Access Control Facility

PHYSICAL

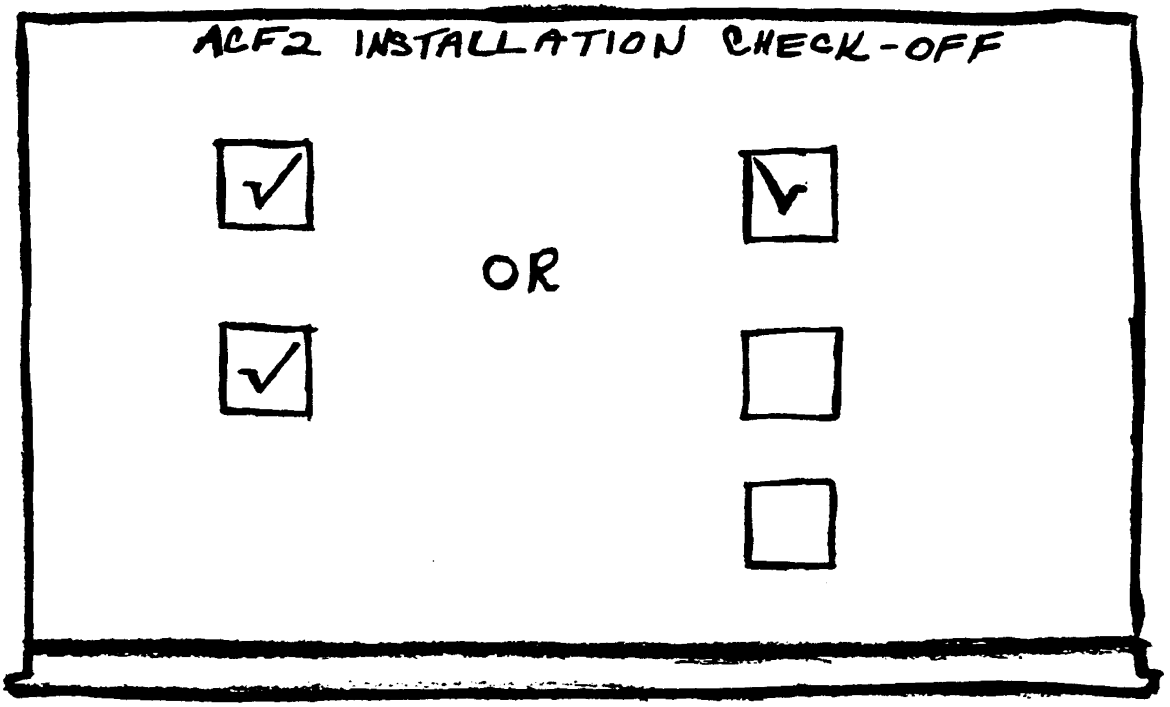
INSTALLATION

3/4/83

INSTALLATION GUIDE

* DEALS WITH PHYSICAL INSTALLATION
* STEP-BY-STEP DIRECTIONS TO REACH THE FIRST IPL
* SUPERFICIAL COVERAGE OF PRODUCT INTERACTION
* COVERAGE
  - UNLOAD TAPE
  - SYSTEM PTF'S
  - PROCEDURES
  - SMP CONTROLLED JOBS
  - CLUSTER DEFINITION AND INITIALIZATION
  - OPTIONAL SYSTEM PTF'S
  - POSTJOB
  - FIRST IPL
  - TUNE FDR

CORRECT ACF2 INSTALLATION MEANS ALL THE PROPER BOXES HAVE BEEN CHECKED!



Revised: 07/30/83

GENERAL INSTALLATION PLANNING

- Planning and Organizing ACF2 Installation
  - *Schedules*
  - *Responsibility Assignments*
  - *Check Points*
  - *Etc...*
- Stable System
  - *Operating System*
  - *Subsystem*
- Local Considerations
  - *Local Subsystem Modifications*
  - *Other Products*

OPERATING SYSTEM ENVIRONMENT

* MVS RELEASE 3.8A
* VS1 RELEASE 7.0 W/VSAM
* JOB ENTRY SUBSYSTEMS SUPPORTED

	MVS - 3.8
JES2	- EJE1102 - EJE1103
NJE	- JJE1112 - HJE1104
JES3	- EJS1102
SP1.3 JES2	- HJE2226
SP1.3.3	- HJE3229
JES3-NJE	- JJS1134
SP1.3 JES3	- HJS2226
JES3 - 3800 OPTION	- FJS1133
SP1.3.1 JES3	- HJS2327

* TWO SVC's
  VALD = 221
  ALTER = 222
* EIGHT SMF RECORD TYPES

PASSWORD = 220	JOB TRACE = 224
DATASET = 221	COMMAND = 225
LOGONID = 222	RESOURCE JOURNAL = 226
ACCESS = 223	RESOURCE VIO'S = 227

- IEFU83 SMF EXIT

Revised: 1/23/84

INSTALLATION CONSIDERATIONS

ACF2 AS A SUBSYSTEM

DEFINITION - REQUIRES NO JES ASSISTANCE TO EXECUTE
(NO SPOOLED I/O)

PROC - MUST USE DYNAMIC ALLOCATION
DSN OR ALIAS MUST BE IN MASTERCAT OR USERCAT

IMPACT - REMOVES DEPENDENCY ON CVTUSER FIELD - USES SSCVT.
REMOVES TIMING DEPENDENCY WITH JESX STARTUP
NAME ADDED TO SUBSYSTEM TABLE

INSTALLATION CONSIDERATIONS

- ACF2 AS A VS1 SUBSYSTEM
  - SSIXXXXX
    - ·ACF2,,ACFMAIN
  - DFNXXXXX
    - ·PNN=(C=*,192K)
  - CMDXXXXX
    - ·S ACF2.PNN
    - ·PARM = 'COMMANDS(S CMDPROC)'

- ACF2 AS A MVS SUBSYSTEM
  - PROGRAM PROPERTIES TABLE (PPT)
    - ·ACFMAIN
  - SUBSYSTEM TABLE ENTRY (SSCVT)
    - ·ACF2
    - ·OPTIONAL FOR MVS SP1.3
  - IEFSSNXX
    - .SUBSYSTEM NAME TABLE (SP1.3)

ACF2 DATASETS

CONTENTS OF THE ACF2 TAPE

ACF2.ACFTAPE0	-	JOBS TO DELETE ACF2 RELEASE 2.2.1 OR 3.0 FROM TARGET SYSTEM
ACF2.ACFTAPE1	-	JOB TO UNLOAD TAPE
ACF2.ACFTAPE2	-	LINKEDITED ACF2 MODULES
ACF2.ACFTAPE3	-	MACRO AND SOURCE MODULES
ACF2.ACFTAPE4	-	PROCLIB PROCEDURES
ACF2.ACFTAPE5	-	SMP JCLIN, INSTALLATION PTF'S, JES SOURCE EDIT STATEMENTS AND FLASHES
ACF2.ACFTAPE6	-	ACF2 HELP ENTRIES
ACF2.ACFTAPE7	-	JOBSTREAMS FOR ACF2 INSTALLATION
ACF2.ACFTAPE8	-	SPF PANELS, TUTORIALS, AND MESSAGES FOR THE ACF2 SPF SYSTEM SUPPORT
ACF2.ACFTAPE9	-	CLISTS TO DRIVE THE PANELS SUPPLIED IN ACFTAPE8
ACF2.ACFTAP10	-	3.1.4 JES MODIFICATIONS TO SUPPORT ACF2 AT THE JES SP1.3 LEVEL
FILES 21-XX	-	ACF2 USERMOD FILES

ACF2 RESIDENT SYSTEM DATASETS

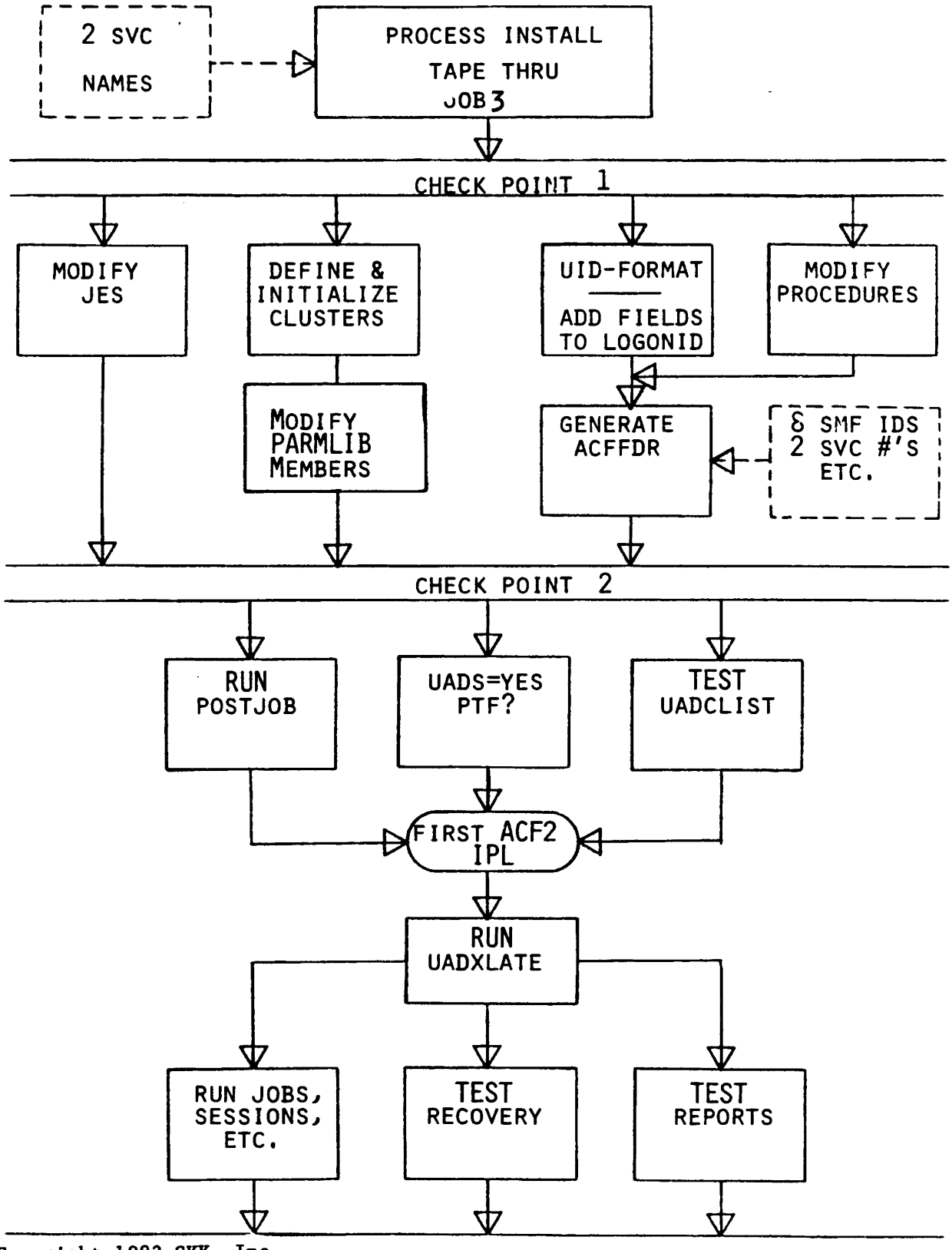
ACF2.ACFPTFS	-	LOADED FROM ACF2.ACFTAPE5
ACF2.ACFJOBS	-	LOADED FROM ACF2.ACFTAPE7
ACF2.ACFPLIB	-	PANELS AND TUTORIALS LOADED FROM ACF2.ACFTAPE8
ACF2.ACFMLIB	-	MESSAGES LOADED FROM ACF2.ACFTAPE8
ACF2.ACFCLIST	-	LOADED FROM ACF2.ACFTAPE9
ACF2.ACFJES	-	LOADED FROM ACF2.ACFTAP10
SYS1.ACFMOD	-	BUILT BY SMP FROM ACF2.ACFTAPE2
SYS1.ACFMAC	-	BUILT BY SMP FROM ACF2.ACFTAPE3
SYS1.ACFOBJ	-	USED BY ACFASM, ACFLINK, AND ACFSMP4 PROCS

ACF2 DISTRIBUTION LIBRARIES

SYS1.ACFAMAC	-	SMP ACCEPTED MACRO AND SOURCE MODULES
SYS1.ACFAMOD	-	SMP ACCEPTED ACF2 MODULES

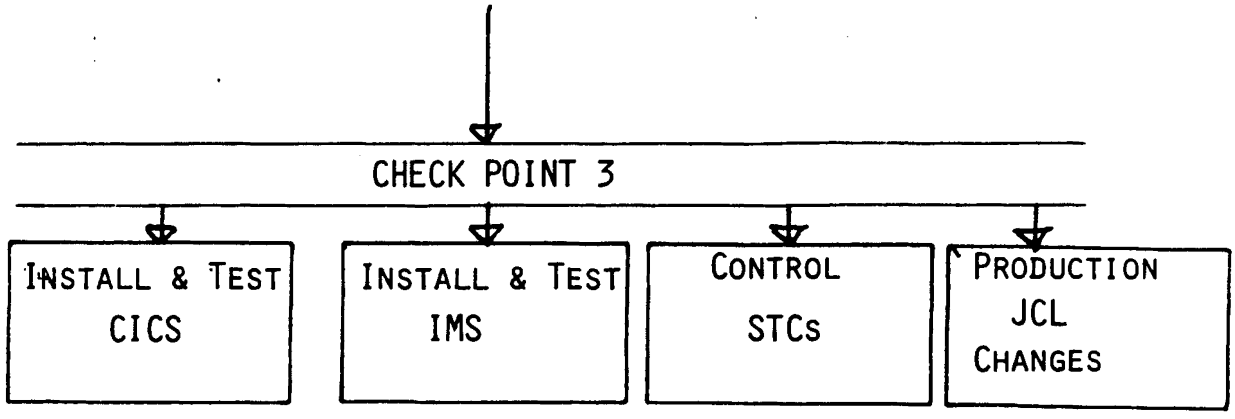
Revised: 1/23/84

ACF2 INSTALLATION PROCESS OVERVIEW



Revised: 3/4/83

ACF2 INSTALLATION PROCESS OVERVIEW



GETTING

TO

CHECK POINT

1

SELECTING THE SVC NUMBERS

- 2 SVC Numbers
  - *Non-Lock Holding*
  - *Enabled*
  - *Non-Authorized*
  - *Type 3 or 4*

- 'ACF2.ACFTAPE5(ACF3100)'
  Must Reflect Chosen SVC Numbers

- Default 221 - 222

ESTABLISHING THE ACFSMP4 PROCEDURE

(JOB1A)

- Defines Driving System Environment
  - *'SYS1.PROCLIB'*
  - *System High Level Index*
  - *ACF2 Dataset High Level Index*
  - *Other Data About the System Environment*

MVS MODIFICATIONS

(JOB2 SERIES)

- **Program Properties Table**
  - ***ACFMAIN***
- **Subsystem Name Table**
  - ***ACF2***
  - ***Optional for MVS SP1.3***

INSTALLING THE ACF2 FMID

(JOB3 SERIES)

- HELP MEMBERS
  - MVS = 'SYS1.HELP'
  - VS1 = 'SYS1.ACFHELP'

- 'SYS1.LPALIB','SYS1.LINKLIB'
  - ACF2 MODULES

- 'ACF2.ACFMOD'
  - ACF2 INACTIVE ELEMENTS

- 'ACF2.ACFMAC'
  - MACROS AND SOURCE MODULES
  - USER MODIFIABLE SOURCE/MACROS

- 'SYS1.PROCLIB'
  - ACFASM
  - ACFSMP4
  - ACFLINK
  - ACFRECVR
  - ACFBKUP
  - ACFBKUPI

- SMP LIBRARIES
  - FMID

- 'SYS1.SVCLIB' (VS1)
  - SVC's

Revised: 6/13/83

GETTING

TO

CHECK POINT

2

PRE-SP1.3
JOB ENTRY SUBSYSTEMS
(JOB5 SERIES)

- SMP
  - *IEBUPDTE*

- Multiple Installation Paths
  - *JES (VS1)*
  - *JES2*
  - *JES2/NJE*
  - *JES3*
  - *JES3/NJE*
  - *JES3 w/3800 OPTION*

Revised: 07/30/83

VS1/JES

. AFFECTED MODULES

IEFJES - SCANS JCL AND VALIDATES LOGONID. ACFBØUS1 EXIT IS CALLED. LOGONID AND SOURCE IS SAVED IN THE DER.

IEFIRC - TRANSFERS LOGONID AND SOURCE FROM THE JOB'S DER TO THE ACF ASVT.

IEFSD161 - JOB STEP TERMINATION AND JOB TERMINATION IS PERFORMED. LOGONID RECORD IS UPDATED. CONTROL BLOCKS ARE FREED.

IEFSD162 - JOB INITIATION AND JOB STEP INITIATION ARE PERFORMED. ACF2 CONTROL BLOCKS ARE BUILT, AND PROGRAM VALIDATION IS PERFORMED.

JES2/NJE

. ACF2 MODIFIES OR ADDS STATEMENTS TO JES2/NJE SOURCE

. AFFECTED MODULES ARE:

$JCT	- 1K WORK AREA ADDED AT THE END OF THE JCT.
$DCT	- 40 BYTE AREA ADDED AT THE END FOR INTERNAL READER.
HASPINIT	- INITIALIZE INTERNAL READER DCT.
HASPSSSM	- XBM AND INTERNAL READER PATH SUPPORT.
HASPPRPU	- IN HOPE, ACF2 "NOTIFY" SUPPORT.
HASPXEQ	- AT CONVERTER CALL TIME, VALIDATE LOGONID.
HASPRDR	- CONTROL CARD SCAN SUPPORT, PARMETER LIST BUILD, ETC.

Revised: 07/30/83

JES3

ACF2 ADDS STATEMENTS TO JES3 SOURCE

AFFECTED MODULES ARE:

IATYISD	- USES 4 BYTES AT END OF USER AREA IN INPUT SERVICE DSECT.
IATYWSP	- INPUT SERVICE INTERNAL READER WORKAREA.
IATYJDS	- JOB DATASET SET BLOCK.
IATYJDAB IATYJSQ	- USED TO TRANSFER ACF2 LOGONID AND SOURCE INFORMATION.
IATISIR	- GETS A LARGER INTRDR WORKAREA FOR ACF2.
IATISDV	- MOVES INFORMATION FROM THE FIXED JDS TO THE ACF2 AREA OF THE LARGER INTRDR WORKAREA.
IATISLG	- DRIVES INPUT SERVICE LOGIC, SCANS FOR ACF2 CONTROL BLOCKS.
IATMSMS	- TRANSFERS THE LOGONID AND SOURCE INFORMATION FROM THE JDAB TO THE JSQ.
IATSIJS	- INITIALIZES ACFASUT.
IATSIDM	- TRANSFER ACFASVT INFORMATION TO INTRDR JDS.
IATOSDR	- TRANSFERS INFORMATION FROM VARIABLE INTRDR JDS TO THE FIXED JDS.

Revised: 07/30/83

SP1.3
JOB ENTRY SUBSYSTEMS
(JOB6 SERIES)

- SMP
  - *IEBUPDTE*
- Multiple Installation Paths
  - *JES2/SP1.3*
  - *JES2/SP1.3.3*
  - *JES3/SP1.3*
  - *JES3/SP1.3.1*

7/30/83

FEATURES

- ++USERMOD
- AFFECTS ONLY
  HASPRDR
  HASPSSSM
  HASPTERM
- DOES NOT AFFECT
  HASPINIT
  HASPXEQ
  HASPPRPU
- NO DIRECT CONTROL BLOCK MODIFICATION
- NO DEPENDENCY ON SYS1.ACFMAC
- ACTIVATION OF CODE DEPENDENT ON JESPARMS
- USES 2 STANDARD EXITS
- ADDS 8 USER EXITS
- PROVIDES FOR A USER EXIT
- EXIT LOAD MODULES COMPLETELY MANAGED BY SMP
- MORE DIAGNOSTIC MESSAGES
- SUPPORT OF NJE AND SPOOL OFFLOAD

Revised: 07/30/83

SP1.3 - JES2

PARAMETERIZATION

* PARAMETER MACRO PROVIDES USER SPECIFICATION (#ACFJES2)
  - JCT USER FIELD NAME
  - DCT USER FIELD NAME
  - HCT USER FIELD NAME
  - USER EXIT NUMBERS

* JESPARMS

LOAD	ACF2X1J2	(LPA EXITS)
	ACF2A1J2(SP1.3.3)	
EXIT220	ACF2XJBS	(220 - JOB SELECT)
EXIT221	ACF2XIRD	(221 - INTERNAL READER)
LOAD	ACF2X2J2	(LINKLIB EXITS)
	ACF2A2J2(SP1.3.3)	
EXIT2	ACF2XJOB	(2 - JOB STATEMENT SCAN)
EXIT4	ACF2XJCL	(4 - JCL CONTROL STATEMENT SCAN)
EXIT222	ACF2XTRM	(222 - INPUT JOB END)
EXIT225	ACFSBTSK	(225 - READER SUBTASK VALIDATION EXIT)
EXIT226	ACF2STSD	(226 - SUBTASK SHUTDOWN EXIT)
EXIT227	ACF2XWTO, DISABLE	(227 - CODE TEST MESSAGE FORMAT)
LOAD	ACF2U1J2	(USER EXIT)
	ACF2AUJ2(SP1.3.3)	
EXIT223	ACF2XPRE, DISABLE	(223 - USER-VALIDATION)
EXIT224	ACF2XPST, DISABLE	(224 - POST VALIDATION EXIT)

Revised: 07/30/83

SP1.3 - JES3

ACF2 adds 23 statements to JES3 source
Affected macros and modules are:

- ***MACROS***

  IATYISD - USES 6 BYTES FOR POINTER TO ACFBLOCK

  IATYJDA - POINTER TO ACFBLOCK IN JDAB

- ***MODULES***

  IATISLG - INVOKES THE MAIN ACF2 EXITS

  IATSIOR - TRANSFER ACFASVT INFORMATION TO INTRDR JDS

  IATOSDR - TRANSFERS INFORMATION FROM VARIABLE JDS TO FIXED JDS

  IATOSNT - OUTPUT SERVICE NETWORKING PACKAGER

  IATSIJS - JOB SELECT PROCESSOR

  IATMSMS - TRANSFER LID AND SOURCE INFORMATION FROM JDAB TO JSQ

  IATISIR - INTRDR INPUT SERVICES PROCESSING

  IATISNJ - ACF2 NETOWRK JOB HEADER BUILD

Revised: 07/30/83

SP1.3 - JES3
ACF2 EXITS

ACF2 EXIT		FUNCTION	CALLING MODULE/EXIT
ACFCSCAN	-	CONTROL CARD PROCESSOR EXIT	IATUX33
ACFINWKG	-	INPUT NETWORKING EXIT	IATISNJ, ACFJBEOR
ACFJBEOR	-	END OF INPUT SERVICE EXIT	IATUX29
ACFJBINT	-	JOBCARD PROCESSING EXIT	IATUX28
ACFONWKG	-	OUTPUT NETWORKING EXIT	IATOSNT
ACFUSX01	-	USER PRE-VALIDATION EXIT	ACFINWKG, ACFJBEOR, ACFONWKG
ACFUSX02	-	USER POST-VALIDATION EXIT	ACFINWKG, ACFJBEOR, ACFONWKG
ACFUSX03	-	TEST MESSAGE	ACFJBEOR, ACFINWKG

Revised: 07/30/83

SP1.3 NON-NJE 3.1.4

* ***User post validation added for both JES2/3.***

* ***Wait permitted in JES2 post validation exit. (Waits are always permitted in JES3.)***

* ***JES2 validation performed during reader processing under ACF2 subtask.***

* ***XBM processing is simplified.***

* ***Batch Default and Warning if ACF2 exits are disabled (JES2).***

* ***Test message moved to a seperate exit for simplicity.***

* ***ACF2 control cards scanned using IBM supplied exit (JES3).***

* ***PSWD ENCRYPT (R221/XDES).***

Revised: 10/10/84

SP1.3
NJE PROCESSING WITH 3.1.4

* NJE GSO record.

* All ACF2 information collected on the sending node is available on the execution node.

* No more clear text passwords.

Revised:

Revised: 10/10/84

NJE SUPPORT

*AVAILABLE FOR JES2/JES3 WITH SP1.3 AND ABOVE

NJE RECORD

OPTIONS: VALOUT=(YES,NO),

VALOUT YES - VALIDATE ALL OUTGOING JOBS

NO - DO NOT VALIDATE OUTGOING JOBS

VALIN=(YES,ONLY),

VALIN YES - VALIDATE ALL INCOMING JOBS

ONLY - ONLY VALIDATE INCOMING JOBS IF THEY WERE NOT VALIDATED BY SENDING NODE.

INHERIT=(YES,NO)

INHERIT YES - NODE IS ACCEPTING NETWORK JOB INHERITANCE

NO - NODE IS NOT ACCEPTING NETWORD JOB INHERITANCE

COMPLETING INSTALLATION TASKS

- DEFINING THE VSAM CLUSTERS
  - PRIMARY
  - ALTERNATE
  - BACKUP (SEQUENTIAL)

- INITIALIZING THE VSAM CLUSTERS
  - ACFUSER

- MODIFING THE ACF2 PROCEDURE
  - 'SYS1.PROCLIB'
  - 'SYSUT1 DD'
  - BACKUP CPUID =
  - SHARED DASD

- MODIFICATIONS TO 'SYS1.PARMLIB'
  - COMMNDxx (MVS)
  - CMDxxxxx (VS1)
  - SMFPRMxx (MVS)
  - SMFxxxxx (VS1)
  - IEFSSNxx(MVS SP1.3)

COMPLETING INSTALLATION TASKS (con't)

UID Construction - Adding Fields SYS1.ACFMAC

USERLID

```
LIDDEPT  DS  CL2          2 CHAR DEPARTMENT CODE  00001600
LIDSITE  DS  C            1 CHAR REMOTE LOCATION  00001700
```

USERCFDE

```
@CFDE    DEPT,LIDDEPT,CHAR,LIST=ALL,                  x02290010
         ALTER=SECURITY+ACCOUNT,PRTN=1,RRTN=1          02290020
@CFDE    SITE,LIDSITE,CHAR,LIST=ALL,                  x02290030
         ALTER=SECURITY+ACCOUNT,PRTN=1,RRTN=1          02290040
```

ACFFDR

```
@UID     SITE,DEPT,LID
```

COMPLETING INSTALLATION TASKS (con't)
TSO UADS CONSIDERATIONS

* MAY HAVE TO MODIFY INSTALLATION LOGON PRE-PROMPT, POST-VALIDATION, OR SUBMIT EXITS

* MULTIPLE PASSWORDS PER LOGONID NOT SUPPORTED

* FOR UADS=YES
  - MUST DEFINE INITIAL LOGONID (E.G.,ACFUSER) WITH PRIVILEGES AND PROF MSGID WTPMSG ON UADS
  - ONLY A FEW ACF2 TSO-RELATED LOGONID VALUES WILL BE USED
  - FILE SYNCH CONSIDERATIONS
  - ZAP REQUIRED TO IKJEFLE

* FOR UADS=NO
  - INSTALLATION EXITS ONLY GET CONTROL IF VALID USER
  - NO UADS VALUES ACTIVE, EXCEPT AS TRANSFERRED TO ACF2'S LOGONID RECORDS
  - MULTIPLE ACCOUNTS AND PROCS PER USER ARE HANDLED DIFFERENTLY
  - PROFILE CONSIDERATIONS (CLIST)

* PASSWORD-PROTECTED DATASET PROMPT WILL REQUIRE USER REPLY

COMPLETING INSTALLATION TASKS (con't)

- GSO CONTROL RECORDS
  - *OPTS* *STC/NOSTC*
    UADS/NOUADS
    MODE=LOG/WARN/ABORT/QUIET/RULE
    LIDRECL(512/1024)
  - *PSWD* *MINPSWD(1)*
  - *DDSN* *ACF2 cluster names & ALTS*
  - *LINKLST* *Logical extension to "LINKLIST" for program pathing*

Revised: 10/10/84

CONCATENATED JOBLIB/STEPLIB LINKLST RECORD

JOBLIB/ STEPLIB	LINKLST		RULE USED
SYS1.ALIB SYS1.BLIB	SYS1.ALIB SYS1.BLIB	=	SYS1.LINKLIB
SYS1.ALIB SYS1.BLIB SYS1.CLIB	SYS1.ALIB SYS1.BLIB	=	SYS1.CLIB
SYS1.ALIB SYS1.BLIB SYS1.CLIB SYS1.DLIB	SYS1.ALIB SYS1.BLIB	=	UNKNOWN.LIBRARY

Revised: 10/10/84

GETTING

TO

CHECK POINT

3

CONVERTING UADS 'ACF2.ACFJOBS'

- UADSJOB
- UADCLIST
- UADXLATE

Revised: 5/3/83

INSTALLING ACF2 INTERCEPTS

Standard MVS

- ***POSTJOB***

MVS/SE2 or MVS/SP

- ***POSTSEJB***

DF/EF Systems

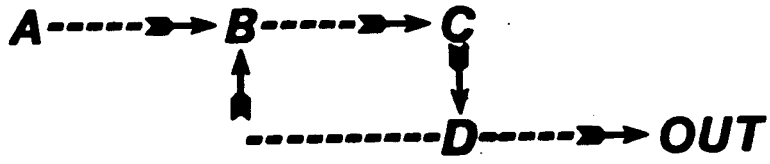
- ***POSTEFJB***

MVS/XA Systems

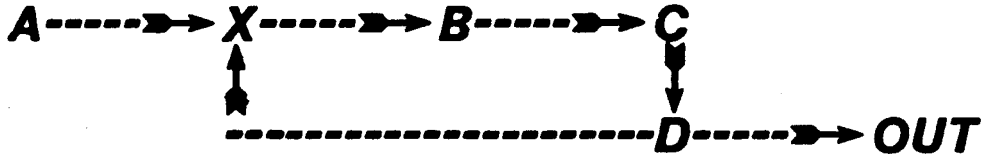
- ***POSTXAJB***

WHAT POSTJOB DOES

☐Current IBM Load Module Z:



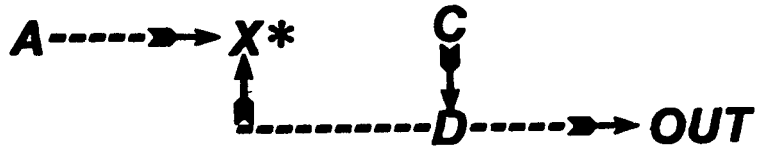
☐ACF2 Intercept X to Frontend B:



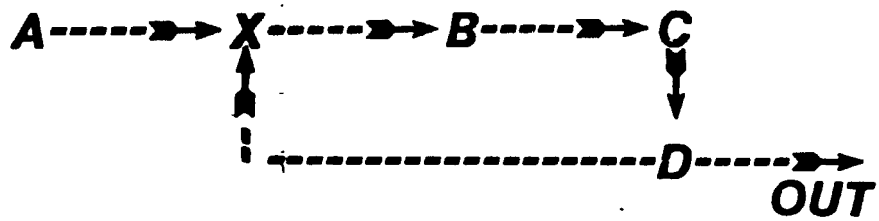
☐Process to Install Intercepts

Include MYLIB(X) ***X****

Change B(X)
Include SYSLIB(Z)



Include SYSLIB(Z)



☐IEHIOSUP

****External reference to B is unresolved***

ACF2/MVS INTERCEPTS

SYSTEM FUNCTION	MVS LMOD	ACF2 FRONTEND TO THE MODULE	ACFMAC MEMBER
DATASET OPEN(DADSM)	IGC0001E	IFG0196V	LNK0196V
DATASET E-O-V	IGC0005E	IFG0553X	LNK0553X
TAPE OPEN & E-O-V	IFG0194A	IFG0194A	LNK0194A
VSAM OPEN	IFG0192A	IFG0192A	LNK0192A
CATALOG MANAGEMENT	IGG0CLA1	IGG0CLA1	LNK0CLA1
DF/EF SYSTEMS	IGGEFLA1	IGGEFLA1	LNKEFLA1
CVOL PROCESSOR	IGG0CLCA	IGG0CLCA	LNK0CLCA
DADSM NEW DATASET ALLOC	IGC0003B	IGC0003B	LNK0003B
DADSM SCRATCH	IGC0002I	IGC0002I	LNK0002I
DADSM RENAME	IGC00030	IGC00030	LNK00030
TSO TMP EXITS:			
POST-COMMAND	IKJEFT02	IKJEFTA2	LNKTSO
PRE-COMMAND		IKJEFTB2	
TSO LOGON			
PRE-PROMPT EXIT	IKJEFLA	IKJEFLD	LNKEFLD
SMF EXITS	IEFSD060	IEFUJI*	LNKUXI
		IEFUSI*	
	IEFW21SD	IEFACTRT*	LNKACTRT
SMF EXITS (MVS/SE2/SPx)	IEFUJI	IEFUJI*	LNKSEUJI
	IEFUSI	IEFUSI*	LNKSEUSI
	IEFACTRT	IEFACTRT*	LNKSETRT

* ACF2 USES SMF DRIVER EXITS TO CALL THESE MODULES.

Revised: 1/23/84

ACF2/VS1 INTERCEPTS

FUNCTION	VS1 LMOD	ACF2 FRONTEND TO MODULE	ACFMAC MEMBER	LIBRARY
DATASET OPEN (DADSM)	IFG0196V	IFG0196V	LKV0196V	SVCLIB
DATASET EOV	IFG0553X	IFG0553X	LKV0553X	SVCLIB
TAPE OPEN/EOV	IFG0194H	IFG0194H	LKV0194H	SVCLIB
VSAM OPEN	IFG0192A	IFG0192A	LKV0192A	SVCLIB
CATALOG MANAGEMENT	IGGOCLA1	IGGOCLA1	LKVOCLA1	SVCLIB
CVOL PROCESSOR	IGGOCLCA	IGGOCLCA	LKVOCLCA	SVCLIB
DADSM NEW DATASET ALLOCATE	IGC0003B	IGC0003B	LKV0003B	SVCLIB
DADSM SCRATCH	IGC0002I	IGC0002I	LKV0002I	SVCLIB
DADSM RENAME	IGC00030	IGC00030	LKV00030	SVCLIB
TAPE OUTPUT EOV	IFG0551X	IFG0551X IFG0550P	LKV0551X	SVCLIB
TAPE OUTPUT EOV	IFG0552J	IFG0553D EMODVOL1	LKV0553D	SVCLIB
TAPE INPUT EOV	IFG0553D	IFG0553D	LKV0553D	SVCLIB
SMF EXITS	IEFSD162 IEFUSI	IEFUJI	LKVUXI	LINKLIB
JES - INPUT SERVICE	IEFJES	IEFVMB IEFVMC	LKVJES	LINKLIB
JCL INTERPRET	IEFIRC	IEFVH1	LKVIRC	LINKLIB
SVCLIB FORMATTER	IEHIOSUP	IEHIOSUP	LKVIOSUP	LINKLIB

ACF2 INTERCEPT PRESENCE VIA "SHOW ACTIVE"

INTERCEPT	ACF2	LMOD	NOTE
DASD-ALLOC	ACF9603B	IGC0003B	
DASD-OPEN	ACF9096V	IGC0001I IFG0196V	
DASD-EOV	ACF9153X	IGC0005E IFG0553X	1
DASD-SCRATCH	ACF9802I	IGC0002I	2
DASD-RENAME	ACF97030	IGC00030	
VSAM-OPEN	ACF9292A	IFG0192A	
TAPE-OPEN	ACF9394A ACF0194H	IFG0194A IFG0194H	
TAPE-EOV	ACF9394A ACF0194H	IFG0194A IFG0194H	
CATALOG	ACF95LA1	IGG0CLA1	
CAT-CVOL	ACF94LCA	IGG0CLCA	3
JOB-INIT	ACF9BUJI	IEFUJI/IEFSD060	
JOB/STEP TERM	ACF87TRT	IEFACTRT/IEFW21SD	
PROGRAM-VALD	ACF9AUSI	IEFUSI/IEFSD060	
TSO	ACF83TB2	IKJEFT02	
USERCALL			4
EXTERNAL CALL			5
IEHIOSUP	ACFIOSUP	IEHIOSUP	

NOTE:

1 - DATASET CONCATENATION (NOT BPAM)
2 - VTOC ENTRY DELETION
3 - OLD OS CAMLIST WITH CVOL SPECIFICATION
4 - DS VALIDATION FOR USER OWNING ADDRESS SPACE
5 - DS VALIDATION FOR MUSASS

FOR ACF2 EXITS, USE "SHOW ACTIVE"

THE FIRST IPL

- Start ACF2
  - *AUTO = AUTOACF2 (VS1)*
  - *Execute ACFCK (VS1)*
- "ACFUSER" Logonid
- User Issues:
  - *Show Active*
  - *Show State*
  - *LIST **
- Define Logonids
- Define Rules for the High Level Index of "SYS1"
- Test Recovery Procedure
  - *F ACF2, Backup*
- Test Report Generators

Revised: 3/8/83

ADDITIONAL

INSTALLATION

CONSIDERATIONS

SYSTEM PROGRAMMER'S GUIDE

- Details of how ACF2 Works
- Exit Descriptions
  - Sample Exit Code
- MACRO Descriptions
- Control Block Descriptions
- SMF Record Layouts

USER MODIFICATIONS CATALOG

- User written modifications
- Sample ACF2 control forms
- User modification submission form

ACF2 BACKUP PROCEDURE

WHAT CAN CAUSE A BACKUP?

- BACKUP GSO RECORD
- F ACF2,BACKUP

FOUR STEP PROCESS

STEP 1: ACF2 PLACES RESERVE ON PACK.

STEP 2: DATABASE IS SEQUENTIALLY COPIED TO THE DATASET THAT IS POINTED TO BY THE 'SYSUT1' DDCARD IN THE ACF2 START-UP PROC.

STEP 3: ACF2 RELEASES RESERVE ON PACK.

STEP 4: THE 'SYSUT1' COPY IS COPIED TO THE BACKUP DATASET AS DEFINED IN THE FDR @DDSN MACRO.

Revised: 10/22/84

ACF2 BACKUP PROCEDURE CONSIDERATIONS

- F ACF2,BACKUP ALSO WILL EXECUTE THE STRING = PARM FROM BACKUP RECORD

- RULES SHOULD BE WRITTEN TO RESTRICT ACCESS TO ACF2 DATASETS.

Revised: 10/22/84

ACF2 RECOVERY PROCEDURE

STEP 1: USER REPRO'S THE ACF2 BACKUP DATASET TO A WORKING VSAM DATASET (POSSIBLY ALT CLUSTERS)

STEP 2: RUN ACFRECVR

- SMFXXXXX DD CARDS POINT TO SMF INPUT DATASETS. THESE CAN BE VSAM OR NON-VSAM ON TAPE OR DISK.
- THE WORKING VSAM DATASET ESTABLISHED IN STEP 1 WILL BE UPDATED BASED ON PARMS SPECIFIED IN ACFRECVR.

ACF2
OPERATOR COMMANDS

Start Command

MVS	VS1
■ S ACF2[,PARM=]	S ACF2.PN[,PARM=]

PARM FIELD VALUES:

NOBACKUP

COMMAND("STRING")

DDSNS("DSN-GROUP")

SYSID(SYSID)

Stop Command

■ P ACF2

Modify Command

■ F ACF2,BACKUP

■ F ACF2,RESET(LOGONID)

■ F ACF2,RELOAD(RULE-ID)

■ F ACF2,REBUILD(DIRECTORY-TYPE)

■ F ACF2,NEWXREF

■ F ACF2,NEWSHIFT

Revised: 10/10/84

SYSTEM ACCESS WITHOUT ACF2

- ACF2 Stopped after Started up
  - New Jobs Flushed
  - No TSO Allowed
  - Operator Intervention for all Jobs
  - STC's are Allowed

- ACF2 Never Started (IPL's with COMMNDxx)
  - New Jobs Allowed into System
  - TSO
    - Allowed with 'force' logon
    - Userid must be defined to 'UADS'
  - Operator Intervention for all Jobs
  - STC's Allowed

Revised: 07/30/83

PRE-IPL INSTALLATION REVIEW

* JOB3 SERIES BUILT THE ACF2 SYSTEM DATASETS
* DEFINE AND INITIAL JOBS HAVE BUILT AND INITIALIZED THE ACF2 VSAM CLUSTERS
* FDRJOB BUILT THE INITIAL ACFFDR
* CONVERSION CLIST TESTED
* JES MODS CHECKED
* SYSTEM MODS FOR PPT AND SSCVT CHECKED
* IF PCF, ALLOW ACF COMMAND
* POSTJOB RUN AND RETURN CODES CHECKED
* IPL WITH CLPA

Revised: 3/4/83

acf2

The Access Control Facility

INSTALLING acf2/MVS 4.0

SYSTEM PROGRAMMERS GUIDE

* DEALS WITH PHYSICAL INSTALLATION
* STEP-BY-STEP DIRECTIONS TO REACH THE FIRST IPL
* SUPERFICIAL COVERAGE OF PRODUCT INTERACTION
* COVERAGE

  - *UNLOAD TAPE*
  - *SYSTEM PTF'S*
  - *PROCEDURES*
  - *SMP CONTROLLED JOBS*
  - *CLUSTER DEFINITION AND INITIALIZATION*
  - *OPTIONAL SYSTEM PTF'S*
  - *ACFFDR GENERATION*
  - *FIRST IPL*

Revised 10/17/84

INSTALLATION CONSIDERATIONS

* *MVS Release 3.8A - PUT 7909*

* *MVS/SE1, SE2, SP or XA*

* *SMP Release 4.12 or Higher*

* *JOB ENTRY SUBSYSTEMS SUPPORTED UNCHANGED FROM ACF2/MVS 3.1.5*

* *TWO SVC'S*

  VALD=221

  ALTER=222

* *SMF CONSIDERATIONS*

  ONE SMF RECORD

  DEFAULT=230

  -IEFU83 SMF EXIT - DO NOT SUPPRESS TYPE 230

10/08/84

INSTALLING THE FMID (JOB2 SERIES)

- HELP MEMBERS ADDED TO

  'SYS1.HELP'

- ACF2 CODE ADDED TO

  'SYS1.LPALIB', 'SYS1.LINKLIB'

- CREATE

  - *SYS1. ACFMOD*
  - *SYS1. ACFMAC*
  - * *MACROS AND SOURCE MODULES*
  - * *USER MODIFIABLE SOURCE AND MACROS*

- SYS1.PROCLIB

  - *ACFASM*
  - *ACFSMP4/ACFSMPE*
  - *ACFLINK*
  - *ACFRECVR*
  - *ACFBKUP*
  - *ACFBKUPI*

Revised: 10/17/84

ACF2/MVS 4.0 INSTALL

ESTABLISHING THE ACFSMP4/ACFSMPE

PROCEDURE

(JOB1 PROC)

DEFINES DRIVING SYSTEM ENVIRONMENT

- *TARGET SYS1.PROCLIB*
- *SYSTEM DATASET HIGH LEVEL INDEX*
- *ACF2 DATASET HIGH LEVEL INDEX*
- *OTHER DATA ABOUT THE SYSTEM*

Revised: 10/17/84

(JOB2 SERIES)

SMP Libraries

- ***FMID ACF4000***

JES2/JES3 UPDATES

CHECK JES2 or JES3 CONSIDERATIONS

- ***No changes from 3.1.5***

PRIMARY INSTALL NOW COMPLETE!

10/09/84

COMPLETING INSTALLATION TASKS

DEFINE TWO SVC'S @CSVC

VALD = 221

ALTER= 222

DEFINE SMF RECORD @SMF

DEFAULT= 230

NAME PRIMARY, BACKUP AND ALTERNATE VSAM CLUSTERS @DDSN

RUN FDRJOB SMP/4

FDRJXB SMP/E

COMPLETING INSTALL TASK

- *DEFINING THE VSAM CLUSTERS*
  - *Primary*
  - *Alternate*
  - *Backup (sequential)*

RUN DEFINE JOB

- *INITIALIZING THE VSAM CLUSTERS*
  - *Establish ACFUSER*

RUN INITIAL JOB

- *MODIFING THE ACF2 PROCEDURE*
  - *SYS1.PROCLIB*
  - *SYSUT1 DD*
  - *Shared DASD*
  - *Backup CPUID=*

- *MODIFICATIONS TO `SYS1.PARMLIB´*
  - *COMMNDnn -*
  - *IEFSSNnn (MVS SP1.3)*

GSOAID

ACFFDR TO CONVERSION AID

CONVERTS R3.1.3-R3.1.5 ACFFDR

STEP 1 - ***OBTAINS CURRENT FDR LOAD MODULE AND GENERATES "DATABASE READY" GSO RECORDS FOR R4.0.***

STEP 2 - ***INSERTS THOSE RECORD INTO THE INFOSTORAGE DATABASE.***

*REQUIRES "SECURITY" TO RUN GSOAID

10/10/84

acf2

The Access Control Facility

MAINTENANCE

3/8/83

ACF2
MAINTENANCE

INSTALLATION/ MAINTENANCE TAPE

* SIMPLE STEP-BY-STEP PROCESS
* SMP MANAGED
* MODULES, MACROS, AND JOBSTREAMS
* BUILT TO BE COMPLETELY INSTALLED
* MERGED INTO INSTALLATION TAPE
* CHECK-OFF BOXES ☑

Revised: 7/30/83

MAINTENANCE PHILOSOPHIES

I B M

1. MAINTENANCE SHOULD BE CURRENT.
2. SELECTABLE TYPES OF MAINTENANCE.
3. ACF2 CONSIDERATIONS

S K K

1. REGULAR, CURRENT MAINTENANCE ENCOURAGED.
2. INSTALLATION/MAINTENANCE TAPE
3. FLASHES

Revised: 9/1/82

APPENDIX G - SYSTEM PTF CHART

ACF2 SYSTEM AND INSTALLATION PTFS FOR MVS

MVS MOD/MAC	DISTRIB-UTION LIBRARY	ACF/PTF	ORIGINAL ACF2 SOURCE	MODULE LEVEL-IBM/PTF	ORIGINAL IBM PTF SOURCE	FMID	NOTE
IKJEFLE	AOST4	TT70057-Z	ACF221	UZ24117	PUT7903	EBB1102	1
		TT70067-Z	TUMS02	UZ90055	PUT7908	JBB1112	
		TT70077-Z	TUMS02	UZ27325	PUT7911	EBB1102	
		TT70137-Z	TUMS04	UZ27326	PUT7911	JBB1112	
		TT70087-Z	TUMS02	UZ28125	PUT8002	JBB1112	
		TT70097-Z	TUMS02	UZ28110	PUT8002	EBB1102	
		TT70107-Z	TUMS03	UZ31816	PUT8009	JBB1112	
		TT70127-Z	TUMS04	UZ32856	PUT8010	JBB1112	
		TT70147-Z	TUMS05	UZ35091	PUT8103	JBB1112	
		TT70157-Z	ACF313	UZ55178	PUT8201	JBB1112	
		TT70177-Z	ACF313	UZ54079		EBB1102	
		TT70187-Z	ACF313	UZ55177	PUT8204	EBB1102	
		TT70197-Z	ACF313	UZ55179	TSO/E	JBB1113	
		TT70207-Z	ACF314	UZ55893	PUT8210	EBB1102	
		TT70217-Z	ACF314	UZ55894	PUT8210	JBB1112	
		TT70227-Z	ACF314	UZ55895	PUT8210	JBB1113	
		TT70237-Z	ACF314	UZ59807	PUT8301	EBB1102	
		TT70247-Z	ACF314	UZ59805	PUT8301	JBB1112	
SGIEFOPT	AMODGEN	TT70015-U	TUMS02	UZ23961	PUT7911	EBB1102	
		TT70025-U	TUMS05			JBB1326	
SGIEFOSS	AMODGEN	TT70008-U	ACF221			EBB1102	
IEDAYW	AOS21	TT70010-Z	ACF221			ETC0108	
		TT70020-Z	TUMS02	UZ26841	PUT7910	ETC0108	
		TT70030-Z	TUMS04	UZ31035	PUT8006	ETC2202	
		TT70050-Z	TUMS04	UZ31033		ETC0108	
		TT70060-Z	TUMS04	UZ31035		ETC2202	
		TT70070-Z	TUMS04	UZ32954		ETC0108	
		TT70080-Z	TUMS04	UZ32956		ETC2202	
		TT70090-Z	TUMS05	UZ32956		ETC2202	
		TT70100-Z	ACF314			ETC2402	
IEDQ21	AOS21	TT70040-R	ACF221			ETC2202	
		TT70110-R	ACF314			ETC2402	

NOTE 1 - THE APPROPRIATE ACF2 PTF IS REQUIRED IF THE UADS=YES OPTION IS USED.

Revised: 1/23/84

ACF2

PRODUCT

SUPPORT

3/8/83

PRODUCT SUPPORT

Phone Support

* DURING NORMAL WORKING HOURS: MON - FRI 9 A.M. - 5 P.M. LOCAL TIME

  ROSEMONT ILLINOIS USA
  SKK, INC.
  312-635-3000

* EMERGENCY SITUATION: 24 HOURS, 7 DAYS/WEEK

  USA TELEPHONE 312-825-5150

TECHNICAL SUPPORT

ADMINISTRATIVE SUPPORT

STARS

* INTERNAL TRACKING SYSTEM FOR ALL REPORTED PROBLEMS
* INFO SYSTEM

Revised: 5/3/83

PROBLEM REPORT CHECKLIST

COMPANY INFORMATION

1. ACCT#
2. YOUR NAME
3. COMPANY NAME
4. YOUR PHONE NUMBER
5. (OPT) TELEX NUMBER

ENVIRONMENT

1. OPERATING SYSTEM (MVS-SE, MVS-SP, VS1)
2. OS MAINTENANCE LEVEL
3. MAINTENANCE
4. ACF2 RELEASE LEVEL
5. (OPT) CICS/IMS LEVEL

PROBLEM

1. SYMPTOM
2. IS IT REPEATABLE
3. MATERIALS AVAILABLE
   - A. CONSOLE LOG
   - B. REPORT LISTINGS
   - C. DUMP
   - D. TSO SESSION LISTING
   - E. MESSAGES ISSUED (IBM AND ACF2 WITH ID NUMBERS)
4. SUSPECTED PROBLEM

acf2

The Access Control Facility

IMS/CICS

SUPPORT

3/8/83

ACF2
IMS/CICS
INTERFACES

- ALLOW FOR THE CONTROL OF
  - SIGN-ON VALIDATION
  - IMS/CICS TRANSACTION VALIDATION
  - IMS APPLICATION GROUP VALIDATION
  - CICS PROGRAM FILE TRANSACTION, TEMPORARY STORAGE, TRANSIENT DATA AND DL/I VALIDATION

- USES A 'MINI-ACFFDR' TO CONTROL IMS/CICS

Revised: 10/10/84

ACF2/IMS PARAMETER SELECTION

```
@IMS    DFTLID=IMSDFLT/LOGONID,          DEFAULT LOGONID
        RELOAD=RELOAD/TRANS-NAME,        RELOAD TRANSACTION NAME
        QNAME=SYSIKJUA/QNAME,            ENQ MAJOR QUEUENAME
        MAXVIO=10/NNN,                   MAXIMUM VIOLATIONS/SESSION
        SUSPEND=YES/NO,                  SUSPEND AT MAX VIO
        MODE=ABORT/LOG,                  SYSTEM MODE
        AUTH=(LIDM2FLG/FIELD,LIDM2IMS/BITMAP),
                                         AUTH ATTRIBUTE
        DCWTO=YES/NO,                    ONLINE WTO CONTROL
        BMPWTO=YES/NO,                   BMP WTO CONTROL
        ROUTE=(8,9,11)/ROUTE,            WTO ROUTING CODES
        DESC=0/DESC,                     WTO DESCRIPTOR CODES
*
*       ***RESOURCE TYPE SPECIFICATIONS
*
        AGN=IAG/TYPE/IGNORE,             APPL GROUP NAME
        TRN=ITR/TYPE/IGNORE,             TRANS FROM TERMINAL
        TLK=TYPE/IGNORE,                 TRANS FROM MSC LINK
        PTP=ITR/TYPE/IGNORE,             PROG TO PROG SWITCH
        CDL=ITR/TYPE/IGNORE,             CHANGE DL/I CALL
        SET=ITR/TYPE/IGNORE,             /SET COMMAND
        LCK=TYPE/IGNORE                  /LOCK COMMAND
```


Revised: 3/4/83

ACF2/IMS GENERATION

- Module goes into SYS1.LPALIB
- Alters IMS stage 1 input
  - *@IMSGEN PARM=xxx*

EXAMPLES

- If '@IMSGEN PARM=IMS'

  The SYS1.LPALIB member will be 'ACF$IIMS'

- If '@IMSGEN PARM=TIM'

  The SYS1.LPALIB member will be 'ACF$ITIM

ACF2/CICS
"SAFE" RESOURCES

TRANS	-	CICS TRANSACTIONS
PROGRAM	-	CICS PROGRAMS
FILE	-	CICS FILES
TRANDATA	-	TRANSIENT DATA
TEMPSTRG	-	TEMPORARY STORAGE
DL/I	-	DL/I

Revised: 10/10/84

ACF2/CICS
PARAMETER SELECTION

ABCODE=SEC/nnn	ABEND CODE PREFIX
ACMCBEXT=0/nnnn	ACMCB EXTENSION LENGTH
ANCHOR=STANDARD/TCTTE/modname	ACMCB ANCHOR MODE.
AUTH=CICS/ffffffff	AUTHORIZATION MASK IN LID FOR CICS
CACHE=5/n	NUMBER OF INTERCEPT CACHE ENTRIES.
CSSF=CSSF/tttt	LOGOFF TRANSACTION CODE.
CSSN=CSSN/tttt	LOGON TRANSACTION CODE.
DCON=NO/YES/PERM	DISCONNECT ON VIOLATIONS.
DFTATI=dftlid-name/dddddddd	ATI DEFAULT LOGONID.
DFTLID=dddddddd	DEFAULT LOGONID.
ENQUEUE=SYSIKJUA/NO/majorname	ENQUEUE NAME
EXIT=xxxxxxxx	USER WRITTEN EXIT NAME
EXITINIT=NO/YES	USER WRITTEN EXIT AT INIT TIME?
EXITLIDR=NO/YES	USER WRITTEN EXIT AT MRO TIME?
EXITMSG=NO/YES	USER WRITTEN MESSAGE PROCESS EXIT?
EXITPOSV=NO/YES	USER WRITTEN POST VALD EXIT?
EXITPREV=NO/YES	USER WRITTEN PRE VALD EXIT?
EXITPRUD=NO/YES	USER WRITTEN PASSWORD RE-VALD EXIT?
EXITSHUT=NO/YES	USER WRITTEN SHUTDOWN EXIT?
EXITSNOF=NO/YES	USER WRITTEN SIGN-OFF EXIT?
EXITSNON=NO/YES	USER WRITTEN SIGN-ON EXIT?
EXITUDEV=NO/YES	USER WRITTEN UNSUPPORT DEV EXIT?
GMTEXT='text'	ACF2 GOOD MORNINGTEXT
IDLE=YES/NO	CHECK PASSWORD IF IDLE TIME EXP
INACT=YES/NO	DO SIGNON INSTEAD OF PRP
LOGON L=11111111,T=tttt	AUTOMATIC TERMINAL SIGNON
MAXVIO=10/nnnn	MAX VIOLATIONS BEFORE ACTION.
MODE=ABORT/QUIET/LOG	ACF2 OPERATIONAL MODE.
MRO=YES/NO	PASS ACF2 BLOCKS TO MRO SYSTEMS.
NEWPASS=YES/NO	CHANGE PASSWORDS WITHIN CICS?
OPTION RPL	LOAD ACF2/CICS MGT FROM DFHRPL?
SHORT=NO/YES	ALLOW SHORT SIGN-ON FORMAT.
SIGNAPP=NO/program-name	USER WRITTEN SIGN-ON PROGRAM
SIGNON=YES/NO	SIGN-ON REQUIREMENT.
SLOTS=nnn	INSTG CONTROL BLOCK SLOTS
SUBTASK=LOGON/RULE/ALL/NO	ALL, LOGON, RULE, NO.
SUSPSWD=NO/YES	SUSPEND LID ON PASSWORD VIOL.
SUSVIOL=NO/YES	SUSPEND LID ON RULE VIOL.
TRACEID=174/nnn	ACF2 INTERNAL TRACE ID.
VALCONS=YES/NO	VALIDATE OPER CONS XACTIONS?
VERIFY=YES/NO	INITIATE VERIFY IF REQUESTED.
WTO text	INIT MESSAGE
WTOI=NO/YES	DISPLAY ALL MESSAGES.
WTOIDSC=(6/disc1,...,disc16)	DISPLAY WTO DESCRIPTER CODES.
WTOIRTE=(8,9,11/code1,...,code16)	DISPLAY WTO ROUTING CODES.
WTOSDSC=(6/disc1,...,disc16)	SECURITY WTO DESCRIPTER CODE.
WTOSRTE=(8,9,11/code1,...,code16)	SECURITY WTO ROUTING CODES.
WTOV=NO/YES	WTO VIOLATIONS.
WTOVDSC=(6/desc1,...,desc16)	VIOLATION WTO DESCRIPTER CODE.
WTOVRTE=(8,9,11/code1,...,code16)	VIOLATION WTO ROUTING CODES.

*

```
CICSKEY RESOURCE=FILE,OPTION=VALIDATE,TYPE=CFC,DISPLAY=NO
CICSKEY RESOURCE=PROGRAM,OPTION=VALIDATE,TYPE=CPC,DISPLAY=NO
CICSKEY RESOURCE=TRANS,OPTION=VALIDATE,TYPE=CKC,DISPLAY=NO
```

ACF2/CICS
PARAMETER SELECTION

```
CICSKEY RESOURCE=TRANDATA,OPTION=VALIDATE,TYPE=CTD,DISPLAY=NO
CICSKEY RESOURCE=TEMPSTRG,OPTION=VALIDATE,TYPE=CTS,DISPLAY=NO
CICSKEY RESOURCE=MROSYS,OPTION=VALIDATE,DISPLAY=NO
*
USERKEY RESOURCE=ACF2CTRL,TYPE=MTP,OPTION=VALIDATE
*
SAFELIST RESOURCE=FILE,ENTRY=TEST****
SAFELIST RESOURCE=PROGRAM,ENTRY=TEST****
SAFELIST RESOURCE=TRANS,ENTRY=ACFM
*
PROTLIST RESOURCE=FILE,ENTRY=TESTSYS1
PROTLIST RESOURCE=PROGRAM,ENTRY=TESTSYS1
```


Revised: 10/10/84

ACF2/CICS PARAMETER SELECTION

SAFELIST

* Allows quick path access to resource

* Masking of resource name allows user to define one mask for multiple resources

* Two operands

  RESOURCE=FILE/PROGRAM/TRANS/TRANDATA/TEMPSTRG/DL/I

  ENTRY=RESOURCE NAME

* EXAMPLE: To bypass validation of all PAY* transactions

  CODE: SAFELIST RESOURCE=TRAN,ENTRY=PAY*

Revised: 10/10/84

ACF2/CICS PARAMETER SELECTION PROTLIST

. Allows selective SAFELIST entries to be protected

. Two Operands

RESOURCE=FILE/PROGRAM/TRANS/TRANDATA/ TEMPSTRG/DL/I

ENTRY=RESOURCE NAME

EXAMPLE: ***To bypass SAFELIST entry***

CODE: PROTLIST RESOURCE=TRAN,ENTRY=PAY1

10/10/84

ACF2/CICS PARAMETER SELECTION CICSKEY

* Defines the type of resources ACF2 is required to do validation for

* One Macro card for each type of resource

* Four Operands

  RESOURCE=FILE/PROGRAM/TRANS/TRANDATA/TEMPSTRG/DL/I

  OPTION=VALIDATE/IGNORE

  KEY=xxx - TYPE DEFINED FOR RESOURCE

  DISPLAY=YES/NO - DISPLAY SAFELIST AT CICS STARTUP

* This Macro will cause ACF2 to validate CICS file requests

EXAMPLE:

```
CICSKEY RESOURCE=FILE,
OPTION=VALIDATE,
KEY=CFC,
DISPLAY=NO
```


Revised: 10/17/84

ACF2/CICS
USER LOCAL RESOURCE SUPPORT
USERKEY

- Allows for Locally defined CICS resources

EXAMPLE:

USERKEY RESOURCE=MYRSCE1,KEY=XYZ,
DISPLAY=NO

USERKEY RESOURCE=UO2,KEY=ABC, DISPLAY=NO

USERKEY RESOURCE=MYRSRCEX,KEY=CBS,
DISPLAY=NO

Revised: 10/17/84

INSTALLING THE ACF2/CICS 4.0 SYSTEM AN OVERVIEW

- LOAD ACF2 SUPPLIED MODULES TO A LOAD LIBRARY

  all in SMP format

* BUILD PARAMETER FILE WITH YOUR OPTIONS

- MODIFY and ASSEMBLE CICS CONTROL TABLES

  Startup PLT must include ACFAESIP
  PPT must contain interface CICS programs
  PCT must contain interface transactions

- MODIFY YOUR CICS STARTUP JCL by ADDING the following:

  //ACF2PARM DD DSN= (your parameter file)
  //ACF2STRG DD DSN= (BDAM work data set)

- START UP YOUR CICS SYSTEM

  YOUR INSTALLATION IS COMPLETE FOR YOUR CICS REGION

Revised: 10/17/84

MASTER TERMINAL TRANSACTION

ACF2 provides a MASTER TERMINAL control transaction which may be used as an interactive monitor and allow modification of the executing ACF2/CICS environment.

1) *REPLACES ALL PREVIOUS ACF2 SUPPLIED CONTROL TRANSACTIONS*

2) *LID MAINTENANCE IN SAME FORMAT AS THE TSO ACF COMMAND*

3) *TUTORIAL SCREENS FOR ALL FUNCTIONS*

4) *RELOAD CICS LOCAL SYSTEM DIRECTORIES AND RULES*

5) *RELOAD CICS LOCAL USER DIRECTORIES AND RULES*

6) *DISPLAY/MODIFY ACF2/CICS SYSTEM PARAMETERS*

7) *DISPLAY USERS SIGNED ON TO THE SYSTEM*

8) *PERFORM SIGNON/SIGNOFF FUNCTIONS TO ANY TERMINAL*

9) *CRITICAL FUNCTIONS ARE CONTROLLED BY GENERAL RESOURCE RULES WHICH ARE SPECIFIED AT THE FUNCTION ID LEVEL*

 Revised: 10/18/84

IDMS BASE RELEASE SUPPORT

IDMS-DC	Release 2.0 or above
IDMS-DB	Release 5.7 or above
acf2/MVS	Release 3.1.3 or above

Revised: 10/18/84

ACF2/IDMS OPTION SELECTION

* THREE MACROS

@MOPTS

- Global parameters

@GRCE

- Defines resource types

@MOPTGEN

- Non-modifiable final macro

Revised: 10/18/84

@MOPTS MACRO

☆Can be different for each IDMS region

@MOPTS	AUTHFLD=lid-field,	EXTERNAL NAME OF IDMS LID AUTH BIT
	DFLTLID=logonid,	IDMS DEFAULT LOGONID
	FASTPATH=YES/NO,	OBTAIN WORKAREA AT INITIALIZATION
	MAXVIOS=0/nnn,	ALLOWED VIOLATIONS BEFORE LID SUSPENDED
	MINILID=xxxxxxxx,	ACFFDR @MLID ASSOCIATED WITH IDMS
	MODE=LOG/ABORT,	ACF2/IDMS OPERATIONAL MODE
	MSG='<string>',	1-64 CHARACTER GOOD MORNING MESSAGE
	MUSID=xxxxxxxx,	MUSASS IDENTIFIER
	PWDSUSP=YES/NO,	SUSPEND LID WHEN PSWD-VIO REACHED
	RFTIME=0/nnnnn,	REFRESH TIME FOR INTERCEPTS
	SIGNREQ=YES/NO,	INDIVIDUAL USER SIGNONS REQUIRED
	SIGNQNM=xxxxxxxx,	SIGNON QUEUE NAME
	SYNQNAM=0/nnnnnn,	QUEUE NAME FOR ACMSYNC
	SYNRNAM=xxxxxxx,	RNAME PREFIX FOR ACMSYNC
	USERLEN=0/nnn,	LENGTH OF USER AREA IN ACMCB
	VIOSUSP=YES/NO	SUSPEND LID WHEN MAX VIOLATIONS REACHED

@GRCE MACRO

☆One per type per region

@GRCE	INSTYPE=xxx,	INSTALLATION RESOURCE TYPE
	INTTYPE=xxx,	INTERNAL RESOURCE TYPE
	LOADDIR=YES/NO,	LOAD RESOURCE DIRECTORY AT INIT
	MAXLEN=40/nn,	MAXIMUM LENGTH OF RESOURCE NAMES
	RULES=RESIDENT/DEMAND/ TRANSIENT,	RULE STORAGE
	SLIST=(name-mask-list),	SAFELIST NAMES
	VALIDTE=YES/NO	VALIDATE OPTION

INTTYPE VALUES:

DAT - IDMS data areas
PGM - IDMS protected programs
PGN - IDMS non-protected programs
SSC - IDMS subschemas
TSK - IDMS tasks
xxx - installation defined resources

POSSIBLE INSTYPE VALUES:

DAT - IDA IDMS data areas
PGM - IPP IDMS protected programs
PGN - INP IDMS non-protected programs
SSC - ISS IDMS subschemas
TSK - ITK IDMS tasks

Revised: 10/18/84

@MOPTS CONSIDERATIONS

* FASTPATH = YES/NO

* RFTIME = nnnnn

  - ***Refresh time specified in hundredths of a second***

* SYNQNAM = nnnnnn

* SYNRNAM = nnnnnn

LOGONID FIELD

CONTROL REGIONS LOGONID

* **MUSOPT - IDMS option module name**
  - Points to the collection of ACF2/IDMS options that apply to this region

* **MUSPGM - IDMS startup program name**
  - Points to the actual IDMS program to be started

INSTALL CONSIDERATIONS

* MVS NUCLEUS regeneration required

  - *IDMS Type 1 SVC must be updated*

* JCL changes to IDMS procedure

* Update the exit definitions in the IDMS Nucleus

  - *IDMS EXIT0*

* Link ACF2 CSECTs into the IDMS Nucleus

* Regeneration of ACF2 FDR

  - *IPL with a CLPA*

* Updates to IDMS Logonid

* Choose ACF2/IDMS Options

acf2

The Access Control Facility

CONTROL BLOCKS AND SYSTEM FLOW

Revised: 10/18/84

ACF2

INITIALIZATION

ACF2 INITIALIZATION
ACFMAIN

PRIMARY FUNCTIONS:

1.) BUILD ACCVT FROM ACFFDR

2.) DATABASE ALLOCATION

3.) BUILD ACFCOM AREA

4.) BUILD RESIDENT DIRECTORIES & RESIDENT RULES

5.) BUILD INPUT SOURCE XREF TABLE

6.) BUILD TIME/SHIFT TABLES

7.) BUILD ACFASVT

OTHER FUNCTIONS:

1.) BACKUP

2.) OPERATOR COMMANDS

3.) MONITOR

4.) VSAM ERROR RECOVERY

VS1 FUNCTION:

1.) VSAM I/O PROCESSING

Revised: 07/30/83

ACF2 MACROS

1.) ACFGACVT

- CALLS ACF$GCVT TO LOCATE USING LOCAL METHOD

2.) ACFINCVT

- EXPANDS INLINE. IF LOCATE PROCESS MODIFIED WILL REQUIRE RE-ASSEMBLY.

ACF2 IS DEFINED AS A SUBSYSTEM AND THE INSTALLATION IS USING SSCTUSE FIELD AS THE ACCVT POINTER.

LIST 10.% + 128 % + 18 % + 4 % + 4 % + 8

(IF ACF2 SSCT ENTRY IS NOT THIRD ON LIST UNDERLINED AREA MUST BE MODIFIED.)

Revised: 07/30/83

ACCVT CONTROL BLOCK

ACCUSR1	+0	(0)	
2	+4	(4)	
3	+8	(8)	
4	+12	(c)	
ACCMFLG	+44	(2C)	
	x'80'		QUIET MODE - ONLY SYSTEM ACCESS IS VALIDATED.
	x'40'		LOG MODE - SYSTEM ACCESS VALIDATED ALLOW ALL ACCESSES BUT LOG VIOLATIONS
	x'20'		WARN MODE - SYSTEM ACCESS VALIDATED ALLOW ALL ACCESSES AND LOG VIOLATIONS. FOR VIOLATIONS SEND MESSAGE TO USER WARNING HIM/HER VIOLATION
	x'10'		ABORT MODE - SYSTEM ACCESS VALIDATED PREVENT ACCESS WHEN VIOLATION DETECTED. LOG REQUESTED EVENTS.
ACCWORK	+80	(50)	POINTER TO ACFMAIN WORK QUEUE, MONITOR AND VSAM ERROR RECOVERY.
ACCCOM	+84	(54)	POINTER TO ACF2 CSA COMMON AREA, VSAM ACB's, RPL's.

ACCVT CONTROL BLOCK

ACCASVT	+100	(64)	POINTER TO ACF2 ADDRESS SPACE VECTOR TABLE.
ACCSEC	+108	(6C)	BRANCH ENTRY ADDRESS FOR SECURITY SVC.
ACCTVOL	+116	(74)	PSEUDO-DSN GENERATOR EXIT ADDRESS.
ACCIEXIT	+120	(78)	DSN PRE-VALIDATION EXIT ADDRESS.
ACCVEXIT	+124	(7C)	DSN VIOLATION EXIT ADDRESS.
ACCLVXIT	+180	(B4)	TSO LOGON PRE-VALIDATION EXIT ADDRESS.
ACCLPXIT	+184	(B8)	TSO LOGON POST-VALIDATION EXIT ADDRESS.
ACCNPXIT	+188	(BC)	NEW-PASSWORD EXIT ADDRESS.
ACCEPXIT	+192	(C0)	EXPIRED PASSWORD EXIT ADDRESS.
ACCRXIT1	+196	(C4)	GENERALIZED RESOURCE PRE-PROCESSING EXIT ADDRESS.

Revised: 07/30/83

ACCVT CONTROL BLOCK

ACCRXIT2	+200 (C8)	GENERALIZED RESOURCE POST-PROCESSING EXIT ADDRESS.
ACCSVXIT	+204 (CC)	STC VALIDATION EXIT ADDRESS.
ACCPEXIT	+216 (D8)	DSN POST-VALIDATION EXIT ADDRESS.
ACCSRXIT	+240 (F0)	SOURCE NAME MODIFICATION EXIT ADDRESS.
ACCSHIFT	+248 (F8)	SHIFT TABLE ADDRESS.
ACCAUXIT	+336 (150)	SVC PRE-PROCESSING EXIT ADDRESS.
ACCSXIT1	+340 (154)	ACCESS RULE MODIFICATION PRE-PROCESSING EXIT ADDRESS.
ACCSXIT2	+344 (158)	ACCESS RULE MODIFICATION POST-PROCESSING EXIT ADDRESS.
INFSXIT1	+348 (15C)	GENERALIZED RESOURCE RULE MODIFICATION PRE-PROCESSING EXIT ADDRESS.
INFSXIT2	+352 (160)	GENERALIZED RESOURCE RULE MODIFICATION POST-PROCESSING EXIT ADDRESS.

Revised: 07/30/83

JOB

EXECUTION

JES FUNCTIONS

- ACF2 REQUIRES SUPPORT IN JESx TO

  1) INTERPRET ACF2 CONTROL INFORMATION FROM JOB CARDS OR CONTROL CARDS

  2) SYSTEM ACCESS VALIDATION (LOGONID AND PASSWORD) IF NOT ALREADY DONE. (VALIDATION CALL)

  3) ASSOCIATE THE SUBMITTOR'S LOGONID, SOURCE, AND SUBMISSION PATH WITH INTERNALLY SUBMITTED JOBS. (INFO CALL)

  4) BUILD ACFASVT ENTRY AT EXECUTION TIME.

ACF2 JCL CARDS/PARAMETERS

```
//*LOGONID LOGONID
       OR
USER=LOGONID ON JOBCARD


//*PASSWORD  OLD-PSWD/NEW-PSWD
        OR
PASSWORD=(OLD-PSWD,NEW-PSWD) ON JOBCARD


//*JOBFROM LOGONID/SOURCE          [MVS]
//*JOBFROM LOGONID/SOURCE/AUTHCODE     [VS1]
```


Revised: 7/30/83

VALIDATE SYSTEM ENTRY

TSO - VALIDATION IN LOGON PRE-PROMPT EXIT

STC - VALIDATION AT JOB INITIALIZATION

JOB - VALIDATION IN

JES2/NJE	- HASPXEQ-CONVERTER CALL
JES2 SP1.3	- HASPRDR-READER TIME
JES3	- IATUX29-JOB INPUT TERMINATION EXIT
JES	- IEFIRC

JES VALIDATION REQUIRED WHEN

- JOB ENTERS FROM "HARD" DEVICE (CARD READER, REMOTE WORKSTATION, ETC)
- INTERNAL READER JOB WAS SUBMITTED ON BEHALF OF SOME OTHER LOGONID

THE ACVALD JOB VALIDATION PARAMETER LIST

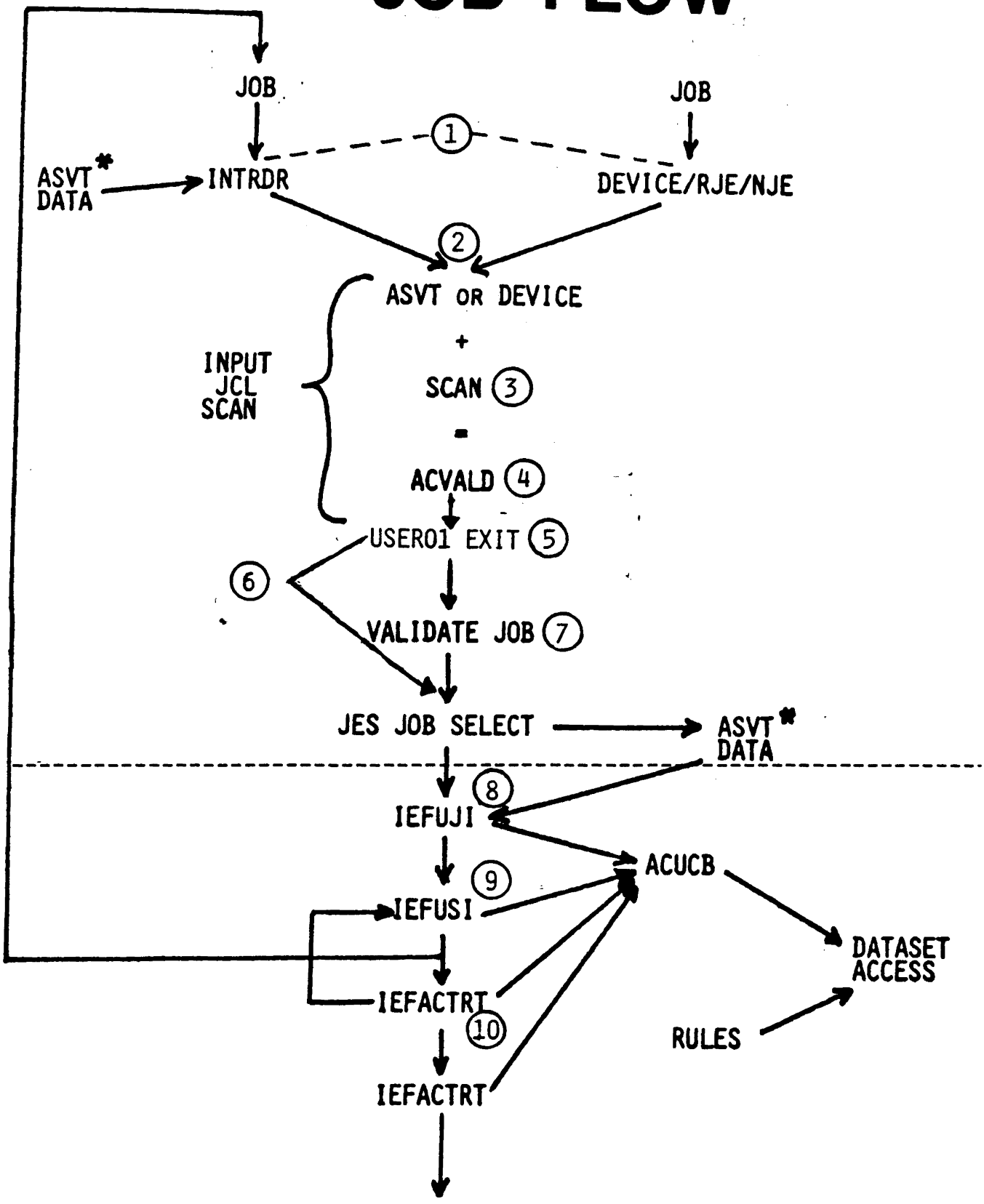
- LOGONID - IDENTIFIES USER ASSOCIATED WITH JOB
- PASSWORD - REQUIRED IF INITIAL SYSTEM ENTRY
- NEW PASSWORD - OPTIONAL AT INITIAL SYSTEM ENTRY
- SUB-LID - IDENTIFIES USER WHO SUBMITTED JOB THRU INTERNAL READER
- PROGRAM - NAME OF PROGRAM WHICH OPENED INTERNAL READER
- SUB-AUTH - AUTHORIZATION OF PROGRAM
- SOURCE - SOURCE IDENTIFIER
  - INHERITED IF INTERNAL READER
  - JES DEVICE NAME
  - 'NETWORK' IF NJE

Revised: 3/7/83

ACFASVT CONTROL BLOCK

ASVFLAG3	+2 (2)	
	X'40'	No SMC for this ADDRSPC
	X'20'	Use of JOBFROM Permitted
	X'01'	MUSASS attribute detected at system access for this ADDRSPC.
ASVFLAG4	+3 (3)	
	X'80'	Job is started task
	X'40'	Initiator is active
ASVSRC	+4 (4)	Logical source ID
ASVLID	+12 (C)	User logon ID
ASVJID	+20 (14)	JES Job ID
ASVUCB	+28 (1C)	Address of ACF2 User Control Block.

JOB FLOW



Revised: 3/8/83

JOB FLOW

1.) JOB SUBMITTED WILL BE COMING FROM INTERNAL READER OR A REAL DEVICE, AN RJE LINK OR VIA NJE.

2.) DETERMINE INPUT SOURCE - FOR INTRDR INFO FROM ACFASVT - FOR ANYTHING ELSE THE PHYSICAL DEVICE NAME IS USED.

3.) SCAN JCL FOR //*LOGONID AND //*PASSWORD SPECIFICATION.

4.) BUILD ACVALD JOB VALIDATION PARAMETER LIST

5.) PROCESS USER01 EXIT

6.) IF ACVSLID = ACVLID THEN SKIP VALIDATION.

7.) ISSUE SVCA VALIDATION

8.) UJI

9.) USI

10.) ACTRT

JESx EXIT

(JES2 #$USER01 OR JES3 ##USER01)

ENTERED AT THE COMPLETION OF READER PROCESSING

MAY PERFORM

* LOGONID SUBSTITUTION -
  - RJE LINE DEFAULT
  - "SECURED" READER DEFAULT
  - LOGONID FROM INFORMATION IN JOB CARD NAME OR ACCOUNTING FIELD, ETC.
  - ALTER LOGONID SUPPLIED

* SOURCE SUBSTITUTION

* PROGRAM/AUTHORIZATION SUBSTITUTION

* THE EXIT IS A COPY STATEMENT TO OBTAIN INLINE CODE

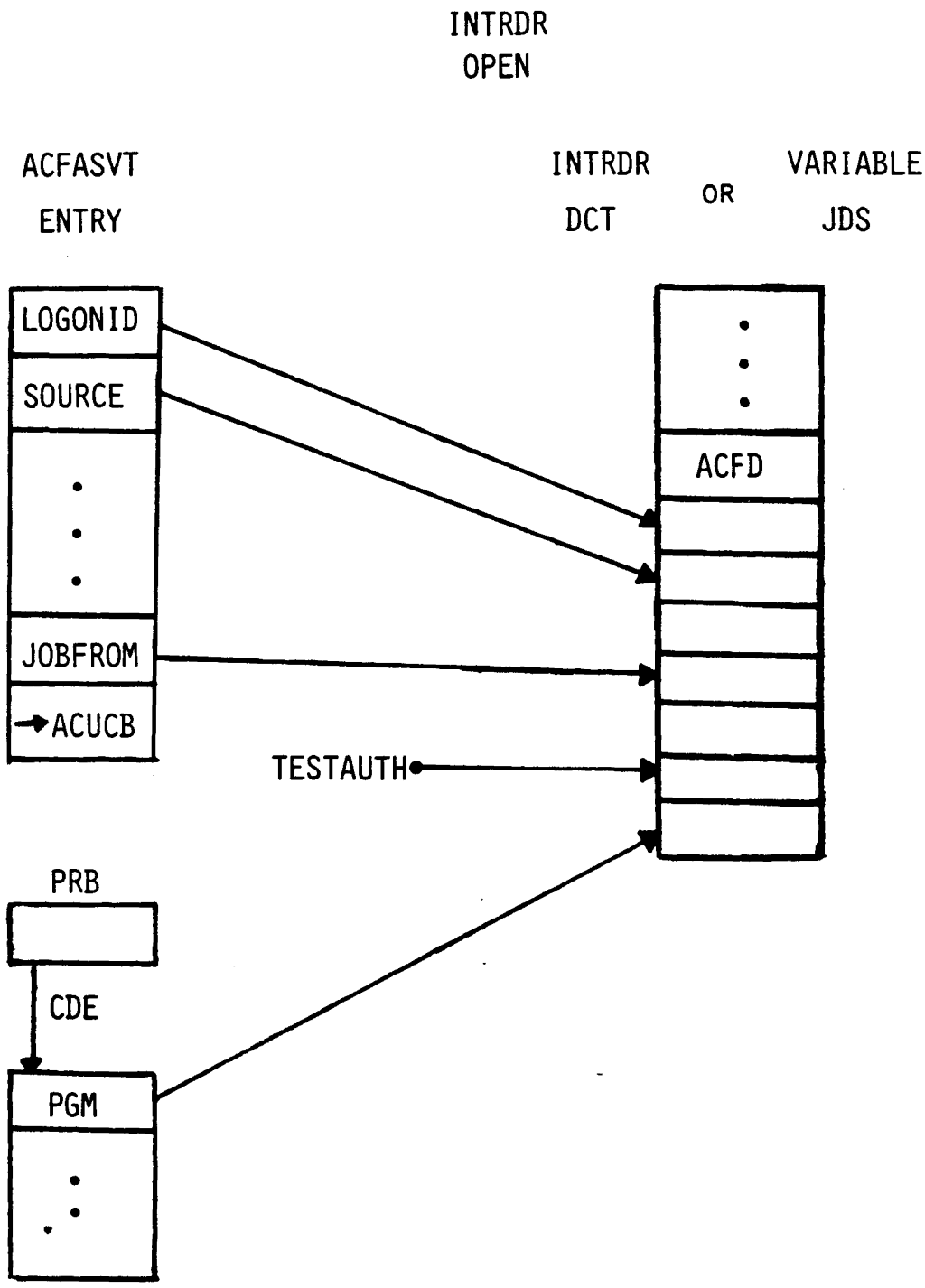
* THE EXIT CODE IS EXECUTED AFTER ALL PARAMETERS HAVE BEEN PLACED IN THE VALIDATION PARM LIST (ACVALD) AND A SWITCH WAS SET TO INDICATE IF VALIDATION IS TO OCCUR.

* ENTRIES IN THE PARAMETER LIST AND THE "NO VALIDATION" SWITCH CAN BE ALTERED

  JES2/NJE - #$USER01
  JES3 - ##USER01
  JES2/SP1.3- EXIT223
  JES - ACFBØUS1

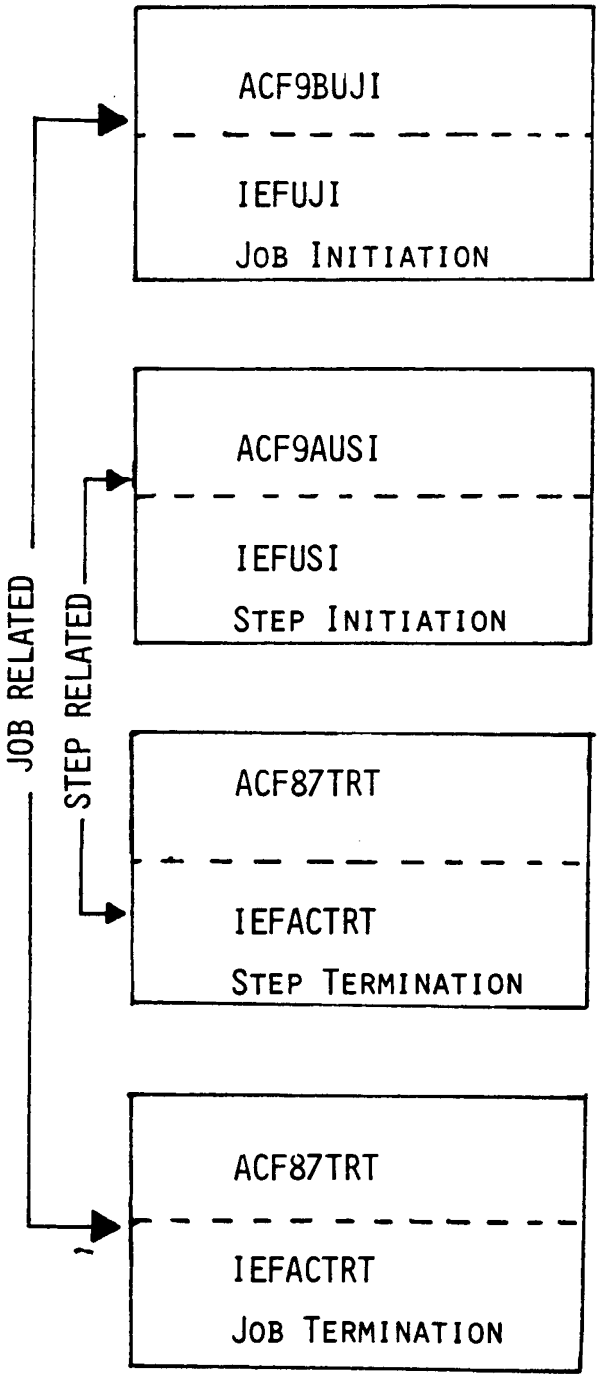
Revised: 9/22/82

JES2 & JES3
INTRDR INFORMATION TRANSFER



Revised: 7/20/83

SMF EXIT FLOW



BUILD THE ACUCB

GETMAIN 1200 BYTES FROM LSQA

MOVE IN ENVIRONMENT DATA

READ IN LOGONID

INITIALIZE SMF HEADER

IF FLUSHED BY ACF2 IEFUJI WILL NOT GET CONTROL

ENSURE ACF2 ACTIVE (WTOR)

OBTAIN WORK AREA

VALIDATE PROGRAM NAME

SVC S ISSUED

FREE WORK AREA

RESET CURRENT PROGRAM, LIBRARY, AND VOLUME

RETAIN JOBLIB INFO

REWRITE LOGONID IF VIOLATIONS OCCUR

REMOVE RULES CHAIN

FREE ACUCB TO LSQA

Revised: 07/30/83

SMF DRIVER

@EXITS MACRO (ACFFDR) PRIOR TO RELEASE 4.0

OPTIONS:

SMFJINT = ACF9BUJI,

SMFSINT = ACF9AUSI,

SMFTERN = ACF87TRT,

@SMF MACRO (ACFFDR)

OPTIONS:

JINIT = FIRST

SINIT = FIRST

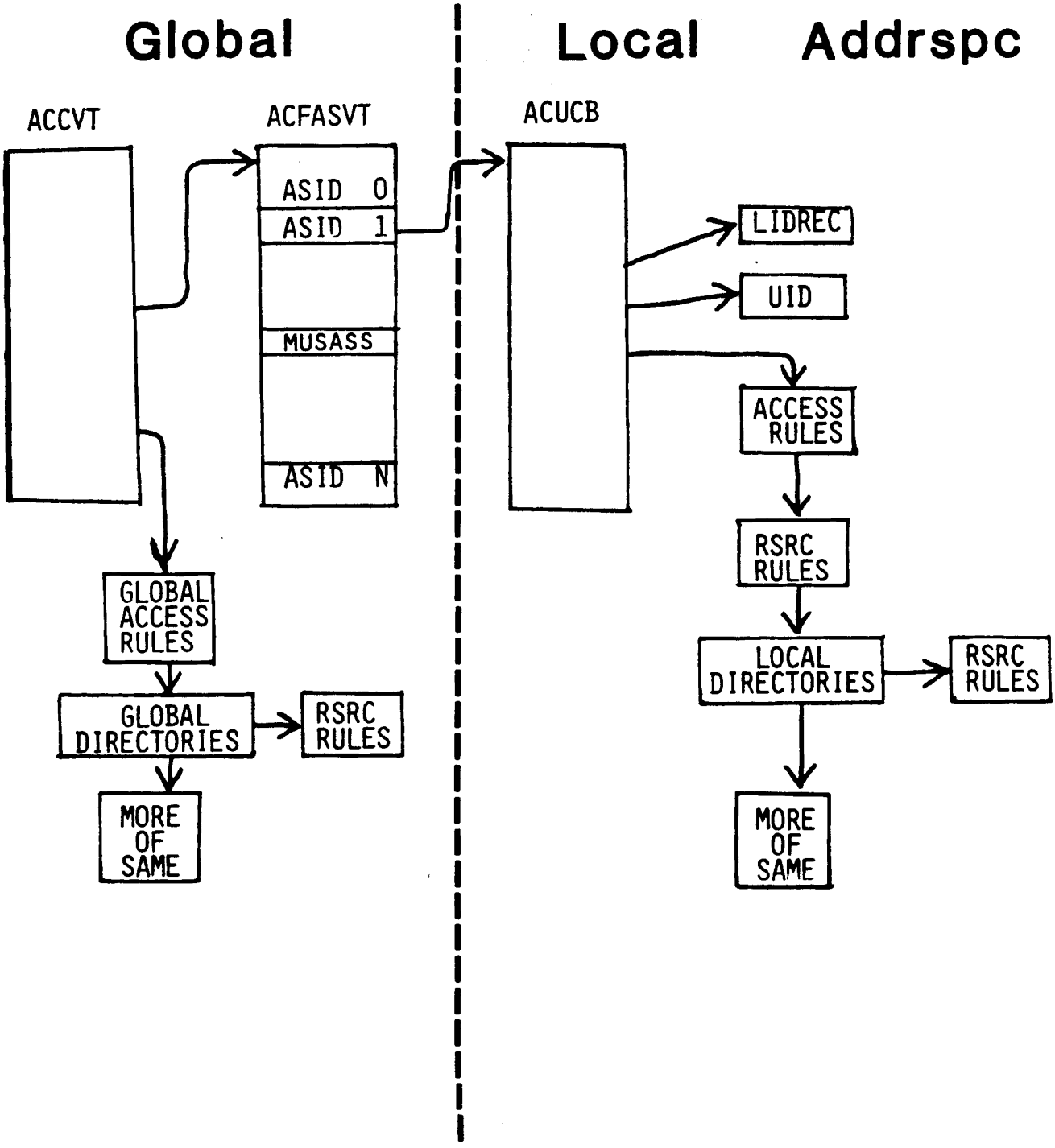
JTERM = LAST

UP TO 255 MODULES PER EACH OPTION

Revised: 10/18/84

ACF2 CONTROL BLOCK STRUCTURE

ADDRESS SPACE LEVEL



ACF2

SUPERVISOR

CALLS

3/8/83

SVC A

ALTER = IN @CSVC 222 DEFAULT

1.) LOGON VALIDATION

2.) RESOURCE RULE INTERPRETATION

3.) ACF2 DATABASE MAINTENANCE
(INSERT, LIST, CHANGE, OR DELETE RECORDS)

Revised: 1/23/84

SVC S

VALD = IN @CSVC 221 DEFAULT

1.) PROGRAM ACCESS VALIDATION

   A.) LOGPGM

   B.) PPGM

   C.) PROGRAM PATHING

   D.) MAINT

2.) DATASET ACCESS RULE INTERPRETATION

3.) DUMP SUPPRESSION

SVC C

IN SVC S

1.) COMMAND LIMITING

Revised: 10/18/84

SVCA VALIDATION

- VALIDATE LOGONID OF USER FOR:
  - MINIMUM REQUIREMENTS
    - VALID LOGONID NAME
    - VALID LOGONID PASSWORD
  - ADDITIONAL CHECKS
    - STC ID
    - CANCELLED
    - SUSPENDED
    - MAXIMUM PSWD VIOs
    - EXPIRATION OF LOGONID
    - SOURCE
    - TIME SHIFT
    - RESTRICTED ID
    - SUBMISSION RESTRICTED TO APF AUTHORIZED PROGRAMS
    - AUTHORIZED FOR THIS TYPE OF MUSASS ACCESS
- JOURNAL TO SMF
- ENQUEUE ON LOGONID FOR SIGNON (OPTIONAL)

TYPES OF SVC CALLS

USER CALL

CALL DONE ON BEHALF OF THE OWNER OF THIS ADDRESS SPACE (NO ACUCB SUBSTITUTION).

EXTERNAL CALL

CALL DONE ON BEHALF OF ANOTHER USER (ACUCB SUPPLIED FOR USER OTHER THAN OWNER OF THIS ADDRESS SPACE).

SUPERCALL

CALLER MUST BE APF AUTHORIZED OR MUSASS. APPLIES ONLY TO CERTAIN SVC A FUNCTIONS.
ALLOWS FUNCTION TO BE PERFORMED REGARDLESS OF ADDRESS SPACE AUTHORIZATION.

ACFSVC

INVOKE THE ACF2 SVC ROUTINES

```
LABEL   ACFSVC  PARMLIST, TYPE=[A/C/S], NONE=ADDRESS,
                CVT=[FIND/HAVE]
```

TYPE=A RETURN CODES:

- 0 = FUNCTION SUCCESSFUL
- 4 = SOME ERROR WITH REQUEST, MESSAGE RETURNED
- 8 = ERROR DURING PROCESSING, MESSAGE RETURNED
- 12 = ACF2 NOT ACTIVE, MESSAGE RETURNED

TYPE=C

- 0 = COMMAND IS VALID
- 4 = COMMAND IN CLIST, OR INVALID

TYPE=S

- 0 = REQUEST IS VALID
- 12 = REQUEST IS NOT VALID, MESSAGE RETURNED
- 16 = INVALID SVC INPUT PARAMETER, MESSAGE RETURNED

acf2

The Access Control Facility

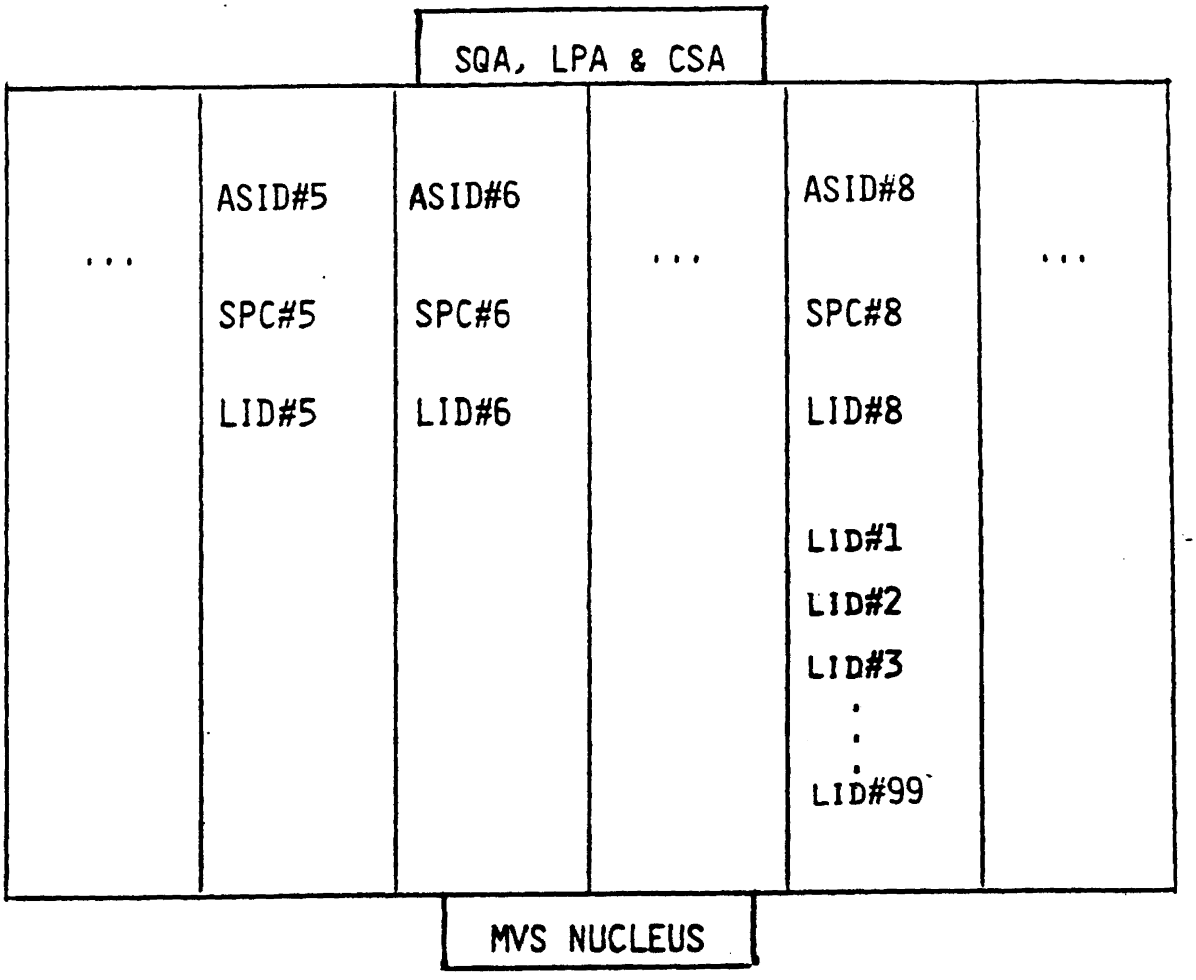
MUSASS

DEFINITION

AND

REQUIREMENTS

WHAT IS A MUSASS?



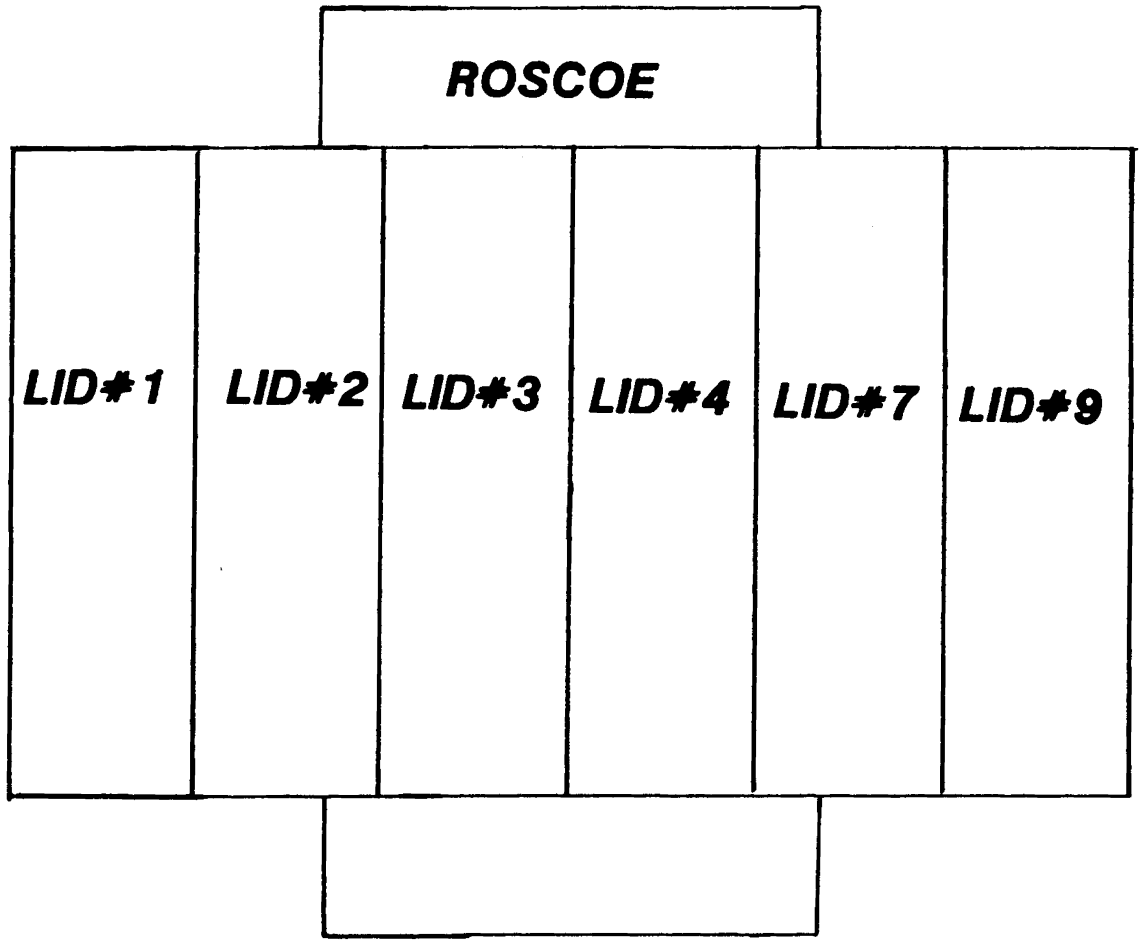
NORMAL ADDRESS SPACE

ACF2 ATTRIBUTES A REQUEST TO PROCESS A DATASET TO THE INDIVIDUAL USER WHO OWNS THE ADDRESS SPACE.

MULTI-USER SINGLE ADDRESS SPACE

THE PROGRAMMING SYSTEM (E.G. ROSCOE, WYLBUR, IMS & CICS) PROCESSES ALL REQUESTS TO ACCESS DATASETS ON BEHALF OF MANY USERS. ACF2 ATTRIBUTES REQUESTS TO PROCESS DATASETS TO THE OWNER OF THE ADDRESS SPACE, AS OPPOSED TO THE INDIVIDUAL USER.

ACF2 MUSASS INTERFACE



The programming system (ROSCOE) must incorporate ACF2 and assist ACF2 in validating individual requests

MUSASS

ACF2 CONTROLS PROVIDED

- MUSASS LOGONID VALIDATION
- MUSASS ACCESS VALIDATION

MUSASS CONTROLS NEEDED

ACF2 Logon Validation of Individual Users

ACF2 Rule Validation for Dataset/Resource Access by Individual Users

ACF2 MUSASS SUPPORT

1) Identify MUSASS to ACF2
   (@MUSASS)

2) Allow Logonid Compression
   (@MLID)

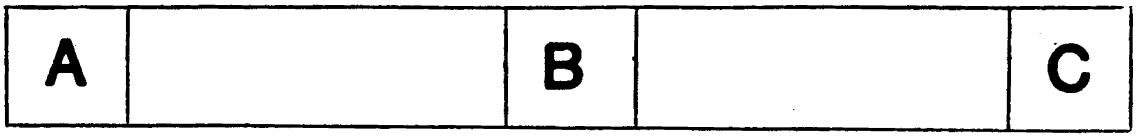
3) Allow all MUSASS Accesses
   (MAINT)

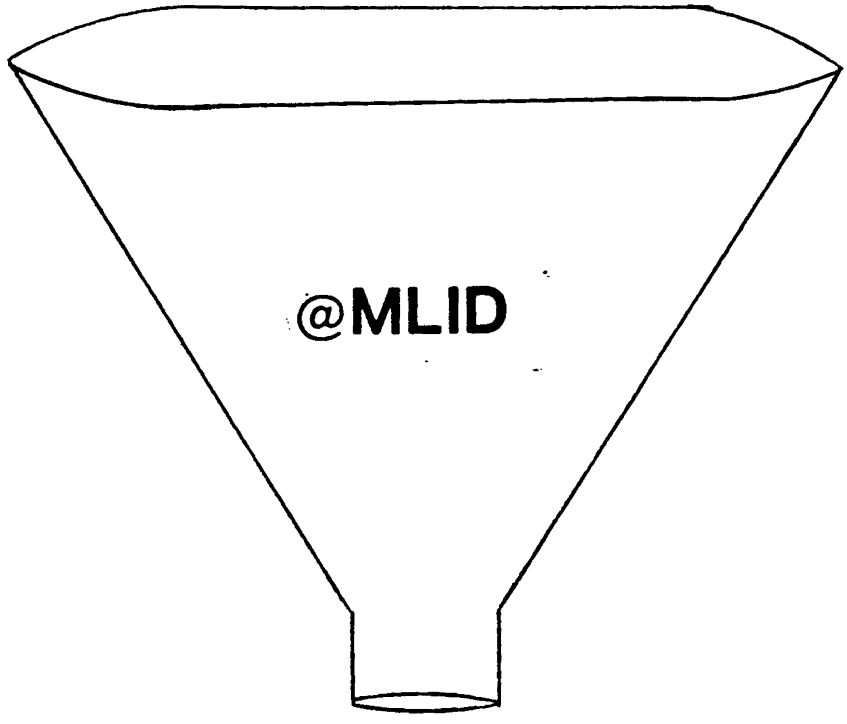
Revised: 10/10/84

@MUSASS

- Defines Special Processing to be Performed by ACF2 on behalf of a MUSASS
  - *CVTNAME*
  - *MLID*
  - *CACHE*

@MLID - MINI LOGONID





MAINT

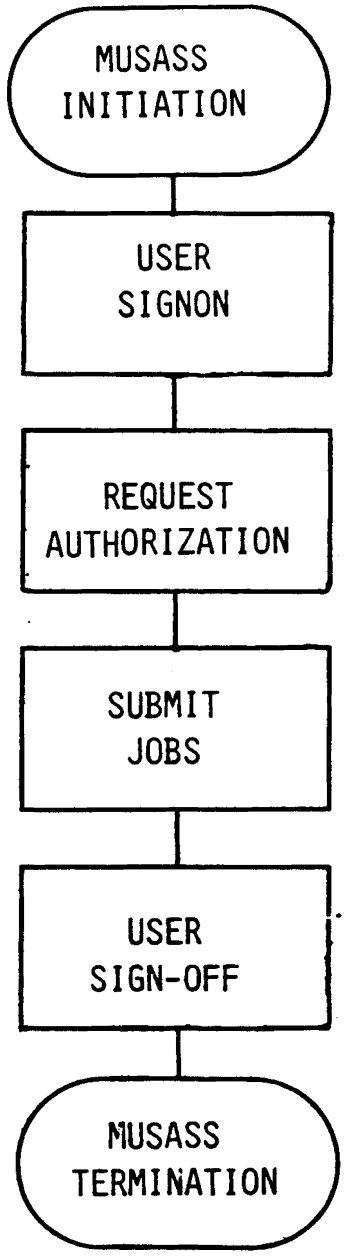
MAINT LID= PGM= LIB=

REQUIRES NON-CNCL OR MAINT ATTRIBUTE

WHAT MUSASS DOES SHOULD GENERALLY NOT BE JOURNALLED

Revised: 10/19/84

MUSASS FLOW



3/8/83

MUSASS INITIALIZATION

MUST BE ABLE TO:

1) ***Use an address space ACUCB.***

2) ***Supply one fullword ANCHOR per user in a MUSASS user level control block (IMS-CTB, ROSCOE-ATTR).***

HELPFUL IF MUSASS IS ABLE TO:

1) ***Build a directory for each class of resource to be processed by that MUSASS.***

Revised: 10/18/84

MUSASS REQUIREMENTS

- MUSASS MUST HAVE ACCESS TO SAME DATASETS AND/OR RESOURCES AS USER.

- POWERFUL LOGONID
  - SECURITY
  - ACCOUNT
  - NON-CNCL OR MAINT

- SPECIAL LOGONID FIELDS FOR MUSASS
  - NO-SMC
  - JOBFROM
  - MUSASS

- MUSASS LOGONID NEEDS CONTROLS
  - RESTRICT
  - SUBAUTH
  - PROGRAM(PGMNAME)

Revised: 10/18/84

MUSASS REQUIREMENTS
INTERFACE POINTS

- Session Initiation (SIGNON)
- Resource Access Request
  - *Generalized Resource*
  - *Dataset Access*
- Job Submission
- Session Termination (SIGN-OFF)

SESSION INITIATION

MUSASS EXIT FACILITY MUST:

- Issue Logonid Validation Calls (SVCA)
- Accept/Reject Signon

ADDITIONALLY MIGHT:

- Issue Warn Message
- Reprompt for Password
- ENQ Logonid
- Clear CRT Screen so Password is Entered in Secure Field
- Supply Default Logonid

ACF2 WILL:

- Build User Identification Control Block (ACMCB)

SESSION INITIATION

Validation Call Requested by MUSASS - NOT AUTOMATIC!

USER:  ***LOGONID***

SIGNON ***PASSWORD***

MUSASS:
SIGNON EXIT

CAPTURES USER SIGNON.
BUILDS ACVALD PARAMETER LIST.
REQUESTS ACMCB CREATE.
ISSUES ACF2 SVCA.

ACF2:

VALIDATES LOGONID, PSWD, AND INPUT SOURCE.
BUILDS ACMCB, IF SIGNON ALLOWED.
RETURNS ADDRESS OF ACMCB TO MUSASS SIGNON EXIT.

MUSASS:
SIGNON EXIT

SAVES ACMCB ADDRESS FOR FURTHER ACF2 VALIDATIONS IN MUSASS USER LEVEL CONTROL BLOCK.

USER VALIDATION

```
         ACVALD   DSECT=NO
           .
           .
           .
         MVI      ACVFCN,1                  INDICATE FUNC 1, VALIDATE
         MVI      ACVSFCN,ACVSMVAL          MUSASS LID VALIDATION
         OI       ACVCNTL,ACVCIPSD+ACVCPROC INVALID PSWD LOGIC
         MVC      ACVSLID,=CL8'MUSASS'      DEFAULT SLID ID
         MVC      ACVPATH,BLANKS            BLANK PATH
         MVC      ACVAPROG,BLANKS           NO AUTHORIZED PGM
         MVC      ACVSRCE+4(4),BLANKS       PRE-BLANK
         MVC      ACVSRCE(4),TERMADR        GET TERMINAL NAME
         XC       ACVRECB(16),ACVRECB       NO LIDREC, NO UID
         LH       R0,ACMBLEN                SET ACMCB LENGTH
         ST       R0,ACVUCB                 REQUEST ACMCB RETURN
         LA       R1,MSGBUF                 MSG BUFFER
         XC       MSGBUF(4),MSGBUF          - PRE-CLEAR MSG BUFFER -
ACFSVCA  ACFSVC   ACVALD,TYPE=A,CVT=HAVE     VALIDATE LID
         LTR      R15,R15                   RC=0?
         BZ       SVCAOK                    OK CONTINUE
           .
           .
           .
MSGBUF   DS       XL256
           .
           .
         END
```

ACVALD PARM LIST

ACVSFCN	+1 (1)	SUB FUNCTION CODES
	ACVSINFO =	GET LID
	ACVSRVLD =	REVALIDATE PASSWORD
	ACVSUSTC =	VALIDATE STC ID
	ACVSMUAL =	MUSASS VALIDATION REQUEST
	ACVSMINF =	MUSASS INFORMATION REQUEST
ACVCUTL	+2 (2)	CONTROL BITS
	ACVCNPSD =	NO PASSWORD USED
	ACVCIPSD =	IF BAD PASSWORD, BUMP BAD PSWD COUNT
	ACVCAPSD =	NEW PASSWORD SUPPLIED
	ACVCNACT =	DON'T INCREMENT SYSTEM ACCESS COUNT
	ACVCPROC =	LID IS AN STC PROCEDURE NAME
	ACVCAUTH =	SUBMITTING JOB/PGM IS APF AUTHORIZED
	ACVCMENQ =	MUSASS VALIDATION AND ENQ REQUEST
ACVLID	+12 (C)	LOGONID TO BE VALIDATED
ACVPSWD	+20 (14)	PASSWORD
ACVNPSWD	+28 (1C)	NEW PASSWORD
ACVSRCE	+36 (24)	SOURCE
ACVJOBV	+44 (2C)	JOB NAME BEING VALIDATED

Revised: 5/4/83

REQUEST AUTHORIZATIONS

MUSASS EXIT FACILITY MUST VALIDATE USER ACCESS TO:

- Dataset
  - *TAPE*
  - *DISK*
  - *MSS*
- Resource
  - *IMS Transactions*
  - *IMS Application Programs*
  - *CICS Files*
  - *CICS Transactions*
  - *ETC . . .*

REQUEST AUTHORIZATIONS
DATASET ACCESS

USER REQUEST:

- DATASET NAME
- TYPE OF ACCESS

MUSASS: AUTHORIZATION EXIT

- COLLECTS INFORMATION
  - ACMCB ADDRESS
  - DSN
  - TYPE OF ACCESS
  - VOLUME
  - UID
  - SOURCE
  - LIB
  - PGM
  - DDN
- BUILDS 'ACDSV' PARM LIST
- ISSUES ACF2 SVC TYPE = S
  - ON BEHALF OF MUSASS?
    - USER CALL
  - ON BEHALF OF USER OF THE MUSASS?
    - EXTERNAL CALL

DATASET ACCESS (CON'T)

ACF2: TAKES PARM LIST AND VALIDATES ACCESS BASED ON ACCESS RULES.

RETURNS YES/NO ANSWER TO MUSASS

UPDATES SMF IF VIOLATION/LOGGING.

MUSASS: ALLOWS/DENIES ACCESS BASED ON RC.

AUTHORIZATION EXIT IF DENIED, INFORMS USER.

ACDSV PARM LIST

ACFSPREQ	+0 (0)	SECURITY REQUEST DEFINITION
	X'00'	VALIDATE DSN/VOL/DDN
	X'01'	VALIDATE DSN ONLY
	X'02'	VALIDATE VOL ONLY
	X'03'	VALIDATE PROGRAM ONLY
	X'04'	VALIDATE DDN ONLY
	X'80'	TRACE ACCESS
	X'40'	CLEANUP
	X'10'	REQUEST SVC DUMP
ACFSPID1	+1 (1)	SECURITY REQUESTOR IDENTIFICATION
	0	OPEN
	1	EOV
	2	VSAMOPEN
	3	TAPE OPEN
	4	TAPE EOV
	5	CATALOG/AMS
	6	DASDM NEW DS ALLOCATION
	7	RENAME DSNAME
	8	SCRATCH/DELETE
	9	USER CALLABLE
	10	MUSASS CALLER
	11	PGM NAME REQUEST
	12	TAPE OPEN EXTENSION
	13	TAPE OPEN : VERIFY
	14	TAPE EOV : VERIFY
	15	OS CVOL

Revised: 5/4/83

ACDSV PARM LIST (CON'T)

ACFSPAC1	+2 (2)	ACCESS TYPE FLAGS
	X'00'	ACCESS IS INPUT ONLY
	X'01'	ACCESS IS READBACK
	X'03'	ACCESS IS IN/OUT
	X'04'	ACCESS IS UPDATE
	X'07'	ACCESS IS OUT/IN
	X'0F'	ACCESS IS OUTPUT
	X'70'	ACCESS IS EXEC ONLY
	X'7F'	ACCESS IS RENAME/SCRATCH/ALLOC
ACFSPAC2	+3 (3)	
	X'80'	BLP REQUEST

Revised: 5/4/83

REQUEST AUTHORIZATIONS
RESOURCE ACCESS

USER: REQUEST

- Resource Request
  E.G. CICS Transaction

MUSASS: AUTHORIZATION EXIT

- Collects Data
  - TYPE
  - KEY
  - UID
  - SHIFT
  - SOURCE
  - ACMCB Address
- Builds ACGRSRC Parm List
- Issues ACF2 SVC Type = A
  - On behalf of the MUSASS?
    Normal Resource Validation
  - On behalf of a User of the MUSASS?
    - Super Call
      OR
    - Normal Resource Validation

3/9/83

RESOURCE REQUEST (CON'T)

ACF2:

TAKES PARM LIST AND VALIDATES ACCESS BASED ON RESOURCE RULES.

RETURNS YES/NO/VERIFY ANSWER TO MUSASS.

UPDATES SMF IF VIOLATION/LOGGING OCCURRED.

MUSASS:

AUTHORIZATION EXIT

ALLOWS/DENIES/REVERIFIES ACCESS BASED ON RC.

IF RE-VERIFY IS NEEDED

- GET PASSWORD FROM USER
- BUILD ACVALD PARM LIST (ACVSRVLD)
- ISSUE SVCA
- ALLOW/DENY ACCESS BASED ON RC.

IF DENIED, INFORMS USER.

Revised: 07/30/83

ACGRSRC PARM LIST

ACGSFCN	+1	(1)	SUBFUNCTION CODE
	ACGSINP	3	VALIDATE RESOURCE ACCESS
	ACGSDDIR	4	DELETE RESOURCE DIRECTORY
	ACGSBLD	8	BUILD RESOURCE DIRECTORY
ACGFLGS	+2	(2)	
	ACGFADRQ	-	USE ADDRESS SPACE ACUCB TO OBTAIN AND ADD RESOURCE RULES
	ACGFGBL	-	DIRECTORY IS GLOBAL
	ACGFNRES	-	RULES OBTAINED THROUGH THIS DIRECTORY ARE TO BE MADE RESIDENT ON THE ADDRESS SPACE QUEUE AN THEY ARE REFERENCED.
ACGUCB	+3	(3)	FOUR BYTE ADDRESS OF ACMCB
ACGRTYPE	+11	(B)	FOUR BYTE CLASS AND TYPE FIELD
ACGRNAME	+15	(F)	FORTY BYTE RESOURCE NAME
ACGMODID	+80	(50)	EIGHT BYTE CHARACTER MODULE IDENTIFIER THAT WILL APPEAR IN ALL SMF RECORDS GENERATED.

Revised: 07/30/83

ACGRSRC

DIRECTORY BUILD PARAMETER LIST

```
         MVI     ACGFCN,4                SET FOR RESOURCE CALL
         MVI     ACGSFCN,ACGSBLD         AND DIRECTORY BUILD
         MVI     ACGFLGS,ACGFNRES        ADDRESS SPACE
                                         RESIDENT RULES WHEN THEY ARE NEEDED
         MVC     ACGRTYPE,=C'Rxxx'       RESOURCE TYPE
                                         Ex. ITR FOR IMS TRANSACTIONS
         MVC     ACGMODID,=C'PROGNAME'   SPECIAL IDENTIFIER
```

RESOURCE VALIDATION CALL

```
         MVI     ACGFON,4                SET RESOURCE FUNCTION
         MVI     ACGSFCN,ACGSINP         SET RESOURCE INTERPRETATION
         MVI     ACGFLGS,ACGFADRQ        SET RES RULE ON ADDRSPACE ACUCB
         MVI     ACGRFLGS,0              INIT
         MVC     ACGRTYPE,=C'Rxxx'       RESOURCE TYPE
         MVC     ACGRNAME,=CL40'TRANNAME'  REQUESTED RESOURCE NAME
         LA      0,MSGRTRN               RETURN 128 BYTE BUFF
         ST      0,ACGMSG                SET IN CASE OF ERROR
         MVC     ACGMODID,=C'PROGNAME'   SPECIAL IDENTIFIER
         ACFSVC  ACGRSRC,TYPE=A,CVT=FIND,NONE=NOACF  VALIDATE
         LTR     15,15                   CHECK THE RESULTS
         BNZ     BADTRAN                 NON-ZERO-DISALLOW ACCESS
         CLI     ACGRFLGS,4              WAS VERIFY REQUESTED
         BE      VERIFY                  YES-GO VERIFY PASSWORD
         B       OKTRAN                  NO-ALL IS DONE
BADTRAN  DS      0H
         MVI     ACGFLGS,ACGFABRT
         ACFSVC  ACGRSRC,TYPE=A,CVT=FIND,NONE=NOACF  ABORT
```


Revised: 07/30/83

REQUEST AUTHORIZATIONS

SPECIAL CONSIDERATIONS

- **SVC's**
  - *Both the External Call and Super Call Require*
    - *Caller be APF Authorized*

      OR
    - *Have MUSASS Attribute Turned on in Caller's LID.*

- **RESOURCE ACCESS**
  - *Directories Must be Built for Masking*

Revised: 07/30/83

GENERALIZED RESOURCE DIRECTORIES

•Building Directories

- BUILD 'ACGRSRC' PARM LIST USE 'ACGSBLD' SUBFUNCTION
- ISSUE ACF2 SVC TYPE=A

•Where Directories Go

- PAGEABLE CSA
- FIXED LSQA

•Type of Directories

- RESIDENT
- DEMAND
- TRANSIENT

Revised: 7/20/83

GENERALIZED RESOURCE DIRECTORIES

'PRO'S & CON'S'

•Directories in LSQA

PROS -

- FASTEST ACCESS TO RESOURCE RULE
- NO EFFECT ON PAGING RATES
- NO EFFECT ON CSA

CONS -

- LOSS OF USABLE LSQA
- FILLS UP USER'S ADDRESS SPACE
- CAN'T BE PAGED IN/OUT
- ONLY AVAILABLE TO SINGLE ADDR SPACE

•Directories in CSA (RESDIR)

PROS -

- NO EFFECT ON USER'S ADDRESS SPACE
- DIRECTORIES CAN BE PAGED IN/OUT
- DIRECTORIES CAN BE AVAILABLE TO OTHER ADDR SPC'S

CONS -

- (POSSIBLE) PAGING RATE INCREASE
- (POSSIBLE) SLOWER ACCESS TO RESOURCE RULE
- LOSS OF USABLE CSA

Revised: 10/10/84

GENERALIZED RESOURCE DIRECTORIES

'PRO'S & CON'S'

•Resident

PROS -

- ALWAYS AVAILABLE
- FASTEST ACCESS TO RESOURCE RULES

CONS -

- USES UP CSA

•Demand

PROS -

- NO USE OF LSQA UNTIL RESOURCE IS USED
- ALWAYS AVAILABLE AFTER FIRST USE
- FAST ACCESS AFTER FIRST USE

CONS -

- USES LSQA AFTER FIRST USE
- SLOWER ACCESS TO RESOURCE RULES ON FIRST REQUEST

•Transient

PROS -

- NO PERMANENT USE OF LSQA

CONS -

- SLOWER ACCESS TO RESOURCE

Revised: 1/23/84

JOB SUBMISSION

//*JOBFROM

- Associates Jobs, Submitted from a User of a MUSASS, with the User not the MUSASS itself.

- The Submitting Address Space Must
  - Have JOBFROM turned on in its LID.

    OR
  - Issue an 'ACFSET JOBFROM=YES' macro

- //*LOGONID and //*PASSWORD Cards may Appear in the Jobstream

- Used with Internal Reader

- First //*JOBFROM Card is acted on.

Revised: 07/30/83

JOB SUBMISSION
MVS

- Open the Internal Reader
- Pass the Jobcard(s) through
- Insert JOBFROM Card
- Pass the rest of the Jobstream
- Close the Internal Reader

JOB SUBMISSION
VS1

- Open Internal Reader
- Request Authcode
  - *ACJFVALD Function of SVC TYPE=A*
- Pass the Jobcard(s) through
- Insert JOBFROM Card
- Pass the rest of the Jobstream
- Close the Internal Reader

3/9/83

USER SIGN-OFF

- CLEAN UP USER'S
  - *Control Blocks*
  - *Rule Buffers*
- UPDATE USER'S LOGONID RECORD
  - *Violation Count*
  - *Cancel/Suspend*

3/9/83

USER SIGN-OFF
CLEAN-UP

•FREE UP ACMCB AND RULE STORAGE

MUSASS:
EXIT

- BUILD 'ACTRM' PARMLIST
  - USE 'ACTSMINI' SUBFUNCTION
- ISSUE ACF2 SVC TYPE=A

ACF2:

- FREES STORAGE
  - ACMCB
  - RULE CHAIN
- UPDATES LOGONID
  - VIOLATION COUNT
  - CANCEL/SUSPEND

3/9/83

ACTRM PARM LIST

ACTSFCN	+1	(1)	SUBFUNCTION
		0	DEQUEUE RULE CHAIN
		1	FREE RULES AND ACMCB
		2	TERMINATE LID
ACTCNTL	+2	(2)	
		X'80'	SUSPEND LID
		X'01'	FREE RULES AND ACMCB

Revised: 5/4/83

MUSASS TERMINATION

- Normal ACF2 clean-up of Address Space when MUSASS is terminated

acf2

The Access Control Facility

ADDITIONAL

CONSIDERATIONS

3/8/83

USER WRITTEN MODIFICATIONS 'USERMODS'

- 50 MACHINE-READABLE MODS
  - *Firecall - ID*
  - *Password Change Control*
  - *SAS Reports*
  - *ETC . . .*

- 5 WRITTEN-MATERIAL MODS
  - *User Written Request Forms*

- INCLUDED ON INSTALLATION TAPE

Revised: 1/23/84

OTHER PRODUCTS MANUAL

•INFORMATION ON OVER 70 OTHER SOFTWARE PRODUCTS

- ***Marketing Information***
- ***Product Description***
- ***Interface Support***
- ***Installation with ACF2***
- ***Notes on ACF2 Installation***

Revised: 1/23/94

APPENDIX B - USER MODIFIABLE SOURCE AND MACROS

The macros, COPY code and assembler modules are all contained in SYS1.ACFMAC.

#$H... - HJSTP support modules.

#$USER01 - JES2 or NJE inline exit in HASPRDR at job input termination after the ACF2 job validation parameter list is built.

#$UW110A - ACF2 dataset validation support for Triangle University's JES2 user PROCLIB modification.

##USER01 - JES3 inline exit in IATUX29 at job input service termination after the ACF2 job validation parameter list is built.

ABRVALD - A sample validation exit for Innovation Data Processing's ABR.

ACF$CMDS - An example of an ACF2/TSO command limiting list

ACF$CPK - Front end routine to validate requests to Innovation Data Processing's COMPAKTOR.

ACF$CRT - User definable module used for ASCII device screen clear control characters.

ACF$DSF - Front end routine to validate control parameters for Innovation Data Processing's FDRDSF dataset requests.

ACF$FDR - Front end routine to validate control parameters for Innovation Data Processing's FDR requests.

ACF$IIMS - IMS sample parameter generation module.

ACF$IMS# - IMS message ID base specification macro.

ACF$KEYS - User definable keywords which ACF2 logon will pass on to an IKJEFLD TSO logon exit.

ACF$PAN1 - PANEXEC exit support module.

ACF$RACT - ROSCOE Release 5.1 Sign-on exit code to support ACF2.

ACF$RAIT - ACF2 initialization exit for ROSCOE Release 5.2.

ACF$RCFB - DSECT for ACFB control block for ROSCOE Release 5.2.

ACF$RCFU - DSECT for user portion of ACFB for ROSCOE Release 5.2.

ACF$RCPY - ROSCOE Release 5.1 Copy utility exit code.

Revised: 1/23/84

SKK NOTES

NOTE #1:

— VALIDATION OF ACCOUNT NUMBERS AND JOB CLASSES FOR BATCH JOBS

NOTE #2:

— MAKING STC's APPEAR TO BE APF AUTHORIZED TO ACF2

NOTE #3:

— USING THE DATASET PRE-VALIDATION EXIT TO RESTRICT NEW ALLOCATIONS

NOTE #4:

— ALLOWS IMS/CICS TRANSACTION GROUPING

NOTE #5:

— SAMPLE WTO EXIT TO MODIFY ROUTE CODES OF ACF2 MESSAGES

NOTE #6:

— PROGRAM VALIDATION FOR BATCH JOBS AND STARTED TASKS

NOTE #7:

— AUTOMATIC DATA ERASE

NOTE #8:

— VALIDATING PSBS FOR IMS BATCH MESSAGE PROCESSING REGIONS

Revised: 10/10/84

SKK NOTE #1
VALDTAC1

- Uses Generalized Resource Rules
  - Type 'TAC'
  - Type 'CLS'

- Code is Inserted into IEFUJI

SAMPLE RULES

- $KEY(1234) TYPE(TAC)
  UID(ABC) ALLOW

  Allows all UID's that Start with 'ABC' to use '1234' as an Account Number

- $KEY(A) TYPE(CLS)
  UID(SPG) LOG

  Will Allow And Log any UID Starting with 'SPG' to use JOB Class 'A'

SKK NOTE #2

- 4 LINES OF CODE TO ADD TO THE USER01 EXIT.
- ALL STC'S BECOME APF AUTHORIZED TO ACF2.
- CAN BE USED TO MAKE JOB SCHEDULING PACKAGES APF AUTHORIZED TO ACF2 SO SUBAUTH CONTROLS CAN BE USED.

3/9/83

SKK NOTE #3
VALDDSD1

- USES GENERALIZED RESOURCE RULES
  - TYPE 'DSD'
- USES DATASET PRE-VALIDATION EXIT
- RESTRICTS A USER FROM ALLOCATING ON A VOLUME OR GROUP OF VOLUMES

SAMPLE RULE

- $KEY(TSO***) TYPE(DSD)
  UID(TSO) ALLOW

  WILL ALLOW ANY UID STARTING WITH 'TSO' TO ALLOCATE SPACE ON ANY VOLUME STARTING WITH 'TSO'

3/9/83

SKK NOTE #4
RSRTGRP

- USES INFORMATION STORAGE ENTRY LISTS AND GENERALIZED RESOURCE RULES

- USES RESOURCE PRE-VALIDATION EXIT

- ONCE ESTABLISHED, A RESOURCE DEFINED TO THE GROUP WILL ALWAYS USE GROUP RULES.

SAMPLE USE

- ACF
  SET ENTRY(SGP)
  INSERT IGRP1 NEWDATA(TRANID01)
  CHANGE IGRP1 NEWDATA(TRANID02)
  CHANGE IGRP1 NEWDATA(TRANID03)
  INSERT IGRP2 NEWDATA(TRANID04)
  CHANGE IGRP2 NEWDATA(TRANID05)

  $KEY(IGRP1) TYPE(ITR)
  UID(*AARIIC) ALLOW
  UID(CDSDDBA) ALLOW

  $KEY(IGRP2) TYPE(ITR)
  UID(*AAPIIC) ALLOW

Revised: 07/30/83

SKK NOTE #5
WTOEXIT

- USES WTO EXIT
- CHANGES ROUTE CODES FOR SELECTED ACF2 MESSAGES
- PROVIDES A TABLE TO SELECT WHAT MESSAGES ARE TO BE CHANGED.

3/9/83

SKK NOTE #6
VALDPGM1

- USES GENERALIZED RESOURCE RULES
  - TYPE 'PGM'
- USES DATASETS PRE-VALIDATION EXIT
- VALIDATES BASED ON 'EXEC PGM=PROGRAM'
- IF NO RULE IS FOUND ACCESS IS ALLOWED

SAMPLE RULE

```
$KEY(IMASPZAP) TYPE(PGM)
 UID(TECH)  ALLOW
```

ALLOWS ONLY UID'S STARTING WITH 'TECH' TO USE PROGRAM 'IMASPZAP'

3/9/83

SKK NOTE #7

- AUTOMATIC DATA ERASE
  - REQUIRES
    MVS/SP 1.3 OR HIGHER
    DF/DS IBM PROGRAM PRODUCT

- VSAM AUTOMATIC ERASE
  - TURNS ON 'ERASE' ATTRIBUTE
  - CODE GOES INTO IGGØ26DU

- NON VSAM AUTOMATIC ERASE
  - INVOKES ACF53DEL (ACFDEL)
  - CODE GOES INTO IGGPREØØ

USE OF NOTE #7 WILL PROVIDE A C2 DEPARTMENT OF DEFENSE CLASSIFICATION FOR ACF2.

Revised: 10/19/84

SKK NOTE #8

- USES GENERALIZED RESOURCE RULES
  - TYPE 'PSB'

- CODE GOES INTO IEFUSI

- VALIDATES PSB SPECIFIED IN PARM FIELD

SAMPLE RULE

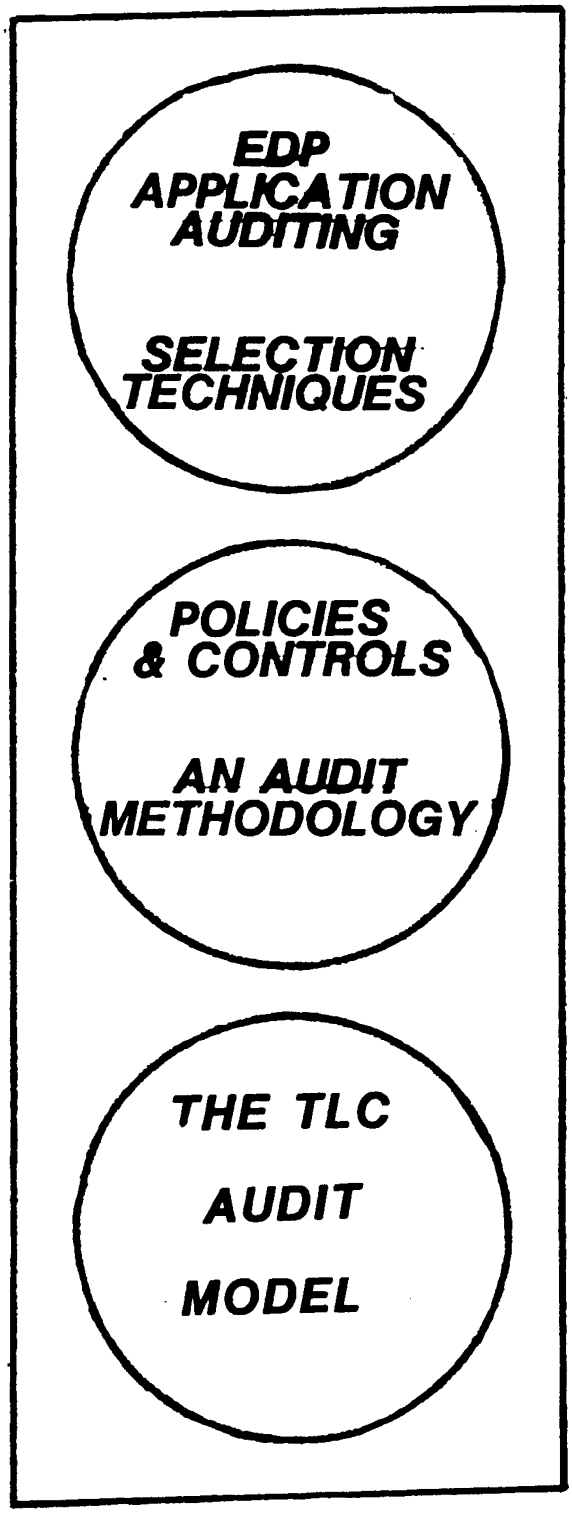
```
$KEY(TESTIMS)    TYPE(PSB)
   UID(CDIMS) ALLOW
```

acf2

The Access Control Facility

SESSION 10

AUDITING WORKSHOP



Revised: March 9, 1983

acf2

The Access Control Facility

POLICIES

AND

CONTROLS

03/08/83

POLICIES ARE HIGH LEVEL GUIDELINES

CONTROLS ARE FUNCTIONS USED TO ENFORCE POLICIES

5/3/83

SECURITY POLICY CHOICES

- Least Privilege VS. Maximized Sharing
- Open VS. Closed System
- Who Owns Or Is Responsible For Data
- Who Administers Controls
- What Level Of Separation Of Function

Revised: March 9, 1983

CONTROLS

PREVENTIVE

DETECTIVE

CORRECTIVE

Revised: March 9, 1983

OUR MISSION

Identify controls whose absence would allow significant variance from Security Policy

Search for existing exposures which could be eliminated by the addition of further controls

Revised: March 9, 1983

OUR AUDIT METHODOLOGY

GATHER INFORMATION

SELECT TOOLS

REVIEW CRITICAL CONTROLS

RUN AUDIT PROGRAMS

DO COMPLIANCE TESTING

EVALUATE RESULTS

REPORT TO MGMT

Revised: March 9, 1983

acf2

The Access Control Facility

AUDIT

OF

TRUE LOCK COMPANY

03/08/83

GATHER

BASIC

INFORMATION

Revised: 5/2/83

SECURITY STATEMENT

THE MANAGEMENT OF TLC WILL ENSURE THE INTEGRITY AND ACCURACY OF DATA REQUIRED TO PLAN AND CONTROL THE ACTIVITIES OF THIS ORGANIZATION. IN ADDITION, WE WILL PROVIDE FOR THE PRIVACY OF PROPRIETARY, PERSONAL AND OTHERWISE SENSITIVE DATA. HEREAFTER THIS DATA WILL BE REFERRED TO AS PRODUCTION DATA AND ALL OTHER DATA AS TEST DATA.

ACCESS PERMISSION TO ANY PORTION OF PRODUCTION DATA WILL BE GRANTED BY THE SECURITY OFFICER, STRICTLY ON A NEED TO KNOW BASIS. SYSTEM USERS WILL BE PERMITTED TO CREATE TEST DATA, AND IT WILL BE THEIR RESPONSIBILITY TO DEFINE SHARING CONDITIONS FOR THIS TEST DATA.

REASONABLE CONTROLS SUCH AS AUDIT TRAILS AND SEPARATION OF FUNCTION WILL BE EMPLOYED WHEREVER POSSIBLE, AND WITH THE EXCEPTION OF TEST DATA, ADMINISTRATION WILL BE CENTRALIZED. BY VIRTUE OF THESE STANDARDS, THE MANAGEMENT WILL PROTECT EMPLOYEES FROM UNNECESSARY TEMPTATION OR SUSPICION IN THE EVENT OF SECURITY VIOLATIONS.

FINALLY, IT IS ALSO OUR INTENTION TO PROTECT CORPORATE ASSETS FROM MISUSE, AND TO PROTECT MANAGEMENT FROM CHARGES OF IMPRUDENCE IN THE EVENT OF ANY COMPROMISE OF SECURITY.

Revised: 7/30/83

PAYROLL FILES

PAYROLL.BENEFITS.WEEKLY	File containing employee benefit and dependent information for hourly workers.
PAYROLL.BENEFITS.BIWEEKLY	File containing employee benefits and dependent information for salaried employees.
PAYROLL.DEPT.TOTALS	File containing department totals used in balancing payroll and year to date figures.
PAYROLL.HOURS.WEEKLY	File for hourly workers containing time employee is to be paid for.
PAYROLL.CONTROL.DATA	Control information such as current pay period dates to be used for payroll runs.
PAYROLL.MASTER.ACTIVE	Payroll master file for all employees including year to date earnings.
PAYROLL.MASTER.BACKUP	Backup of the Active Payroll master file.
PAYROLL.PROD.LOADLIB	Production load library for payroll programs.

Revised: July 29, 1983

TLC LOGONIDS

```
acf
? set lid
? list like(-)
 ACFUSER              SHD99ACFUSER 0000 SKK INC. # 312-635-3
 CANCEL/SUSPEND       CSDATE(07/31/81) CSWHO(NPDLLV) SUSPEND
 PRIVILEGES           ACCOUNT AUDIT JOB LEADER SECURITY TSO
 ACCESS               ACC-CNT(36) ACC-DATE(05/22/81) ACC-TIME(11:42)
 MISCELLANEOUS        COMPANY(S) LEVEL(D) PREFIX(ACFUSER)
                      PROJECT(99) SITE(H)
 TSO                  ACCTPRIV ALLCMDS CHAR(BS) INTERCOM JCL LGN-PROC
                      LGN-SIZE LINE(ATTN) MAIL MOUNT MSGID NOTICES
                      OPERATOR PROMPT TSOPROC(IKJACCNT) WTP
 STATISTICS           PSWD-DAT(07/22/81) PSWD-TOD(06/19/81-08:18)
                      PSWD-VIO(1) SEC-VIO(0) UPD-TOD(02/03/83-17:44)

 TLC001               TCFOSTLC001 VIOLET EXT. 121
 PRIVILEGES           CICS JOB TSO
 ACCESS               ACC-CNT(5) ACC-DATE(01/14/83) ACC-TIME(10:07)
 MISCELLANEOUS        COMPANY(T) LEVEL(F) MAXDAYS(60)
                      PREFIX(TLC001) PROJECT(OS) SITE(C)
 TSO                  CHAR(BS) DFT-PFX(TLC001) DFT-SOUT(A) DFT-SUBM(A)
                      INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                      NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                      TSOSIZE(8,172) WTP
 STATISTICS           PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-12:53)
                      PSWD-VIO(0) SEC-VIO(8) UPD-TOD(02/11/83-13:51)

 TLC002               TCFPATLC002 STEVE EXT. 122
 PRIVILEGES           CICS JOB TSO
 ACCESS               ACC-CNT(3) ACC-DATE(01/14/83) ACC-TIME(08:11)
 MISCELLANEOUS        COMPANY(T) LEVEL(F) MAXDAYS(60)
                      PREFIX(TLC002) PROJECT(PA) SITE(C)
 TSO                  CHAR(BS) DFT-PFX(TLC002) DFT-SOUT(A) DFT-SUBM(A)
                      INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                      NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                      TSOSIZE(8,172) WTP
 STATISTICS           PSWD-DAT(01/14/83) PSWD-TOD(01/12/83-12:54)
                      PSWD-VIO(1) SEC-VIO(5) UPD-TOD(02/11/83-13:51)

 TLC003               TCFISTLC003 PEARL EXT. 123
 PRIVILEGES           ACCOUNT CICS JOB SECURITY TSO
 ACCESS               ACC-CNT(5) ACC-DATE(01/17/83) ACC-TIME(09:47)
 MISCELLANEOUS        COMPANY(T) LEVEL(F) MAXDAYS(60)
                      PREFIX(TLC003) PROJECT(IS) SITE(C)
 TSO                  CHAR(BS) DFT-PFX(TLC003) DFT-SOUT(A) DFT-SUBM(A)
                      INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                      NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                      TSOSIZE(8,172) WTP
 STATISTICS           PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-09:05)
                      PSWD-VIO(0) SEC-VIO(0) UPD-TOD(02/11/83-13:51)
```

Revised: October 9, 1984

TLC LOGONIDS

TLC004	TCFQATLC004 OSCAR EXT. 124
PRIVILEGES	CICS JOB TSO
ACCESS	ACC-CNT(4) ACC-DATE(01/13/83) ACC-TIME(11:26)
MISCELLANEOUS	COMPANY(T) LEVEL(F) MAXDAYS(60) PREFIX(TLC004) PROJECT(QA) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC004) DFT-SOUT(A) DFT-SUBM(A) INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-11:35) PSWD-VIO(0) SEC-VIO(4) UPD-TOD(02/11/83-13:51)
TLC005	TCFSPTLC005 MARY EXT. 125
PRIVILEGES	CICS JOB NON-CNCL TSO
ACCESS	ACC-CNT(2) ACC-DATE(01/14/83) ACC-TIME(08:42)
MISCELLANEOUS	COMPANY(T) LEVEL(F) MAXDAYS(60) PREFIX(TLC005) PROJECT(SP) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A) INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-12:59) PSWD-VIO(0) SEC-VIO(0) UPD-TOD(02/11/83-13:51)
TLC006	TCHBATLC006 KATHY EXT. 221
PRIVILEGES	ACCOUNT CICS JOB TSO
ACCESS	ACC-CNT(2) ACC-DATE(01/12/83) ACC-TIME(12:59)
MISCELLANEOUS	COMPANY(T) LEVEL(H) MAXDAYS(60) PREFIX(TLC006) PROJECT(BA) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC006) DFT-SOUT(A) DFT-SUBM(A) INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-09:08) PSWD-VIO(0) SEC-VIO(2) UPD-TOD(02/11/83-13:51)
TLC007	TCHACTLC007 JOHN EXT. 222
PRIVILEGES	CICS JOB TSO
ACCESS	ACC-CNT(2) ACC-DATE(02/04/83) ACC-TIME(08:30)
MISCELLANEOUS	COMPANY(T) LEVEL(H) MAXDAYS(60) PREFIX(TLC007) PROJECT(AC) SITE(C)
TSO	CHAR(BS) DFT-PFX(TLC007) DFT-SOUT(A) DFT-SUBM(A) INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024) TSOSIZE(8,172) WTP
STATISTICS	PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-13:00) PSWD-VIO(0) SEC-VIO(2) UPD-TOD(02/11/83-13:51)

Revised: October 9, 1984

TLC LOGONIDS

```
  TLC008                TCHPJTLC008 PAYROLL JCL EXT. 223
 PRIVILEGES            CICS JOB PROGRAM(JOBCOPY) RESTRICT SUBAUTH TSO
 ACCESS                ACC-CNT(20) ACC-DATE(01/17/83) ACC-TIME(09:51)
 MISCELLANEOUS         COMPANY(T) LEVEL(H) MAXDAYS(60) PREFIX()
                       PROJECT(PJ) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC008) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
                       PSWD-VIO(0) SEC-VIO(2) UPD-TOD(02/11/83-13:51)

  TLC009                TCASATLC009 STAFF AUDITOR EXT. 321
 PRIVILEGES            AUDIT CICS JOB READALL SCPLIST(AUDITOR) TSO
 ACCESS                ACC-CNT(13) ACC-DATE(02/11/83) ACC-TIME(13:52)
 MISCELLANEOUS         COMPANY(T) LEVEL(A) MAXDAYS(60)
                       PREFIX(TLC009) PROJECT(SA) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC009) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(01/12/83-13:01)
                       PSWD-VIO(0) SEC-VIO(8) UPD-TOD(02/11/83-13:52)
?
```

```
  set scope(scp)
? list auditor
ACF60062 SCOPE AUDITOR STORED BY TLC003 ON 01/12/83-09:45
 DSN(PAYROLL) LID(ACFUSER,TLC-) UID(-) INF(-)
? end
READY
```

Revised: October 9, 1984

RULES USED WITH SKK NOTE #3

DATASET PRE-VALIDATION EXIT TO RESTRICT NEW ALLOCATIONS

```
READY
acf
? set resource(dsd)
?


  decomp work01
ACF60060 RESOURCE WORK01 STORED BY NPDLLV ON 01/11/83-08:35
$KEY(WORK01) TYPE(DSD)
 UID(SH) ALLOW
 UID(TC) UNTIL(04/11/83) LOG
?



  decomp work02
ACF60060 RESOURCE WORK02 STORED BY NPDLLV ON 01/11/83-08:37
$KEY(WORK02) TYPE(DSD)
 UID(SH) ALLOW
 UID(TC) UNTIL(04/11/83) LOG
?



  decomp work03
ACF60060 RESOURCE WORK03 STORED BY NPDLLV ON 01/11/83-08:38
$KEY(WORK03) TYPE(DSD)
 UID(SH) ALLOW
 UID(TC) UNTIL(04/11/83) LOG
?



  decomp spoola
ACF60060 RESOURCE SPOOLA STORED BY NPDLLV ON 04/07/83-10:09
$KEY(SPOOLA) TYPE(DSD)
 UID(SH) ALLOW
?



  end
READY
```


Revised: 5/3/83

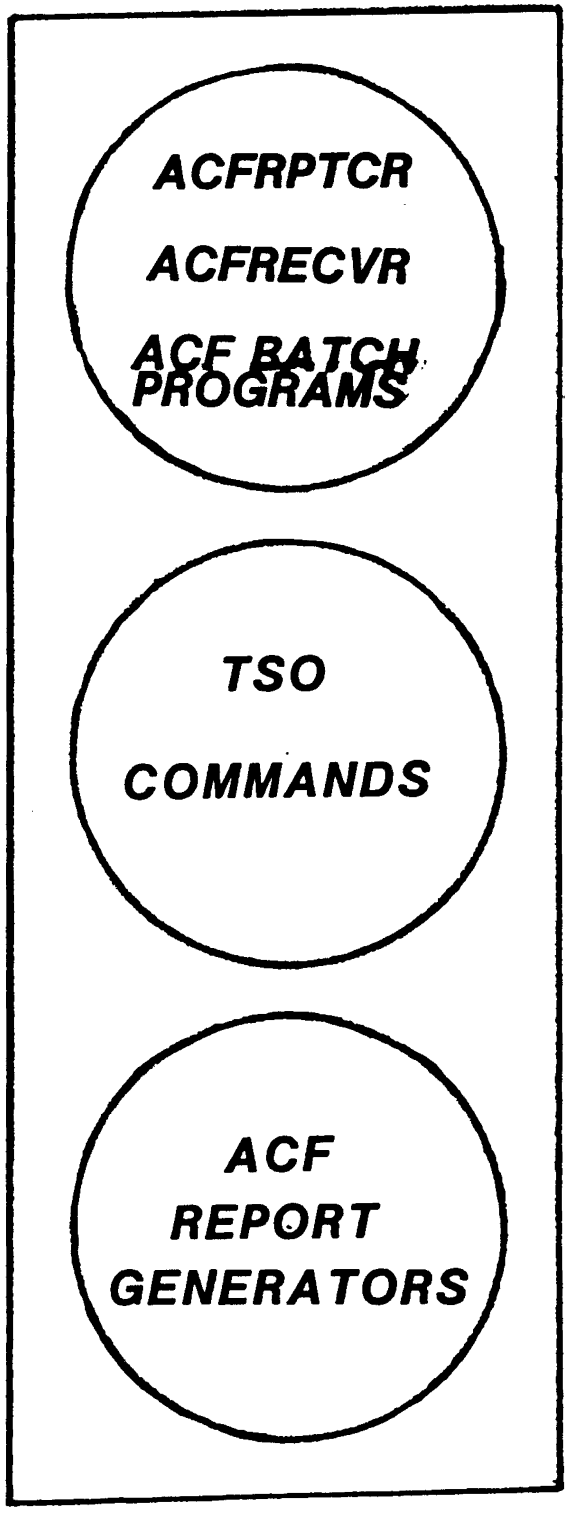
SELECT

AUDIT

TOOLS

Revised: 5/3/83

SELECT AUDIT TOOLS



Revised: March 9, 1983

SYS1.ACFJOBS(REPORTS)

```
//REPORTS JOB 1,'ACF2 REPORTS',MSGCLASS=A,TYPRUN=HOLD                    00010004
//*********************************************************************** 00020005
//*                                                                      00030005
//*  THIS JOB MAY BE USED TO PRODUCE A COPY OF EACH OF                   00040005
//*  THE ACF2 REPORTS                                                    00050005
//*                                                                      00060000
//*********************************************************************** 00070005
//*                                                                      00080005
//******************************                                        00090005
//* SORT CONTROL PROC                                                   00100000
//******************************                                        00110005
//ACFSORT PROC INDS=,         INPUT DATASET TO BE SORTED                 00120005
//         OUTDS=,            OUTPUT DATASET IN SORTED ORDER             00130005
//         SYSDA=SYSDA        SCRATCH UNIT - USE VIO UNIT                00140005
//SORT    EXEC PGM=SORT,REGION=384K,PARM='SIZE(320000)'                  00150005
//SYSOUT   DD SYSOUT=*                                                   00160005
//SORTIN   DD DSN=&INDS,DISP=(OLD,DELETE)                                00170005
//SORTOUT  DD DSN=&OUTDS,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=&SYSDA      00180005
//SORTWK01 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                              00190000
//SORTWK02 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                              00200000
//SORTWK03 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                              00210000
//SORTWK04 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                              00220000
//SORTWK05 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                              00230000
//SORTWK06 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                              00240000
//ACFSORT PEND                                                          00250000
//*                                                                      00260000
//******************************                                        00270005
//* ACF2 REPORT GENERATOR PROC                                          00280000
//******************************                                        00290005
//ACFRPT PROC PROG=,          LAST TWO CHARS OF REPORT GEN NAME          00300005
//       DS=                  INPUT TO REPORT GENERATOR                  00310005
//REPORT  EXEC PGM=ACFRPT&PROG                                           00320005
//SYSPRINT DD SYSOUT=*                                                   00330000
//SYSUDUMP DD SYSOUT=*                                                   00340000
//RECORDS  DD DSN=&DS,DISP=(OLD,PASS)                                    00350000
//ACFRPT  PEND                                                          00360005
//*                                                                      00370000
//*--------------------------------------------------------------------- 00380005
//*  SPLIT THE SMF INPUT FILE(S) INTO SEPARATE FILES BASED UPON          00390005
//*  ACF2 RECORD TYPES AND SUBTYPES                                      00400005
//*--------------------------------------------------------------------- 00410005
//PRESCAN EXEC PGM=ACFRPTPP,REGION=384K                                  00420000
//SYSPRINT DD SYSOUT=*                                                   00430000
//SYSUDUMP DD SYSOUT=*                                                   00440000
//RECMAN1  DD DSN=SYSX.MAN1,DISP=SHR                                     00450005
//SMFPR    DD DSN=&PR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00460005
//SMFER    DD DSN=&ER,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00470005
//SMFVR    DD DSN=&VR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00480005
//SMFJR    DD DSN=&JR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00490005
//SMFAR    DD DSN=&AR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00500005
```

SYS1.ACFJOBS(REPORTS)

```
//SMFCR    DD DSN=&CR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00510005
//SMFTR    DD DSN=&TR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00520005
//SMFDR1   DD DSN=&DR1,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00530005
//SMFDR2   DD DSN=&DR2,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00540005
//SMFDR3   DD DSN=&DR3,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00550005
//SMFDR4   DD DSN=&DR4,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00560005
//SMFNR    DD DSN=&NR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA          00570008
//*                                                                      00580000
//*-------------------------------------------------------------------   00590005
//*  SORT THE RESTRICTED LOGONID TRACE RECORDS                           00600005
//*  BY LOGONID, DATE, AND TIME                                          00610000
//*-------------------------------------------------------------------   00620005
//SORTJOB EXEC ACFSORT,REGION=384K,INDS='&TR',OUTDS='&STR'               00630000
//SYSIN DD *                                                            00640000
 SORT FIELDS=(19,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000                  00650000
 END                                                                    00660000
//*                                                                     00670000
//*-------------------------------------------------------------------   00680005
//*  SORT THE INVALID PASSWORD/AUTHORITY VIOLATION                       00690005
//*  RECORDS BY LOGONID, DATE, AND TIME                                  00700000
//*-------------------------------------------------------------------   00710005
//SORTPSW EXEC ACFSORT,REGION=384K,INDS='&PR',OUTDS='&SPR'               00720000
//SYSIN DD *                                                            00730000
 SORT FIELDS=(19,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000                  00740000
 END                                                                    00750000
//*                                                                     00760000
//*-------------------------------------------------------------------   00770005
//*  SORT THE DATASET LOGGING RECORDS                                    00780005
//*  BY DATASET NAME, LOGONID, DATE, AND TIME                            00790005
//*-------------------------------------------------------------------   00800005
//SORTDSL EXEC ACFSORT,REGION=384K,INDS='&DR1',OUTDS='&SDR1'             00810000
//SYSIN DD *                                                            00820000
 SORT FIELDS=(48,44,CH,A,207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000      00830000
 END                                                                    00840000
//*                                                                     00850000
//*-------------------------------------------------------------------   00860005
//*  SORT THE DATASET VIOLATION RECORDS                                  00870005
//*  BY DATASET NAME, LOGONID, DATE, AND TIME                            00880005
//*-------------------------------------------------------------------   00890005
//SORTDSV EXEC ACFSORT,REGION=384K,INDS='&DR2',OUTDS='&SDR2'             00900000
//SYSIN DD *                                                            00910000
 SORT FIELDS=(48,44,CH,A,207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000      00920000
 END                                                                    00930000
//*                                                                     00940000
//*-------------------------------------------------------------------   00950005
//*  SORT THE DATASET TRACE RECORDS                                      00960005
//*  BY LOGONID, DATE, AND TIME                                          00970005
//*-------------------------------------------------------------------   00980005
//SORTDST EXEC ACFSORT,REGION=384K,INDS='&DR3',OUTDS='&SDR3'             00990000
//SYSIN DD *                                                            01000000
```


SYS1.ACFJOBS(REPORTS)

```
 SORT FIELDS=(207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000                  01010000
 END                                                                     01020000
//*                                                                      01030000
//*-------------------------------------------------------------------   01040005
//*  SORT THE PROTECTED PROGRAM VIOLATIONS AND LOGGINGS                  01050005
//*  BY PROGRAM NAME, LOGONID, DATE, AND TIME                            01060005
//*-------------------------------------------------------------------   01070005
//SORTDSP EXEC ACFSORT,REGION=384K,INDS='&DR4',OUTDS='&SDR4'              01080000
//SYSIN DD *                                                            01090000
 SORT FIELDS=(167,8,CH,A,207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000       01100000
 END                                                                     01110000
//*                                                                      01120000
//*-------------------------------------------------------------------   01130005
//*  SORT THE TSO COMMAND RECORDS                                        01140005
//*  BY JOBNAME, DATE, AND TIME                                          01150005
//*-------------------------------------------------------------------   01160005
//SORTCR  EXEC ACFSORT,REGION=384K,INDS='&CR',OUTDS='&SCR'                01170000
//SYSIN DD *                                                            01180000
 SORT FIELDS=(19,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000                   01190000
 END                                                                     01200000
//*                                                                      01210000
//*-------------------------------------------------------------------   01220005
//*  SORT THE RESOURCE VIOLATION/LOGGING RECORDS                         01230005
//*  BY RESOURCE KEY, LOGONID, DATE, TIME                                01240005
//*-------------------------------------------------------------------   01250005
//SORTVR EXEC ACFSORT,REGION=384K,INDS='&VR',OUTDS='&SVR'                 01260000
//SYSIN DD *                                                            01270000
 SORT FIELDS=(69,44,CH,A,95,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000        01280000
 END                                                                     01290000
//*                                                                      01300000
//*                                                                      01301005
//*-------------------------------------------------------------------   01310005
//*  RESTRICTED LOGONID JOB LOG REPORT                                   01320005
//*-------------------------------------------------------------------   01330005
//JOBLOG EXEC ACFRPT,PROG=JL,DS='&STR'                                    01340000
//*                                                                      01350000
//*                                                                      01351005
//*-------------------------------------------------------------------   01360005
//*  INVALID PASSWORD/AUTHORITY REPORT                                   01370005
//*-------------------------------------------------------------------   01380005
//PASSWD EXEC ACFRPT,PROG=PW,DS='&SPR'                                    01390000
//*                                                                      01400000
//*                                                                      01401005
//*-------------------------------------------------------------------   01410005
//*  LOGONID JOURNAL REPORT                                              01420005
//*-------------------------------------------------------------------   01430005
//LOGONID EXEC ACFRPT,PROG=LL,DS='&JR'                                    01440000
//*                                                                      01450000
//*                                                                      01451005
//*-------------------------------------------------------------------   01460005
```

SYS1.ACFJOBS(REPORTS)

```
//*  INFORMATION STORAGE JOURNAL REPORT                                  0147000
//*-------------------------------------------------------------------- 01480005
//INFOLOG EXEC ACFRPT,PROG=EL,DS='&ER'                                   01490000
//*                                                                      01500000
//*                                                                      01501005
//*-------------------------------------------------------------------- 01510005
//*  GENERALIZED RESOURCE TRACE LOG                                      01520005
//*-------------------------------------------------------------------- 01530005
//RSRCTRCE EXEC ACFRPT,PROG=RV,DS='&SVR',                                01540000
// PARM='TRACE TITLE(GEN. RESOURCE TRACE)'                               01550000
//*                                                                      01560000
//*                                                                      01561005
//*-------------------------------------------------------------------- 01570005
//*  GENERALIZED RESOURCE LOGGING REPORT                                 01580005
//*-------------------------------------------------------------------- 01590005
//RSRCLOG EXEC ACFRPT,PROG=RV,DS='&SVR',                                 01600000
// PARM='LOG TITLE(GEN. RESOURCE LOG)'                                   01610000
//*                                                                      01620000
//*                                                                      01621005
//*-------------------------------------------------------------------- 01630005
//*  GENERALIZED RESOURCE VIOLATION REPORT                               01640005
//*-------------------------------------------------------------------- 01650005
//RSRCVIO EXEC ACFRPT,PROG=RV,DS='&SVR',                                 01660000
// PARM='VIO TITLE(GEN. RESOURCE VIOLATIONS)'                            01670000
//*                                                                      01680000
//*                                                                      01681005
//*-------------------------------------------------------------------- 01690005
//*  RULE ID JOURNAL REPORT                                              01700005
//*-------------------------------------------------------------------- 01710005
//RULEID EXEC ACFRPT,PROG=RL,DS='&AR'                                    01720000
//*                                                                      01730000
//*                                                                      01731005
//*-------------------------------------------------------------------- 01740005
//*  DATASET LOGGING RECORD REPORT                                       01750005
//*-------------------------------------------------------------------- 01760005
//DSLOGS  EXEC ACFRPT,PROG=DS,DS='&SDR1',                                01770000
// PARM='TITLE(DATASET LOGGING RECORDS)'                                 01780000
//*                                                                      01790000
//*                                                                      01791005
//*-------------------------------------------------------------------- 01800005
//*  DATASET VIOLATION RECORDS REPORT                                    01810005
//*-------------------------------------------------------------------- 01820005
//DSVIOS  EXEC ACFRPT,PROG=DS,DS='&SDR2',                                01830000
// PARM='TITLE(DATASET VIOLATION RECORDS)'                               01840000
//*                                                                      01850000
//*                                                                      01851005
//*-------------------------------------------------------------------- 01860005
//*  DATASET TRACE RECORDS REPORT                                        01870005
//*-------------------------------------------------------------------- 01880005
//DSTRACE EXEC ACFRPT,PROG=DS,DS='&SDR3',                                01890000
```

SYS1.ACFJOBS(REPORTS)

```
// PARM='TITLE(DATASET TRACE RECORDS)'                                  01900000
//*                                                                     01910000
//*                                                                     01911005
//*--------------------------------------------------------------------- 01920005
//* PROTECTED PROGRAM RECORDS REPORT                                    01930005
//*--------------------------------------------------------------------- 01940005
//DSPGMS  EXEC ACFRPT,PROG=DS,DS='&SDR4',                               01950000
// PARM='TITLE(PROTECTED PROGRAM RECORDS)'                              01960000
//*                                                                     01970000
//*                                                                     01971005
//*--------------------------------------------------------------------- 01980005
//*  TSO COMMAND RECORDS REPORT                                         01990005
//*--------------------------------------------------------------------- 02000005
//CMDREC  EXEC ACFRPT,PROG=CR,DS='&SCR'                                 02010000
//*                                                                     02020001
//*                                                                     02021005
//*--------------------------------------------------------------------- 02030005
//*  ENVIRONMENT REPORT                                                 02040005
//*--------------------------------------------------------------------- 02050005
//ENVIRO  EXEC ACFRPT,PROG=NV,DS='&NR',                                 02060008
// PARM='TITLE(ENVIRONMENT RECORDS)'                                    02070001
```

SYS1.ACFJOBS(REPORTS) MODIFIED FOR TLC

```
//TLC0091 JOB (SKK,),'PETER GARZA',MSGCLASS=X,NOTIFY=PETE315                00010000
//JOBLIB DD DSN=SYS1.SORTLIB,DISP=SHR                                       00011000
//*************************************************************************00020000
//*                                                                         00030000
//*  THIS JOB MAY BE USED TO PRODUCE A COPY OF EACH OF                      00040000
//*  THE ACF2 REPORTS                                                       00050000
//*                                                                         00060000
//*************************************************************************00070000
//*                                                                         00080000
//*******************************                                          00090000
//* SORT CONTROL PROC                                                       00100000
//*******************************                                          00110000
//ACFSORT PROC INDS=,         INPUT DATASET TO BE SORTED                    00120000
//         OUTDS=,            OUTPUT DATASET IN SORTED ORDER                00130000
//         SYSDA=SYSDA        SCRATCH UNIT - USE VIO UNIT                   00140000
//SORT    EXEC PGM=SYNCSORT,REGION=512K,PARM='SIZE(320000)'                 00150000
//SYSOUT   DD SYSOUT=*                                                      00160000
//SORTIN   DD DSN=&INDS,DISP=(OLD,DELETE)                                   00170000
//SORTOUT  DD DSN=&OUTDS,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=&SYSDA         00180000
//SORTWK01 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                                 00190000
//SORTWK02 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                                 00200000
//SORTWK03 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                                 00210000
//SORTWK04 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                                 00220000
//SORTWK05 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                                 00230000
//SORTWK06 DD UNIT=&SYSDA,SPACE=(CYL,(1,1))                                 00240000
//ACFSORT PEND                                                              00250000
//*                                                                         00260000
//*******************************                                          00270000
//* ACF2 REPORT GENERATOR PROC                                              00280000
//*******************************                                          00290000
//ACFRPT PROC PROG=,          LAST TWO CHARS OF REPORT GEN NAME             00300000
//       DS=                  INPUT TO REPORT GENERATOR                     00310000
//REPORT  EXEC PGM=ACFRPT&PROG                                              00320000
//SYSPRINT DD DSN=USRPEG.REPORTS.DATA1,DISP=(MOD,KEEP),UNIT=SYSDA,          00330000
//         SPACE=(CYL,(1,1))                                                00331000
//SYSUDUMP DD SYSOUT=*                                                      00340000
//RECORDS  DD DSN=&DS,DISP=(OLD,PASS)                                       00350000
//ACFRPT  PEND                                                              00360000
//*                                                                         00370000
//*------------------------------------------------------------------------00380000
//*  SPLIT THE SMF INPUT FILE(S) INTO SEPARATE FILES BASED UPON             00390000
//*  ACF2 RECORD TYPES AND SUBTYPES                                         00400000
//*------------------------------------------------------------------------00410000
//PRESCAN EXEC PGM=ACFRPTPP,REGION=384K,                                    00420000
// PARM='SDATE(83012),EDATE(83018)'                                         00420100
//SYSPRINT DD DSN=USRPEG.REPORTS.DATA1,DISP=(NEW,CATLG,DELETE),             00421000
//         UNIT=SYSDA,SPACE=(CYL,(1,1))                                     00422000
//SYSUDUMP DD SYSOUT=*                                                      00440000
//RECMANO  DD DSN=TLC009.DUMP.DATA.G0018V00,DISP=OLD,UNIT=TAPE,             00450003
//         VOL=SER=SMF018                                                   00450100
```

SYS1.ACFJOBS(REPORTS) MODIFIED FOR TLC

```
//RECMAN1  DD DSN=SYS1.MAN1,DISP=SHR                                    00451000
//RECMAN2  DD DSN=SYS1.MAN2,DISP=SHR                                    00452000
//RECMAN3  DD DSN=SYS1.MAN3,DISP=SHR                                    00453000
//SMFPR    DD DSN=&PR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00460000
//SMFER    DD DSN=&ER,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00470000
//SMFVR    DD DSN=&VR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00480000
//SMFJR    DD DSN=&JR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00490000
//SMFAR    DD DSN=&AR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00500000
//SMFCR    DD DSN=&CR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00510000
//SMFTR    DD DSN=&TR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00520000
//SMFDR1   DD DSN=&DR1,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA        00530000
//SMFDR2   DD DSN=&DR2,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA        00540000
//SMFDR3   DD DSN=&DR3,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA        00550000
//SMFDR4   DD DSN=&DR4,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA        00560000
//SMFNR    DD DSN=&NR,SPACE=(CYL,(1,1)),DISP=(,PASS),UNIT=SYSDA         00570000
//*                                                                     00580000
//*--------------------------------------------------------------------- 00590000
//*  SORT THE RESTRICTED LOGONID TRACE RECORDS                          00600000
//*  BY LOGONID, DATE, AND TIME                                         00610000
//*--------------------------------------------------------------------- 00620000
//SORTJOB EXEC ACFSORT,REGION=384K,INDS='&TR',OUTDS='&STR'              00630000
//SYSIN DD *                                                            00640000
 SORT FIELDS=(19,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000                 00650000
 END                                                                    00660000
//*                                                                     00670000
//*--------------------------------------------------------------------- 00680000
//*  SORT THE INVALID PASSWORD/AUTHORITY VIOLATION                      00690000
//*  RECORDS BY LOGONID, DATE, AND TIME                                 00700000
//*--------------------------------------------------------------------- 00710000
//SORTPSW EXEC ACFSORT,REGION=384K,INDS='&PR',OUTDS='&SPR'              00720000
//SYSIN DD *                                                            00730000
 SORT FIELDS=(19,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000                 00740000
 END                                                                    00750000
//*                                                                     00760000
//*--------------------------------------------------------------------- 00770000
//*  SORT THE DATASET LOGGING RECORDS                                   00780000
//*  BY DATASET NAME, LOGONID, DATE, AND TIME                           00790000
//*--------------------------------------------------------------------- 00800000
//SORTDSL EXEC ACFSORT,REGION=384K,INDS='&DR1',OUTDS='&SDR1'            00810000
//SYSIN DD *                                                            00820000
 SORT FIELDS=(48,44,CH,A,207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000     00830000
 END                                                                    00840000
//*                                                                     00850000
//*--------------------------------------------------------------------- 00860000
//*  SORT THE DATASET VIOLATION RECORDS                                 00870000
//*  BY DATASET NAME, LOGONID, DATE, AND TIME                           00880000
//*--------------------------------------------------------------------- 00890000
//SORTDSV EXEC ACFSORT,REGION=384K,INDS='&DR2',OUTDS='&SDR2'            00900000
//SYSIN DD *                                                            00910000
 SORT FIELDS=(48,44,CH,A,207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000     00920000
```

SYS1.ACFJOBS(REPORTS) MODIFIED FOR TLC

```
 END                                                                    00930000
//*                                                                     00940000
//*-------------------------------------------------------------------- 00950000
//*  SORT THE DATASET TRACE RECORDS                                     00960000
//*  BY LOGONID, DATE, AND TIME                                         00970000
//*-------------------------------------------------------------------- 00980000
//SORTDST EXEC ACFSORT,REGION=384K,INDS='&DR3',OUTDS='&SDR3'            00990000
//SYSIN DD *                                                          01000000
 SORT FIELDS=(207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000               01010000
 END                                                                  01020000
//*                                                                   01030000
//*-------------------------------------------------------------------- 01040000
//*  SORT THE PROTECTED PROGRAM VIOLATIONS AND LOGGINGS                 01050000
//*  BY PROGRAM NAME, LOGONID, DATE, AND TIME                           01060000
//*-------------------------------------------------------------------- 01070000
//SORTDSP EXEC ACFSORT,REGION=384K,INDS='&DR4',OUTDS='&SDR4'            01080000
//SYSIN DD *                                                          01090000
 SORT FIELDS=(167,8,CH,A,207,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000    01100000
 END                                                                  01110000
//*                                                                   01120000
//*-------------------------------------------------------------------- 01130000
//*  SORT THE TSO COMMAND RECORDS                                       01140000
//*  BY JOBNAME, DATE, AND TIME                                         01150000
//*-------------------------------------------------------------------- 01160000
//SORTCR  EXEC ACFSORT,REGION=384K,INDS='&CR',OUTDS='&SCR'              01170000
//SYSIN DD *                                                          01180000
 SORT FIELDS=(19,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000                01190000
 END                                                                  01200000
//*                                                                   01210000
//*-------------------------------------------------------------------- 01220000
//*  SORT THE RESOURCE VIOLATION/LOGGING RECORDS                        01230000
//*  BY RESOURCE KEY, LOGONID, DATE, TIME                               01240000
//*-------------------------------------------------------------------- 01250000
//SORTVR EXEC ACFSORT,REGION=384K,INDS='&VR',OUTDS='&SVR'               01260000
//SYSIN DD *                                                          01270000
 SORT FIELDS=(69,44,CH,A,95,8,CH,A,11,4,PD,A,7,4,BI,A),SIZE=E5000     01280000
 END                                                                  01290000
//*                                                                   01300000
//*                                                                   01301000
//*-------------------------------------------------------------------- 01310000
//*  RESTRICTED LOGONID JOB LOG REPORT                                  01320000
//*-------------------------------------------------------------------- 01330000
//JOBLOG EXEC ACFRPT,PROG=JL,DS='&STR',                                 01340000
//       PARM='MASK(TLC-)'                                            01341000
//*                                                                   01350000
//*                                                                   01351000
//*-------------------------------------------------------------------- 01360000
//*  INVALID PASSWORD/AUTHORITY REPORT                                  01370000
//*-------------------------------------------------------------------- 01380000
//PASSWD EXEC ACFRPT,PROG=PW,DS='&SPR',                                 01390000
```

SYS1.ACFJOBS(REPORTS) MODIFIED FOR TLC

```
//       PARM='MASK(TLC-)'                                                    01391000
//*                                                                           01400000
//*                                                                           01401000
//*-------------------------------------------------------------------------- 01410000
//*  LOGONID JOURNAL REPORT                                                   01420000
//*-------------------------------------------------------------------------- 01430000
//LOGONID EXEC ACFRPT,PROG=LL,DS='&JR',                                       01440000
//       PARM='MASK(TLC-)'                                                    01441000
//*                                                                           01450000
//*                                                                           01451000
//*-------------------------------------------------------------------------- 01460000
//*  INFORMATION STORAGE JOURNAL REPORT                                       01470000
//*-------------------------------------------------------------------------- 01480000
//INFOLOG EXEC ACFRPT,PROG=EL,DS='&ER',                                       01490000
//       PARM='MASK(TLC-)'                                                    01491000
//*                                                                           01500000
//*                                                                           01501000
//*-------------------------------------------------------------------------- 01510000
//*  GENERALIZED RESOURCE TRACE LOG                                           01520000
//*-------------------------------------------------------------------------- 01530000
//RSRCTRCE EXEC ACFRPT,PROG=RV,DS='&SVR',                                     01540000
// PARM='TRACE TITLE(GEN. RESOURCE TRACE),UID(TC)'                            01550000
//*                                                                           01560000
//*                                                                           01561000
//*-------------------------------------------------------------------------- 01570000
//*  GENERALIZED RESOURCE LOGGING REPORT                                      01580000
//*-------------------------------------------------------------------------- 01590000
//RSRCLOG EXEC ACFRPT,PROG=RV,DS='&SVR',                                      01600000
// PARM='LOG TITLE(GEN. RESOURCE LOG),UID(TC)'                               01610000
//*                                                                           01620000
//*                                                                           01621000
//*-------------------------------------------------------------------------- 01630000
//*  GENERALIZED RESOURCE VIOLATION REPORT                                    01640000
//*-------------------------------------------------------------------------- 01650000
//RSRCVIO EXEC ACFRPT,PROG=RV,DS='&SVR',                                      01660000
// PARM='VIO TITLE(GEN. RESOURCE VIOLATIONS),UID(TC)'                        01670000
//*                                                                           01680000
//*                                                                           01681000
//*-------------------------------------------------------------------------- 01690000
//*  RULE ID JOURNAL REPORT                                                   01700000
//*-------------------------------------------------------------------------- 01710000
//RULEID EXEC ACFRPT,PROG=RL,DS='&AR',PARM='MASK(PAYROL)'                     01720000
//*                                                                           01730000
//*                                                                           01731000
//*-------------------------------------------------------------------------- 01740000
//*  DATASET LOGGING RECORD REPORT                                            01750000
//*-------------------------------------------------------------------------- 01760000
//DSLOGS  EXEC ACFRPT,PROG=DS,DS='&SDR1',                                     01770000
// PARM=('TITLE(DATASET LOGGING RECORDS),LOGGING',                           X01780000
// 'MASK(PAY-.-),LIDMASK(TLC-)')                                             01781000
```


SYS1.ACFJOBS(REPORTS) MODIFIED FOR TLC

SYS1.ACFJOBS (REPORTS)
MODIFIED FOR TLC

```
//*                                                                    01790000
//*                                                                    01791000
//*------------------------------------------------------------------- 01800000
//*  DATASET VIOLATION RECORDS REPORT                                  01810000
//*------------------------------------------------------------------- 01820000
//DSVIOS  EXEC ACFRPT,PROG=DS,DS='&SDR2',                              01830000
// PARM=('TITLE(DATASET VIOLATION RECORDS),VIO',                      X01840001
// 'MASK(PAY-.-),LIDMASK(TLC-)')                                       01841000
//*                                                                    01850000
//*                                                                    01851000
//*------------------------------------------------------------------- 01860000
//*  DATASET TRACE RECORDS REPORT                                      01870000
//*------------------------------------------------------------------- 01880000
//DSTRACE EXEC ACFRPT,PROG=DS,DS='&SDR3',                              01890000
// PARM=('TITLE(DATASET TRACE RECORDS),TRACE',                        X01900001
// 'MASK(PAY-.-),LIDMASK(TLC-)')                                       01901000
//*                                                                    01910000
//*                                                                    01911000
//*------------------------------------------------------------------- 01920000
//* PROTECTED PROGRAM RECORDS REPORT                                   01930000
//*------------------------------------------------------------------- 01940000
//DSPGMS  EXEC ACFRPT,PROG=DS,DS='&SDR4',                              01950000
// PARM=('TITLE(PROTECTED PROGRAM RECORDS),PGMNAME',                  X01960001
// 'MASK(PAY-.-),LIDMASK(TLC-)')                                       01961000
//*                                                                    01970000
//*                                                                    01971000
//*------------------------------------------------------------------- 01972000
//* THIS STEP PRODUCES THE DATASET INDEX REPORT                        01973000
//*------------------------------------------------------------------- 01974000
//INDEX   EXEC ACFRPT,PROG=IX,DS='&JR',                                01975000
// PARM='TITLE(DATASET INDEX REPORT),PREFIX(PAYROLL)'                  01976000
//RECORDS2  DD DSN=&AR,DISP=(OLD,PASS)                                 01977000
//DETAIL    DD DSN=USRPEG.REPORTS.DATA,DISP=(MOD,KEEP),UNIT=SYSDA,     01977100
//          SPACE=(TRK,(5,2))                                          01977202
//*                                                                    01978000
//*                                                                    01979000
//*------------------------------------------------------------------- 02030000
//*  ENVIRONMENT REPORT                                                02040000
//*------------------------------------------------------------------- 02050000
//ENVIRO  EXEC ACFRPT,PROG=NV,DS='&NR',                                02060000
// PARM='TITLE(ENVIRONMENT RECORDS)'                                   02070000
```

Revised: October 9, 1984

JCL FOR ACFRPTSL, ACFRPTXR, AND ACFRPTRX RUNS

```
//TLC0091 JOB (SKK,),'TOM REPEDE',MSGCLASS=X,NOTIFY=TLC009
//JOBLIB   DD  DSN=SYS1.SORTLIB,DISP=SHR
//*
//*  THIS STEP PRODUCES THE SELECTED LOGONID LIST
//*
//SL1      EXEC PGM=ACFRPTSL,
// PARM=('IF((SEC-VIO * 2) GT (ACC-CNT * 3)),SFLDS(SEC-VIO,ACC-CNT)',  X
//       'REPORT(SHORT),INPUT(ACF2)')
//SYSLIB   DD  DSN=SYS1.LPALIB,DISP=SHR
//SYSPRINT DD  SYSOUT=*,DCB=(LRECL=133,BLKSIZE=1330,RECFM=FBA)
//*
//*  THIS STEP PRODUCES THE SELECTED LOGONID LIST
//*
//SL2      EXEC PGM=ACFRPTSL,
// PARM=('IF(ACC-DATE LT D''02/01/83''),SFLDS(ACC-DATE)',              X
//       'REPORT(SHORT),INPUT(ACF2)')
//SYSLIB   DD  DSN=SYS1.LPALIB,DISP=SHR
//SYSPRINT DD  SYSOUT=*,DCB=(LRECL=133,BLKSIZE=1330,RECFM=FBA)
//*
//*  THIS STEP PRODUCES THE SELECTED LOGONID LIST
//*
//SL3      EXEC PGM=ACFRPTSL,
// PARM=('MASK(TLC005)',                                              X
//       'REPORT(FULL),INPUT(SMF)')
//SYSLIB   DD  DSN=SYS1.LPALIB,DISP=SHR
//SYSPRINT DD  SYSOUT=*,DCB=(LRECL=133,BLKSIZE=1330,RECFM=FBA)
//RECORD01 DD  DSN=SYS1.DUMP.DATA.G0018V00,UNIT=SYSSQ,
//             DISP=OLD,VOL=SER=SMF018
//*
//*   THIS STEP PRODUCES THE DATASET CROSS-REFERENCE REPORT
//*
//XREF     EXEC PGM=ACFRPTXR,REGION=2048K,
//  PARM='TITLE(DATASET CROSS-REFERENCE REPORT),DSET,ACF2'
//SYSPRINT  DD SYSOUT=*
//SYSUT1    DD UNIT=SYSDA,SPACE=(CYL,(2,2)),DCB=BUFNO=30,
//             VOL=SER=WORK01
//SYSUT2    DD UNIT=SYSDA,SPACE=(CYL,(2,2)),DCB=BUFNO=30,
//             VOL=SER=WORK02
//SYSDSLST  DD *
PAYROLL.PROD.LOADLIB
//*
//*   THIS STEP PRODUCES THE LOGONID ACCESS REPORT
//*
//RXREF    EXEC PGM=ACFRPTRX,REGION=2048K,
//  PARM='DSET,RMASK(PAYROLL)'
//SYSPRINT  DD SYSOUT=*
//SYSUT1    DD UNIT=SYSDA,SPACE=(CYL,(2,2)),DCB=BUFNO=30,
//             VOL=SER=WORK01
//SYSUT2    DD UNIT=SYSDA,SPACE=(CYL,(2,2)),DCB=BUFNO=30,
//             VOL=SER=WORK02
//SYSIDLST  DD *
LID(TLC007)
//
READY
```

REVIEW

CRITICAL

CONTROLS

Revised: 5/3/83

ACFFDR CRITICAL CONTROLS

VERIFY SYSOUT DATE

REVIEW @CFDE MACROS

REVIEW SHOW OUTPUT

Revised: 10/18/84

FIELD DEFINITION RECORD ASSEMBLY


```
ACFFDR   -   FIELD DEFINITION RECORD                                                                    PAGE

  LOC  OBJECT CODE    ADDR1 ADDR2  STMT   SOURCE STATEMENT                                   ASM 0201 09.13 01/18/83
                                      2 *********************************************************************** 0002000
                                      3 *                                                                     * 0003000
                                      4 *         LOCAL INSTALLATIONS SHOULD NOT RENUMBER ANY SKK PROVIDED    * 0004000
                                      5 *         PORTIONS OF THE FDR AS ACF2 MAINTENANCE MAY BE APPLIED TO   * 0005000
                                      6 *         IT IN THE FUTURE.                                           * 0006000
                                      7 *                                                                     * 0007000
                                      8 *********************************************************************** 0008000
000000                                9 ACFFDR    CSECT                                                           0009000
                                     10           @SETUP ,                                                        0010000
                                     11+*-------------------------------------------------------------            0035000
                                     12+* EQUATES AND MAPPINGS REQUIRED FOR STRUCTURE/RECORD DEFINITION           0036000
                                     13+*-------------------------------------------------------------            0037000

                                     15+********************************************************************** 0002000
                                     16+*                                                                  * 0003000
                                     17+*                                                                  * 0004000
                                     18+*                A C F 2    - ACCESS CONTROL FACILITY              * 0005000
                                     19+*               ------------------------------------              * 0006000
                                     20+*                 (  RELEASE 4.0  12 DECEMBER 1984 )               * 0007000
                                     21+*                                                                  * 0008000
                                     22+*                                                                  * 0009000
                                     23+*                                                                  * 0010000
                                     24+*                SKK, INC.                                         * 0011000
                                     25+*                10400 HIGGINS ROAD                                * 0012000
                                     26+*                ROSEMONT, ILLINOIS  60018                         * 0013000
                                     27+*                                                                  * 0014000
                                     28+*                TELEPHONE: (312) 635-3000                         * 0015000
                                     29+*                           (312) 635-1040                         * 0016000
                                     30+*                                                                  * 0017000
                                     31+*                TELEX: 206-186  SKK ROSM                          * 0018000
                                     32+*                                                                  * 0019000
                                     33+*                                                                  * 0020000
                                     34+*                         RELEASE 1.0   - 02/05/78                 * 0021000
                                     35+*                         RELEASE 2.0   - 06/01/78                 * 0022000
                                     36+*                         RELEASE 2.1   - 09/01/78                 * 0023000
                                     37+*                         VERSION 2.1.1 - 10/05/78                 * 0024000
                                     38+*                         VERSION 2.1.2 - 01/11/79                 * 0025000
                                     39+*                         VERSION 2.1.3 - 06/28/79                 * 0026000
                                     40+*                         RELEASE 2.2   - 04/28/79                 * 0027000
                                     41+*                         RELEASE 2.2.0 - 06/22/79                 * 0028000
                                     42+*                         VERSION 2.2.1 - 09/16/79                 * 0029000
                                     43+*                         VERSION 2.2.2 - 09/15/80                 * 0030000
                                     44+*                         VERSION 2.2.3 - 01/01/81                 * 0031000
                                     45+*                         RELEASE 3.0   - 05/15/81                 * 0032000
                                     46+*                         RELEASE 3.1   - 04/01/82                 * 0033000
                                     47+*                         VERSION 3.1.3 - 09/01/82                 * 0034000
                                     48+*                         VERSION 3.1.4 - 09/01/83                 * 0035000
                                     49+*                         VERSION 4.0   - 12/01/84                 * 0036000
                                     50+*                                                                  * 0037000
                                     51+*                                                                  * 0038000
```

ACF SHOW COMMANDS

```
READY
acf
? show state
 RUNNING ACF2 REL  4.0; WITH MODE = ABORT
 USING FDR ASSEMBLY:  21.47  06/01/83

 OPTIONS IN EFFECT:
 TAPE BLP=LOG                CONTROL=DECENTRALIZED
 %CHANGE=ALLOWED             CPUTIME=LOCAL
 DATE FORMAT=MM/DD/YY        STC DFLT LID=ACFSTCID
 DEFAULT LID=SKKDFT          JOB CHECK=NO
 MAX VIO PER JOB=10          STC OPTION=OFF
 TAPE DSN=NO                 UADS=BYPASS
 NOSORT=NO

 PASSWORD OPTIONS IN EFFECT:
 LOGON RETRY COUNT=2         MIN PSWD LENGTH=5
 MAX PSWD ATTEMPTS=3         PSWD ALTER=YES
 PSWD FORCE=YES              PSWD-JES=ON
 PSWD WARN DAYS=3            X-OUT MASK=17 CHAR
 PSWD ALGORITHM USED=R221

 UID STRING = COMPANY,SITE,LEVEL,PROJECT,LID,IDNUM

 DECOMP AUTHORITY = ALL

 -- DSNAME PROTECTED VOLUMES --
 ******
 -- VOLSER PROTECTED VOLUMES --
 ******
?
```

Revised: 10/10/84

ACF SHOW COMMANDS

```
 show tso
-- TSO RELATED DEFAULTS ACTIVE --
LOGON ACCOUNT STRING=1
CMD LIST BYPASS CHAR=#      CHAR DELETE CHAR=NONE
TSO CMD LIST=NONE           COMMAND SMF RECORDS=NO
LINE DELETE CHAR=NONE       LOGON CHECK=NO
PERFORMANCE GROUP=NONE      TSO LOGON PROC=IKJACCNT
QUICK LOGON=YES             TSO REGIONSIZE=1024
SUBMIT CLASS=NONE           SUBMIT HOLD CLASS=NONE
SUBMIT MSGCLASS=NONE        SESSION TIME=0
SYSOUT CLASS=A              TSO UNITNAME=SYSDA
LOGON WAIT TIME=60
?
```

```
 show active
-- ACF2 INTERCEPTS THAT HAVE RECEIVED CONTROL --
DASD-OPEN(YES)              DASD-EOV(YES)
VSAM-OPEN(YES)              TAPE-OPEN(YES)
TAPE-EOV(YES)               CATALOG(YES)
DASD-ALOC(YES)              DASD-RENAME(YES)
DASD-SCRATCH(YES)           USER CALL(NO)
EXTERNAL CALL(NO)           PROGRAM CALL(YES)
JOB INIT(YES)               JOB/STEP TERM(YES)
TSO-MVS(YES)                CAT-CVOL(NO)
READER-VS1(NO)              INTERP-VS1(NO)

-- LOCAL EXITS SPECIFIED ON THIS SYSTEM --
DSN PRE-VALIDATE=SKKVALD
DSN POST-VALIDATE=POSTVLD (INACTIVE)
DSN VIOLATION=SKKVIO
PSEUDO DSN GENERATE=NONE
RSRC PRE-VALIDATE=NONE
RSRC POST-VALIDATE=NONE
STC VALIDATE=NONE
SOURCE MODIFICATION=NONE
LOGON PRE-VALIDATE=NONE
LOGON POST-VALIDATE=NONE
PASSWORD EXPIRATION=NONE
NEW PASSWORD=NONE
RULE DB PRE-PROCESS=NONE
RULE DB PST-PROCESS=NONE
INFO DB PRE-PROCESS=NONE
INFO DB PST-PROCESS=NONE
SVC INITIALIZATION=NONE
-- ACF2 TRACE FACILITY --
GSO TRACE OPTION=OFF
```

Revised: October 9, 1984

ACF SHOW COMMANDS

```
SHOW SYSTEM
 -- SYSTEM PARAMETERS IN EFFECT --

 SVCS:
 ALTER SVC=237                VALIDATE SVC=236

 SMF RECORD NUMBERS:
 PASSWORD=220                 DATASET VIO=221          LID JOURNAL=222
 RULE JOURNAL=223             LID TRACE=224            TSO COMMAND=225
 INFO JOURNAL=226             RESOURCE VIO=227         ACF2 COMMON=230

 BACKUP:
 AUTO BACKUP TIME=03.30       CPU-ID=TLC1
 COMMAND STRING=

 NJE OPTIONS IN EFFECT:
 VALIDATE OUT =YES            VALIDATE IN =YES         INHERIT =YES

 OTHER:
 CONSOLE MSGS=ROLL            SHR-DASD=SUPPORTED       SMF LOGONID STAMP=NO
 JES2-XBM=NO VALIDATE         LOGONID LENGTH = 1024    LAB NUMBER=      5
 LABEXP=  01:05:00            NOTIFY=YES               CURRENT SYSID=TLC1
 STARTUP SYSID=TLC1           BUILT ACCVT=TLC1
```

```
show resident
-- RESIDENT DIRECTORIES --
  DSD, RULES GLOBALLY RESIDENT
  PGM, RULES GLOBALLY RESIDENT

-- RESIDENT ACCESS RULES --
  SYS1         SKK          SSD          ISP
?
```

```
show zeroflds

-- FIELD VALUES WHICH WILL NOT BE COPIED DURING 'INSERT USING' PROCESS
PASSWORD     PSWD-TOD     NAME         PHONE        UPD-TOD      SEC-VIO
PSWD-VIO     PSWD-DAT     ACC-DATE     ACC-TIME     ACC-CNT      ACCTPRIV
OPERATOR     NON-CNCL     MOUNT        NO-SMC       MUSASS       JOBFROM
ACC-SRCE     TSORBA       SECURITY     LEADER       CONSULT      AUDIT
ACCOUNT      SCPLIST      LOGSHIFT     READALL      RULEVLD      SHIFT
ZONE         PROJECT
?
```

Revised: October 9, 1984

ACF SHOW COMMANDS

```
 show programs
-- RESTRICTED PROGRAM NAMES --
IEHD**** DRWD**** ICKDSF**

-- MAINTENANCE LOGONIDS/PROGRAMS/LIBRARIES --
MAINTLID $ARCHIVE SYS1.LINKLIB
MAINTLID $ASMBMON SYS1.LINKLIB
MAINTLID $BACKUP  SYS1.LINKLIB
MAINTLID $DASDMNT SYS1.LINKLIB
MAINTLID $DEFRAG  SYS1.LINKLIB
MAINTLID $MIGRATE SYS1.LINKLIB

-- TAPE BYPASS LABEL PROGRAMS/LIBRARIES --
COPYEDIT SYS1.LINKLIB

-- LOGGED PROGRAMS --
AMASPZAP
IMASPZAP
INCORZAP
?
```

```
 show ddsn
-- ACF2 DYNAMIC DATASET NAMES SPECIFIED --
DDSN PRIMARY DEFAULTED AT STARTUP.  DSNS IN USE ARE:
          RULES=SYS1.ACF.RULES
          LOGONIDS=SYS1.ACF.LOGONIDS
          INFOSTG=SYS1.ACF.INFOSTG
          BACKRULE=SYS1.ACF.BKRULES
          BACKLID=SYS1.ACF.BKLIDS
          BACKINFO=SYS1.ACF.BKINFO

DDSN LISTS DEFINED IN FDR ARE:
PRIMARY   RULES=SYS1.ACF.RULES
          LOGONIDS=SYS1.ACF.LOGONIDS
          INFOSTG=SYS1.ACF.INFOSTG
          BACKRULE=SYS1.ACF.BKRULES
          BACKLID=SYS1.ACF.BKLIDS
          BACKINFO=SYS1.ACF.BKINFO

ALT       RULES=SYS1.ACF.ALTRULES
          LOGONIDS=SYS1.ACF.ALTLIDS
          INFOSTG=SYS1.ACF.ALTINFO
          BACKRULE=SYS1.ACF.ABKRULES
          BACKLID=SYS1.ACF.ABKLIDS
          BACKINFO=SYS1.ACF.ABKINFO

?
```


Revised: March 9, 1983

ACF SHOW COMMANDS

show linklst

-- DATASETS INCLUDED IN THE "LINK LIST" --

SYS1.LINKLIB

?end

READY

Revised: October 9, 1984

RUN

AUDIT

PROGRAMS

5/3/83

ACFRPTPP

SMF RECORD PRE-PROCESSOR

- SELECTS ACF2 RECORDS FROM SMF DATASETS
- REDUCES OVERHEAD OF RUNNING MULTIPLE REPORTS
- PROVIDES STATISTICAL INFORMATION ABOUT ACF2/SMF RECORDS
- PRODUCES A CROSS-REFERENCE REPORT OF ALL SMF INPUT

Revised: March 4, 1983

ACFRPTPP

```
ACF2 UTILITY LIBRARY - ACFRPTPP - SMF RECORD PRE-PROCESSOR  -  PAGE    1
DATE 10/05/84 (84.279) TIME 16.18 SDATE(83012),EDATE(83018)

                *-- RECORD SELECTION SUMMARY - BY DDNAME --*

  DDNAME   DESCRIPTION          COUNT  SELECTION

 SMFPR     SYSTEM ENTRY VIO      145  220-P,230-*
 SMFER     INFO-STG DB LOG        26  226-E,230-*
 SMFVR     RESOURCE LOG/VIO    1,552  227-V,230-*
 SMFJR     LOGONID DB LOG      1,790  222-L,230-*
 SMFAR     RULES DB LOG           24  223-R,230-*
 SMFCR     COMMAND TRACE          00  225-T,230-*
 SMFTR     RESTRICTED LIDS       134  224-J,230-*
 SMFDR1    DATASET LOGS        1,597  221-D,230-*
 SMFDR2    DATASET VIOS          115  221-D,230-*
 SMFDR3    DATASET TRACE       1,793  221-D,230-*
 SMFDR4    PGMNAME LOG/VIO        94  221-D,230-*
 SMFNR     ACF2 ENVIRONMENT       27  A,G,00,07,230-*

                                      * - INDICATES ACF2 COMBINED SMF NUMBER


                    --- TOTAL RECORDS PROCESSED ---

READ=233,591            SELECTED=7,203            WRITTEN=7,297
```

Revised: October 9, 1984

ACFRPTPP

ACF2 UTILITY LIBRARY - ACFRPTPP - SMF RECORD PRE-PROCESSOR - PAGE 2
DATE 10/05/84 (84.279) TIME 16.18 SDATE(83012),EDATE(83018)

-- SMF RECORDS INPUT SUMMARY - BY DDNAME --

DDNAME	<---------- STARTING ---------->				<---------- ENDING ---------->				COUNT
	<---PHYSICAL--->		<---LOGICAL---->		<---PHYSICAL--->		<---LOGICAL---->		
	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	
RECMAN0	01/04/83	06.46	01/04/83	06.46	01/17/83	09.33	01/17/83	09.46	103,220
RECMAN1	01/18/83	00.12	01/18/83	00.12	01/18/83	08.50	01/18/83	08.54	33,555
RECMAN2	01/17/83	09.26	01/17/83	09:26	01/17/83	21.34	01/17/83	21.39	96,916
RECMAN3	HAD NO RECORDS								

Revised: October 9, 1984

ACFRPTPP

ACF2 UTILITY LIBRARY - ACFRPTPP - SMF RECORD PRE-PROCESSOR - PAGE 3
DATE 10/05/84 (84.279) TIME 16.18 SDATE(83012),EDATE(83018)

-- SMF RECORDS INPUT SUMMARY - BY TYPE --

	--0--	--1--	--2--	--3--	--4--	--5--	--6--	--7--	--8--	--9--
0-	145	58	24	22	9596	5898	3980	0	145	219
10-	15	131	13	26	292	169	0	111	0	162
20-	10541	726	122	469	0	205	8064	0	0	0
30-	33277	57	3734	0	3757	3750	0	0	0	0
40-	103342	0	0	163	0	106	0	35	24	0
50-	0	0	0	0	0	33	0	167	24	0
60-	0	0	0	0	0	0	0	0	0	0
70-	0	0	0	0	0	0	0	0	0	0
80-	0	0	0	0	0	0	0	0	0	0
90-	288	0	0	0	0	0	0	0	0	0
100-	0	0	0	0	0	0	0	0	0	0
110-	0	0	0	0	0	0	0	0	0	0
120-	0	0	0	0	0	0	0	0	0	0
130-	0	0	0	0	0	0	0	0	0	0
140-	0	0	0	0	0	0	0	0	0	0
150-	0	0	0	0	0	0	0	0	0	0
160-	0	0	0	0	0	0	0	0	0	0
170-	0	0	0	0	0	0	0	0	0	0
180-	0	0	0	0	0	0	0	0	0	0
190-	0	0	0	0	0	0	0	0	0	0
200-	0	0	0	0	0	0	0	0	0	0
210-	0	0	0	0	0	0	0	0	0	0
220-	690	19188	9494	86	488	100	39	13615	0	0
230-	0	0	0	0	0	0	0	0	0	0
240-	0	0	0	0	0	0	0	0	0	0
250-	0	0	0	0	0	0				
	--0--	--1--	--2--	--3--	--4--	--5--	--6--	--7--	--8--	--9--

Revised: October 9, 1984

ACFRPTNV
ENVIRONMENT LOG

. Identifies changes to the operating system and ACF2 that have an effect on security.

. Shows

- ***Command Entered***
- ***Which operator console was used***

. Can Optionally Show

- ***Detail Information***

10/10/84

ACFRPTNV

ACF2 UTILITY LIBRARY - ACFRPTNV - ENVIRONMENT REPORT 1
DATE 10/04/84 (84.278) TIME 13.06 ENVIRONMENT RECORDS

ENVIRONMENT	EVENT	DATE	TIME	CID	CPU	ACF2 SYSID	ACF2 CMD RESULT
MVS	SYSTEM IPL	83.012 01/12	05:56		TLC1		
MVS	SYSTEM SHUTDOWN	83.012 01/12	05:56		TLC1		
MVS	SYSTEM IPL	83.012 01/12	23:37		TLC1		
MVS	SYSTEM SHUTDOWN	83.012 01/12	23:37		TLC1		
MVS	SYSTEM IPL	83.013 01/13	12:10		TLC1		
MVS	SYSTEM SHUTDOWN	83.013 01/13	12:10		TLC1		
MVS	SYSTEM IPL	83.013 01/13	18:44		TLC1		
MVS	SYSTEM SHUTDOWN	83.013 01/13	18:44		TLC1		
MVS	SYSTEM IPL	83.013 01/13	18:57		TLC1		
MVS	SYSTEM SHUTDOWN	83.013 01/13	18:57		TLC1		
MVS	SYSTEM IPL	83.013 01/13	19:05		TLC1		
MVS	SYSTEM SHUTDOWN	83.013 01/13	19:05		TLC1		
MVS	SYSTEM IPL	83.013 01/13	19:19		TLC1		
MVS	SYSTEM SHUTDOWN	83.013 01/13	19:19		TLC1		
MVS	SYSTEM IPL	83.013 01/13	19:56		TLC1		
MVS	SYSTEM SHUTDOWN	83.013 01/13	19:56		TLC1		
MVS	SYSTEM IPL	83.013 01/13	21:10		TLC1		
MVS	SYSTEM SHUTDOWN	83.013 01/13	21:10		TLC1		
MVS	SYSTEM IPL	83.014 01/14	05:55		TLC1		
MVS	SYSTEM SHUTDOWN	83.014 01/14	05:55		TLC1		
MVS	SYSTEM IPL	83.016 01/16	07:40		TLC1		
MVS	SYSTEM SHUTDOWN	83.016 01/16	07:40		TLC1		
MVS	SYSTEM IPL	83.016 01/16	08:39		TLC1		
MVS	SYSTEM SHUTDOWN	83.016 01/16	08:39		TLC1		
MVS	SYSTEM IPL	83.016 01/16	09:57		TLC1		
MVS	SYSTEM SHUTDOWN	83.016 01/16	09:57		TLC1		
MVS	SYSTEM IPL	83.016 01/16	15:03		TLC1		
MVS	SYSTEM SHUTDOWN	83.016 01/16	15:03		TLC1		
MVS	SYSTEM IPL	83.016 01/16	15:12		TLC1		
MVS	SYSTEM SHUTDOWN	83.016 01/16	15:12		TLC1		
MVS	SYSTEM IPL	83.016 01/16	16:08		TLC1		
MVS	SYSTEM SHUTDOWN	83.016 01/16	16:08		TLC1		
MVS	SYSTEM IPL	83.016 01/16	20:33		TLC1		
MVS	SYSTEM SHUTDOWN	83.016 01/16	20:33		TLC1		
MVS	SYSTEM IPL	83.018 01/17	00:05		TLC1		
MVS	SYSTEM SHUTDOWN	83.018 01/17	00:05		TLC1		
MVS	SYSTEM IPL	83.018 01/17	02:17		TLC1		
MVS	SYSTEM SHUTDOWN	83.018 01/17	02:17		TLC1		
MVS	SYSTEM IPL	83.018 01/17	05:28		TLC1		
MVS	SYSTEM SHUTDOWN	83.018 01/17	05:28		TLC1		
MVS	SYSTEM IPL	83.018 01/17	09:12		TLC1		
MVS	SYSTEM SHUTDOWN	83.018 01/17	09:12		TLC1		

ACFRPTNV

ACF2 UTILITY LIBRARY - ACFRPTNV - ENVIRONMENT REPORT 2
DATE 10/04/84 (84.278) TIME 13.06 ENVIRONMENT RECORDS

ENVIRONMENT EVENT	DATE	TIME	CID	CPU	ACF2 SYSID	ACF2 CMD RESULT
MVS SYSTEM IPL	83.018 01/17	09:33		TLC1		
MVS SYSTEM SHUTDOWN	83.018 01/17	09:33		TLC1		
MVS SYSTEM IPL	83.016 01/17	15:12		TLC1		
MVS SYSTEM SHUTDOWN	83.016 01/17	15:12		TLC1		
MVS SYSTEM IPL	83.016 01/17	16:08		TLC1		
MVS SYSTEM SHUTDOWN	83.016 01/17	16:08		TLC1		
MVS SYSTEM IPL	83.016 01/17	21:34		TLC1		
MVS SYSTEM SHUTDOWN	83.016 01/17	21:34		TLC1		
MVS SYSTEM IPL	83.018 01/18	00:12		TLC1		
MVS SYSTEM SHUTDOWN	83.018 01/18	00:12		TLC1		
MVS SYSTEM IPL	83.018 01/18	01:27		TLC1		
MVS SYSTEM SHUTDOWN	83.018 01/18	01:27		TLC1		
MVS SYSTEM IPL	83.018 01/18	06:08		TLC1		
MVS SYSTEM SHUTDOWN	83.018 01/18	06:08		TLC1		
MVS SYSTEM IPL	83.018 01/18	07:56		TLC1		
MVS SYSTEM SHUTDOWN	83.018 01/18	07:56		TLC1		
MVS SYSTEM IPL	83.018 01/18	08:54		TLC1		
MVS SYSTEM SHUTDOWN	83.018 01/18	08:54		TLC1		

ACFRPTLL

LOGONID MODIFICATION LOG

- USES ACF2 SMF RECORDS ISSUED FOR RECOVERY PURPOSES TO PROVIDE AN UPDATE ACTIVITY REPORT FOR ACF2'S LOGONID DATABASE.
- UPDATES OCCUR FOR TWO REASONS:
  - MAINTENANCE OF LID DATABASE
  - JESX AND LOGON VALIDATION

Revised: July 30, 1983

ACFRPTLL

```
ACF2 UTILITY LIBRARY - ACFRPTLL - LOGONID MODIFICATION LOG - PAGE   1
DATE 10/05/84 (84.279) TIME 16.20 MASK(TLC-)
     DATE    TIME  LOGONID  JOBNAME  CHANGER  CHANGE   CPU  LAB  USING

83.012 01/12 09.03 TLC003   ACFUSER  ACFUSER  INSERT   TLC1
83.012 01/12 09.06 TLC006   TLC0031  TLC003   INSERT   TLC1
83.012 01/12 09.08 TLC001   TLC0061  TLC006   INSERT   TLC1
83.012 01/12 09.08 TLC002   TLC0061  TLC006   INSERT   TLC1
83.012 01/12 09.08 TLC004   TLC0061  TLC006   INSERT   TLC1
83.012 01/12 09.08 TLC005   TLC0061  TLC006   INSERT   TLC1
83.012 01/12 09.08 TLC007   TLC0061  TLC006   INSERT   TLC1
83.012 01/12 09.08 TLC008   TLC0061  TLC006   INSERT   TLC1
83.012 01/12 09.08 TLC009   TLC0061  TLC006   INSERT   TLC1
83.012 01/12 09.45 TLC005   TLC0031  TLC003   CHANGE   TLC1
83.012 01/12 09.45 TLC005   TLC0031  TLC003   CHANGE   TLC1
83.012 01/12 09.45 TLC005   TLC0031  TLC003   CHANGE   TLC1
83.012 01/12 09.54 TLC005   TLC0031  TLC003   CHANGE   TLC1
83.012 01/12 09.54 TLC005   TLC0031  TLC003   CHANGE   TLC1
83.012 01/12 09.54 TLC008   TLC0031  TLC003   CHANGE   TLC1
83.012 01/12 09.54 TLC009   TLC0031  TLC003   CHANGE   TLC1
83.012 01/12 09.59 TLC008   TLC0031  TLC003   CHANGE   TLC1
```

Revised: October 9, 1984

ACFRPTRL

RULE-ID MODIFICATION LOG

- USES ACF2 SMF RECORDS ISSUED FOR RECOVERY PURPOSES TO PROVIDE AN UPDATE ACTIVITY REPORT FOR ACF2'S ACCESS RULE DATABASE.

- PRODUCES ONE RECORD EACH TIME SOMEONE CHANGES THE ACCESS RULE DATABASE.

Revised: July 30, 1983

ACFRPTRL

```
ACF2 UTILITY LIBRARY - ACFRPTRL - RULE MODIFICATION LOG - PAGE    1
DATE 01/18/83 (83.018) TIME 08.57 MASK(PAYROLL)

     DATE     TIME  RULE-ID  JOBNAME  CHANGER  CHANGE    CPU

83.012 01/12 10.02 PAYROLL  TLC0031  TLC003   INSERT    SKK1
83.014 01/14 10.13 PAYROLL  TLC003   TLC003   REPLACE   SKK1
83.017 01/17 09.50 PAYROLL  TLC003   TLC003   REPLACE   SKK1
```


Revised: 7/21/83

ACFRPTEL

INFORMATION STORAGE UPDATE LOG

- USES ACF2 SMF RECORDS ISSUED FOR RECOVERY PURPOSES TO PROVIDE AN UPDATE ACTIVITY REPORT FOR ACF2'S INFORMATION STORAGE DATABASE.

- PRODUCES ONE RECORD EACH TIME SOMEONE CHANGES THE INFORMATION STORAGE DATABASE.

Revised: July 30, 1983

ACFRPTEL

```
ACF2 UTILITY LIBRARY - ACFRPTEL - INFORMATION STORAGE UPDATE LOG - PAGE    1
DATE 01/18/83 (83.018) TIME 08.56 MASK(TLC-)

    DATE      TIME  JNAME    LID       MODULE    FUNCTION CPU    TYP NAME

83.012 01/12 09.45 TLC0031  TLC003    ACF60CMD  INSERT   SKK1   S-SCP-AUDITOR
```


Revised: March 9, 1983

ACFRPTPW

INVALID PASSWORD/AUTHORITY LOG

- IDENTIFIES ANY TIME A PERSON ATTEMPTS TO ACCESS THE SYSTEM AND THAT ACCESS WAS DENIED BY ACF2.

- ALSO IDENTIFIES IF A USER HAS LOGSHIFT PRIVILEGE AND ACCESSES THE SYSTEM OUTSIDE OF SHIFT/TIME CONTROLS.

- PROVIDES A REASON CODE TO INDICATE WHY THE ATTEMPT WAS DENIED OR LOGGED.

- SECURITY OFFICERS SHOULD MONITOR THIS REPORT FOR:

  - EXCESSIVE INVALID PASSWORD VIOLATIONS

  - INVALID PATH SUBMISSION OF RESTRICTED LOGONIDS

  - OTHER SUSPICIOUS ACTIVITIES

Revised: March 4, 1983

ACFRPTPW

```
ACF2 UTILITY LIBRARY - ACFRPTPW - INVALID PASSWORD/AUTHORITY LOG - PAGE   1
DATE 06/02/83 (83.153) TIME 08.56 MASK(TLC-)

    DATE     TIME  LID      JNAME     SUBMIT'R SOURCE    PROGRAM    RC  L  CPU  LAB

83.014 01/14 07.59 TLCC002  TLCC002   P-LOGON  LV42B                4      SKK1
83.014 01/14 07.59 TLC002   TLC002    P-LOGON  LV42B               12      SKK1
83.012 01/12 13.00 TLC008   TLC008    P-LOGON  LV436                6      SKK1
83.013 01/13 10.49 TLC008   PAYINIT2   USRISO  LV436     IKJEFF04   8      SKK1
```

NOTES:

P - Indicates job submitted from started task

(Followed by STC Procedure Name).

RC Indicates Reason Code, e.g.

4 Logonid not found

6 Password is not allowed

8 Unauthorized input source

12 Password not matched

Revised: 7/21/83

ACFRPTJL

RESTRICTED LOGONID JOB LOG

- PRODUCES A REPORT SHOWING ANY TIME A LOGONID WITH RESTRICT IS USED.

- INDICATES THE PATH OF SUBMISSION FOR JOBS USING A RESTRICTED LOGONID.

- GENERALLY THESE LOGONIDS ARE SUBMITTED VIA AN APF AUTHORIZED PROGRAM.

ACFRPTJL

```
ACF2 UTILITY LIBRARY - ACFRPTJL - RESTRICTED LOGONID JOB LOG - PAGE    1
DATE 10/05/84 (84.279) TIME 16.20 MASK(TLC-)

    DATE      TIME  LID      JNAME      SUBMIT'R SOURCE    PROGRAM  CPU  LAB

83.013 01/13 09.46 TLC008   PAYINIT1 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 10.24 TLC008   PAYINIT4 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 10.25 TLC008   PAYINIT3 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.36 TLC008   PAYINIT1 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.37 TLC008   PAYINIT2 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.38 TLC008   PAYINIT3 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.39 TLC008   PAYINIT4 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.57 TLC008   PAYINIT1 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.58 TLC008   PAYINIT2 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.58 TLC008   PAYINIT3 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.013 01/13 11.59 TLC008   PAYINIT4 S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.014 01/14 08.35 TLC008   PAYWK1   S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.014 01/14 08.35 TLC008   PAYWK2   S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.014 01/14 08.35 TLC008   PAYWK3   S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.014 01/14 09.47 TLC008   PAYWK4   S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.014 01/14 10.09 TLC008   PAYWK4   S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.014 01/14 10.14 TLC008   PAYWK4   S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.017 01/17 09.37 TLC008   PAYBKUP  S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.017 01/17 09.45 TLC008   PAYRESTR S-ACFSTCID STCINRDR *JOBCOPY  TLC1
83.017 01/17 09.51 TLC008   PAYRESTR S-ACFSTCID STCINRDR *JOBCOPY  TLC1
```

Revised: October 9, 1984

ACFRPTDS

DATASET ACCESS JOURNAL

- ACFRPTDS PROVIDES:
  - LOGGING OF ALL INVALID DATASET AND PROGRAM ACCESS
  - LOGGING WHEN REQUESTED WITHIN THE RULE
  - LOGGING WHEN TRACING A USER

- FOUR TYPES OF RECORDS:
  - DATASET LOGGINGS
  - DATASET ACCESS VIOLATIONS
  - DATASET ACCESS TRACE REQUESTS
  - PROGRAM LOGGINGS AND VIOLATIONS

- ACCESS IS NOT JOURNALED IF:
  - USER IS OWNER OF DATA
  - RULE ALLOWS ACCESS WITHOUT LOGGING

ACFRPTDS

```
logonid  jdate  gdate time  record            inst
jobname  VOL=dsnvol DDN=ddname   DSN=dataset
stepname VOL=libvol PGM=pgmname  LIB=library
jobid    major minor   rmrc      NAM=name
cpuid    SRC=source               UID=uid
```

record — The type of security record being formatted.

- VOLUME — Indicates the access was validated at a volume level. The dataset name in this case may be @volser.VOLUME as defined by ACF2 volume protection.
- DATASET — The access is to a dataset.
- VIOLATION — This journal record was issued because the access violated ACF2 access controls.
- LOGGING — The access as defined by this journal record was allowed either because the access rule requested logging or the access was allowed because the user was a security officer or non-cancellable.

inst — This field indicates that the logging was created because of an installation exit or installation specification.

- VIO-EXIT — The installation violation exit caused this access to be journalled.
- SEC-OFF — This access was allowed because the user was a security officer.
- NON-CANC — This access was allowed because the Logonid was marked with the NON-CNCL attribute.

major — This field describes the system/ACF2 component through which access is being attempted.

minor — The type of access being performed. The major and minor fields combine to detail the exact nature of the dataset access environment.

rmrc — The return code from the ACF2 access rule record manager and interpreter.

- ACCESS — An access rule was found which matched the environment and the rule specified that access be allowed (or allowed but logged).
- NOACCESS — An access rule was found to match the environment but the rule disallowed access.
- NORULE — No access rule could be found in the rule set to match the environment.
- NORECORD — No access rule set could be found to match the dataset high level index or the rule set specified by the installation exit could not be found.

ACFRPTDS

```
ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS JOURNAL          - PAGE    1
DATE 01/18/83 (83.018) TIME 08.57 DATASET LOGGING RECORDS

TLC008    83.013 01/13 09.46 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1814 ALLOC          ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 09.46 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1814 CATLG  DEFINE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 11.36 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1881 DELETE         ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 11.36 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1881 ALLOC          ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 11.36 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1881 CATLG  DEFINE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 DELETE         ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 CATLG  DELETE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 ALLOC          ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.BIWEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 CATLG  DEFINE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008
```


Revised: March 9, 1983

ACFRPTDS

```
ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS JOURNAL          - PAGE    2
DATE 01/18/83 (83.018) TIME 08.57 DATASET LOGGING RECORDS

TLC008   83.013 01/13 09.46 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1814 ALLOC          ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 09.46 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1814 CATLG  DEFINE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 11.36 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1881 DELETE         ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 11.36 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1881 ALLOC          ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 11.36 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1881 CATLG  DEFINE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 DELETE         ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 CATLG  DELETE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 ALLOC          ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008

TLC008   83.013 01/13 11.57 DATASET  LOGGING
PAYINIT1 VOL=WORK01 DDN=          DSN=PAYROLL.BENEFITS.WEEKLY
BENEFITS VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1900 CATLG  DEFINE  ACCESS    NAM=PAYROLL JCL
SKK1     SRC=STCINRDR             UID=TCHPJTLC008
```

ACFRPTDS


```
TLC008   83.013 01/13 10.25 DATASET  LOGGING
PAYINIT3 VOL=WORK01 DDN=          DSN=PAYROLL.DEPT.TOTALS
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1836 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 10.25 DATASET  LOGGING
PAYINIT3 VOL=WORK01 DDN=          DSN=PAYROLL.DEPT.TOTALS
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1836 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.38 DATASET  LOGGING
PAYINIT3 VOL=WORK01 DDN=          DSN=PAYROLL.DEPT.TOTALS
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1886 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.59 DATASET  LOGGING
PAYINIT3 VOL=WORK01 DDN=          DSN=PAYROLL.DEPT.TOTALS
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1904 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 12.00 DATASET  LOGGING
PAYINIT3 VOL=WORK01 DDN=          DSN=PAYROLL.DEPT.TOTALS
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1904 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 12.01 DATASET  LOGGING
PAYINIT3 VOL=WORK01 DDN=          DSN=PAYROLL.DEPT.TOTALS
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1904 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.37 DATASET  LOGGING
PAYINIT2 VOL=WORK01 DDN=          DSN=PAYROLL.HOURS.WEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1883 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.37 DATASET  LOGGING
PAYINIT2 VOL=WORK01 DDN=          DSN=PAYROLL.HOURS.WEEKLY
HOURS    VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1883 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.37 DATASET  LOGGING
PAYINIT2 VOL=WORK01 DDN=          DSN=PAYROLL.HOURS.WEEKLY
HOURS    VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1883 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008
```

ACFRPTDS

```
ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS JOURNAL          - PAGE    4
DATE 01/18/83 (83.018) TIME 08.57 DATASET LOGGING RECORDS

TLC008   83.013 01/13 11.58 DATASET  LOGGING
PAYINIT2 VOL=WORK01 DDN=          DSN=PAYROLL.HOURS.WEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1902 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.58 DATASET  LOGGING
PAYINIT2 VOL=WORK01 DDN=          DSN=PAYROLL.HOURS.WEEKLY
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1902 CATLG  DELETE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.58 DATASET  LOGGING
PAYINIT2 VOL=WORK01 DDN=          DSN=PAYROLL.HOURS.WEEKLY
HOURS    VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1902 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.58 DATASET  LOGGING
PAYINIT2 VOL=WORK01 DDN=          DSN=PAYROLL.HOURS.WEEKLY
HOURS    VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1902 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 10.24 DATASET  LOGGING
PAYINIT4 VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1832 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 10.24 DATASET  LOGGING
PAYINIT4 VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1832 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.39 DATASET  LOGGING
PAYINIT4 VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1888 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.59 DATASET  LOGGING
PAYINIT4 VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1907 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.013 01/13 11.59 DATASET  LOGGING
PAYINIT4 VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1907 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008
```

ACFRPTDS

```
ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS JOURNAL          - PAGE    5
DATE 01/18/83 (83.018) TIME 08.57 DATASET LOGGING RECORDS

TLC008   83.013 01/13 12.01 DATASET  LOGGING
PAYINIT4 VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1907 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.46 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2710 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.46 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2710 CATLG  DELETE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.46 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2710 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.46 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2710 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.51 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2718 DELETE         ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.51 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
SCRATCH  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2718 CATLG  DELETE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.51 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2718 ALLOC          ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008

TLC008   83.017 01/17 09.52 DATASET  LOGGING
PAYRESTR VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS  VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2718 CATLG  DEFINE  ACCESS   NAM=PAYROLL JCL
SKK1     SRC=STCINRDR            UID=TCHPJTLC008
```

ACFRPTDS

```
ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS JOURNAL          - PAGE    6
DATE 01/18/83 (83.018) TIME 08.57 DATASET LOGGING RECORDS

TLC008    83.017 01/17 09.37 DATASET  LOGGING
PAYBKUP   VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.BACKUP
MASTER    VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2698  ALLOC          ACCESS    NAM=PAYROLL JCL
SKK1      SRC=STCINRDR             UID=TCHPJTLC008

TLC008    83.017 01/17 09.37 DATASET  LOGGING
PAYBKUP   VOL=WORK01 DDN=          DSN=PAYROLL.MASTER.BACKUP
MASTER    VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 2698  CATLG  DEFINE  ACCESS    NAM=PAYROLL JCL
SKK1      SRC=STCINRDR             UID=TCHPJTLC008

TLC004    83.012 01/12 11.36 DATASET  LOGGING
TLCLINK1  VOL=WORK01 DDN=          DSN=PAYROLL.PROD.LOADLIB
STEP1     VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1465  ALLOC          ACCESS    NAM=OSCAR
SKK1      SRC=LV420                UID=TCFQATLC004

TLC004    83.012 01/12 11.36 DATASET  LOGGING
TLCLINK1  VOL=WORK01 DDN=          DSN=PAYROLL.PROD.LOADLIB
STEP1     VOL=       PGM=IEFSD060 LIB=SYS1.LINKLIB
JOB 1465  CATLG  DEFINE  ACCESS    NAM=OSCAR
SKK1      SRC=LV420                UID=TCFQATLC004

TLC005    83.014 01/14 08.43 DATASET  LOGGING   NON-CANC
TLC005    VOL=WORK01 DDN=ISP08431 DSN=PAYROLL.PROD.LOADLIB
$SKKISPF  VOL=       PGM=ISRUDA   LIB=SYS1.LINKLIB
TSU 2308  DA-OPN INPUT   NORULE   NAM=MARY
SKK1      SRC=LV437                UID=TCFSPTLC005

TLC005    83.014 01/14 08.43 DATASET  LOGGING   NON-CANC
TLC005    VOL=WORK01 DDN=ISP08431 DSN=PAYROLL.PROD.LOADLIB
$SKKISPF  VOL=       PGM=ISRUDA   LIB=SYS1.LINKLIB
TSU 2308  DA-OPN OUT/IN  NORULE   NAM=MARY
SKK1      SRC=LV437                UID=TCFSPTLC005

TLC005    83.014 01/14 08.43 DATASET  LOGGING   NON-CANC
TLC005    VOL=WORK01 DDN=ISP08431 DSN=PAYROLL.PROD.LOADLIB
$SKKISPF  VOL=       PGM=ISRUDA   LIB=SYS1.LINKLIB
TSU 2308  DA-OPN OUTPUT  NORULE   NAM=MARY
SKK1      SRC=LV437                UID=TCFSPTLC005
```

ACFRPTDS

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ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS CROSS REFERENCE - PAGE    1
DATE 01/18/83 (83.018) TIME 08.57 DATASET LOGGING RECORDS

INDEX     COUNT  LID       COUNT  LID       COUNT
PAYROLL      52
--------------   TLC004        2  TLC005        3  TLC008       47
```

ACFRPTDS

```
ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS JOURNAL          - PAGE    1
DATE 01/18/83 (83.018) TIME 08.57 DATASET VIOLATION RECORDS

TLC008    83.014 01/14 10.09 DATASET  VIOLATION
PAYWK4    VOL=WORK01 DDN=SYSUT1    DSN=PAYROLL.CONTROL.DATA
EDIT      VOL=WORK01 PGM=PAY115    LIB=PAYROLL.PROD.LOADLIB
JOB 2345 DA-OPN INPUT   NORULE     NAM=PAYROLL JCL
SKK1      SRC=STCINRDR             UID=TCHPJTLC008

TLC002    83.014 01/14 08.11 DATASET  VIOLATION
TLC0021   VOL=WORK01 DDN=SYSUT1    DSN=PAYROLL.DEPT.TOTALS
CREATE2   VOL=       PGM=IEBGENER LIB=UNKNOWN.LIBRARY    -0
JOB 2291 DA-OPN INPUT   NORULE     NAM=STEVE
SKK1      SRC=LV42B                UID=TCFPATLC002

TLC002    83.014 01/14 08.11 DATASET  VIOLATION
TLC0021   VOL=WORK01 DDN=SYSUT1    DSN=PAYROLL.MASTER.ACTIVE
CREATE1   VOL=       PGM=IEBGENER LIB=SYS1.LINKLIB
JOB 2291 DA-OPN INPUT   NORULE     NAM=STEVE
SKK1      SRC=LV42B                UID=TCFPATLC002

TLC008    83.017 01/17 09.46 DATASET  VIOLATION
PAYRESTR  VOL=WORK01 DDN=SYSUT2    DSN=PAYROLL.MASTER.ACTIVE
DEPTOTS   VOL=WORK01 PGM=PAY021    LIB=PAYROLL.PROD.LOADLIB
JOB 2710 DA-OPN OUTPUT  NOACCESS   NAM=PAYROLL JCL
SKK1      SRC=STCINRDR             UID=TCHPJTLC008

TLC001    83.014 01/14 10.05 DATASET  VIOLATION
USRTMR1   VOL=WORK01 DDN=STEPLIB   DSN=PAYROLL.PROD.LOADLIB
DEPTOTS   VOL=WORK01 PGM=PAY031    LIB=PAYROLL.PROD.LOADLIB
JOB 2342 DA-OPN EXECUTE NORULE     NAM=VIOLET
SKK1      SRC=LV420                UID=TCFOSTLC001
```


Revised: March 9, 1983

ACFRPTDS

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ACF2 UTILITY LIBRARY - ACFRPTDS DATASET ACCESS CROSS REFERENCE - PAGE    1
DATE 01/18/83 (83.018) TIME 08.57 DATASET VIOLATION RECORDS

INDEX     COUNT  LID       COUNT  LID       COUNT
PAYROLL       5
--------------   TLC001        1  TLC002        2  TLC008        2
```

ACFRPTRV

GENERALIZED RESOURCE LOG

- JOURNALS INFORMATION BASED UPON RESULTS OF RESOURCE VALIDATION REQUESTS.

- REPORT DESCRIBES:
  - TYPE OF RESOURCE REQUESTED
  - USER REQUESTING ACCESS
  - FINAL DISPOSITION OF ACCESS

- THREE SEPARATE TYPES OF RESOURCE EVENTS:
  - LOGGINGS
  - VIOLATIONS
  - TRACE REQUESTS

Revised: March 4, 1983

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE    1
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                              LOOKUP KEY
UID                          SOURCE    CPU  MODULE    DISP     DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME      LID       NAME                     PRE RMC INT PST FIN

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCFISTLC003                  LV436     TLC1             RULE        -      DIRECTRY
83.012 01/12 09.45 TLC003    TLC003    PEARL                        0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCFISTLC003                  LV436     TLC1             RULE        -      DIRECTRY
83.012 01/12 10.02 TLC003    TLC003    PEARL                        0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCFQATLC004                  LV420     TLC1             RULE        -      DIRECTRY
83.012 01/12 11.36 TLCLINK1  TLC004    OSCAR                        0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCHPJTLC008                  STCINRDR  TLC1             RULE        -      DIRECTRY
83.013 01/13 09.46 PAYINIT1  TLC008    PAYROLL JCL                  0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCHPJTLC008                  STCINRDR  TLC1             RULE        -      DIRECTRY
83.013 01/13 09.46 PAYINIT1  TLC008    PAYROLL JCL                  0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCHPJTLC008                  STCINRDR  TLC1             RULE        -      DIRECTRY
83.013 01/13 10.24 PAYINIT4  TLC008    PAYROLL JCL                  0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCHPJTLC008                  STCINRDR  TLC1             RULE        -      DIRECTRY
83.013 01/13 10.25 PAYINIT3  TLC008    PAYROLL JCL                  0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCHPJTLC008                  STCINRDR  TLC1             RULE        -      DIRECTRY
83.013 01/13 11.36 PAYINIT1  TLC008    PAYROLL JCL                  0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCHPJTLC008                  STCINRDR  TLC1             RULE        -      DIRECTRY
83.013 01/13 11.36 PAYINIT1  TLC008    PAYROLL JCL                  0   0   4   0   4

R-DSD-WORK01                                                LOG  R-DSD-WORK01
TCHPJTLC008                  STCINRDR  TLC1             RULE        -      DIRECTRY
83.013 01/13 11.37 PAYINIT2  TLC008    PAYROLL JCL                  0   0   4   0   4
```

Revised: October 9, 1984

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   2
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                          LOOKUP KEY
UID                        SOURCE   CPU  MODULE   DISP     DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME     LID      NAME                   PRE RMC INT PST FIN

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.013 01/13 11.57 PAYINIT1 TLC008   PAYROLL JCL              0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.013 01/13 11.57 PAYINIT1 TLC008   PAYROLL JCL              0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.013 01/13 11.58 PAYINIT2 TLC008   PAYROLL JCL              0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.013 01/13 11.59 PAYINIT4 TLC008   PAYROLL JCL              0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.013 01/13 12.00 PAYINIT3 TLC008   PAYROLL JCL              0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCFOSTLC001              LV420    TLC1              RULE        -     DIRECTRY
83.014 01/14 10.05 USRTMR1  TLC001   VIOLET                   0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCFOSTLC001              LV420    TLC1              RULE        -     DIRECTRY
83.014 01/14 10.07 USRTMR1  TLC001   VIOLET                   0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.017 01/17 09.37 PAYBKUP  TLC008   PAYROLL JCL              0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.017 01/17 09.46 PAYRESTR TLC008   PAYROLL JCL              0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCHPJTLC008              STCINRDR TLC1              RULE        -     DIRECTRY
83.017 01/17 09.51 PAYRESTR TLC008   PAYROLL JCL              0   0   4   0   4
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Revised: October 9, 1984

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE    3
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                         LOOKUP KLY
UID                         SOURCE   CPU  MODULE    DISP      DSP-MOD  KEY-MOD  SERV
    DATE      TIME   JNAME    LID       NAME                   PRE RMC  INT PST FIN

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.00 TLC009    TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.00 TLC009    TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK03                                         LOG   R-DSD-WORK03
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.01 TLC009    TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.01 TLC009    TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.08 TLC0091   TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.08 TLC0091   TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.08 TLC0091   TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.08 TLC0091   TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.08 TLC0091   TLC009    STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1          RULE        -      DIRECTRY
83.017 01/17  12.12 TLC0091   TLC009    STAFF AUDITOR           0   0   4   0   4
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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE    4
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                          LOOKUP KEY
UID                        SOURCE   CPU  MODULE     DISP       DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME     LID       NAME                     PRE RMC INT PST FIN

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.12 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.12 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.12 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.12 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.09 TLC009   TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.19 TLC009   TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.23 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.23 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.23 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE        -       DIRECTRY
83.017 01/17  12.23 TLC0091  TLC009    STAFF AUDITOR            0   0   4   0   4
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Revised: October 9, 1984

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   5
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                          LOOKUP KEY
UID                        SOURCE   CPU  MODULE     DISP       DSP-MOD  KEY-MOD  SERV
    DATE      TIME  JNAME     LID        NAME                   PRE RMC INT PST FIN

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.23 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.30 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.37 TLC009   TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.39 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.39 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.39 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.39 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.39 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                            LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1               RULE        -     DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4
```

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   6
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                          LOOKUP KEY
UID                        SOURCE   CPU  MODULE      DISP     DSP-MOD  KEY-MOD  SERV
    DATE      TIME   JNAME    LID       NAME                   PRE RMC INT PST FIN

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4

R-DSD-WORK01                                          LOG  R-DSD-WORK01
TCASATLC009                LV420    TLC1             RULE       -      DIRECTRY
83.017 01/17  12.45 TLC0091  TLC009   STAFF AUDITOR             0   0   4   0   4
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Revised: October 9, 1984

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE    7
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                          LOOKUP KEY
UID                         SOURCE   CPU  MODULE    DISP       DSP-MOD  KEY-MOD  SERV
    DATE      TIME  JNAME     LID       NAME                    PRE RMC INT PST FIN

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.46 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.47 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1           RULE         -      DIRECTRY
83.017 01/17 12.47 TLC0091  TLC009   STAFF AUDITOR                 0   0   4   0   4
```

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   8
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                          LOOKUP KEY
UID                         SOURCE   CPU  MODULE    DISP      DSP-MOD  KEY-MOD  SERV
    DATE      TIME  JNAME    LID       NAME                    PRE RMC INT PST FIN

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.47 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.47 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.47 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.47 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.47 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.48 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.48 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.48 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.48 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                         LOG   R-DSD-WORK01
TCASATLC009                 LV420    TLC1            RULE       -      DIRECTRY
83.017 01/17 12.48 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4
```

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE    9
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                           LOOKUP KEY
UID                        SOURCE   CPU  MODULE   DISP          DSP-MOD  KEY-MOD  SERV
    DATE      TIME  JNAME    LID       NAME                      PRE RMC  INT PST FIN

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.017 01/17 12.49 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK02                                        LOG    R-DSD-WORK02
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.017 01/17 12.49 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.017 01/17 12.52 TLC009   TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.018 01/18 08.36 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.018 01/18 08.36 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.018 01/18 08.36 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.018 01/18 08.36 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.018 01/18 08.36 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.018 01/18 08.42 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1            RULE           -       DIRECTRY
83.018 01/18 08.42 TLC0091  TLC009   STAFF AUDITOR                  0   0    4   0   4
```

ACFRPTRV

```
ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   10
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                      LOOKUP KEY
UID                     SOURCE   CPU  MODULE      DISP    DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME    LID       NAME                  PRE RMC INT PST FIN

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.42 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.42 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.42 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.45 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.45 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.45 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.45 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.45 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.49 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                        LOG  R-DSD-WORK01
TCASATLC009             LV420    TLC1              RULE      -      DIRECTRY
83.018 01/18 08.49 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4
```

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   11
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                            LOOKUP KEY
UID                         SOURCE   CPU  MODULE     DISP        DSP-MOD   KEY-MOD  SERV
    DATE      TIME  JNAME      LID       NAME                     PRE RMC  INT PST  FIN

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.49 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.49 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.49 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.49 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4

R-DSD-WORK01                                          LOG    R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE       -        DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR                0   0    4   0    4
```

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   12
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                       LOOKUP KEY
UID                     SOURCE   CPU  MODULE    DISP       DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME   LID       NAME                      PRE RMC INT PST FIN

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.54 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4

R-DSD-WORK01                                      LOG   R-DSD-WORK01
TCASATLC009             LV420    TLC1             RULE       -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR           0   0   4   0   4
```

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE    13
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                          LOOKUP KEY
UID                         SOURCE    CPU  MODULE    DISP      DSP-MOD  KEY-MOD  SERV
    DATE      TIME   JNAME    LID        NAME                   PRE RMC INT PST FIN

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.55 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4

R-DSD-WORK01                                          LOG   R-DSD-WORK01
TCASATLC009                 LV420     TLC1            RULE        -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR               0   0   4   0   4
```

Revised: October 9, 1984

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE    14
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                           LOOKUP KEY
UID                        SOURCE   CPU  MODULE   DISP         DSP-MOD  KEY-MOD  SERV
    DATE        TIME  JNAME     LID      NAME                    PRE RMC INT PST FIN

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1           RULE         -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1           RULE         -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1           RULE         -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1           RULE         -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1           RULE         -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1           RULE         -      DIRECTRY
83.018 01/18 08.56 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV420    TLC1           RULE         -      DIRECTRY
83.018 01/18 08.57 TLC0091  TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV436    TLC1           RULE         -      DIRECTRY
83.018 01/18 09.19 TLC009   TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK01                                        LOG    R-DSD-WORK01
TCASATLC009                LV436    TLC1           RULE         -      DIRECTRY
83.018 01/18 09.48 TLC009   TLC009   STAFF AUDITOR              0   0   4   0   4

R-DSD-WORK02                                        LOG    R-DSD-WORK02
TCFISTLC003                LV436    TLC1           RULE         -      DIRECTRY
83.012 01/12 09.51 TLC003   TLC003   PEARL                      0   0   4   0   4
```

ACFRPTRV

```
ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   15
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE LOG

REQUESTED RESOURCE                                     LOOKUP KEY
UID                          SOURCE   CPU  MODULE   DISP   DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME      LID        NAME                PRE RMC INT PST FIN

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCFISTLC003                  LV436    TLC1          RULE      -      DIRECTRY
83.012 01/12 10.00 TLC003    TLC003    PEARL                  0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCFSPTLC005                  LV437    TLC1          RULE      -      DIRECTRY
83.014 01/14 08.43 TLC005    TLC005    MARY                   0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCFSPTLC005                  LV437    TLC1          RULE      -      DIRECTRY
83.014 01/14 08.43 TLC005    TLC005    MARY                   0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCASATLC009                  LV420    TLC1          RULE      -      DIRECTRY
83.017 01/17 12.09 TLC0091   TLC009    STAFF AUDITOR          0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCASATLC009                  LV420    TLC1          RULE      -      DIRECTRY
83.017 01/17 12.09 TLC0091   TLC009    STAFF AUDITOR          0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCASATLC009                  LV420    TLC1          RULE      -      DIRECTRY
83.017 01/17 12.09 TLC0091   TLC009    STAFF AUDITOR          0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCASATLC009                  LV420    TLC1          RULE      -      DIRECTRY
83.017 01/17 12.12 TLC0091   TLC009    STAFF AUDITOR          0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCASATLC009                  LV420    TLC1          RULE      -      DIRECTRY
83.017 01/17 12.12 TLC0091   TLC009    STAFF AUDITOR          0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCASATLC009                  LV420    TLC1          RULE      -      DIRECTRY
83.017 01/17 12.12 TLC0091   TLC009    STAFF AUDITOR          0   0   4   0   4

R-DSD-WORK02                                         LOG  R-DSD-WORK02
TCASATLC009                  LV420    TLC1          RULE      -      DIRECTRY
83.017 01/17 12.12 TLC0091   TLC009    STAFF AUDITOR          0   0   4   0   4
```

ACFRPTRV

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ACF2 UTILITY LIBRARY - ACFRPTRV - GENERALIZED RESOURCE LOG - PAGE   1
DATE 10/05/84 (84.279) TIME 16.20 GEN. RESOURCE VIOLATIONS

REQUESTED RESOURCE                                          LOOKUP KEY
UID                          SOURCE   CPU  MODULE   DISP     DSP-MOD  KEY-MOD  SERV
    DATE     TIME  JNAME      LID      NAME                    PRE RMC INT PST FIN

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCFOSTLC001                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.014 01/14 09.52 TLC001    TLC001   VIOLET                    0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCFOSTLC001                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.014 01/14 09.55 TLC001    TLC001   VIOLET                    0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCFOSTLC001                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.014 01/14 09.57 TLC001    TLC001   VIOLET                    0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCFOSTLC001                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.014 01/14 09.58 TLC001    TLC001   VIOLET                    0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCFOSTLC001                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.014 01/14 10.03 USRTMR1   TLC001   VIOLET                    0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCASATLC009                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.017 01/17 12.00 TLC0091   TLC009   STAFF AUDITOR             0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCASATLC009                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.017 01/17 12.17 TLC0091   TLC009   STAFF AUDITOR             0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCASATLC009                  LV420    TLC1          NO-RULE     -      DIRECTRY
83.017 01/17 12.30 TLC0091   TLC009   STAFF AUDITOR             0   0  20   0  16

R-DSD-SPOOLA                                          *VIO  R-DSD-SPOOLA
TCASATLC009                  LV436    TLC1          NO-RULE     -      DIRECTRY
83.018 01/18 09.48 TLC0091   TLC009   STAFF AUDITOR             0   0  20   0  16
```

Revised: October 9, 1984

DO

COMPLIANCE

TESTING

Revised: 5/3/83

SELECT TLC LOGONIDS

```
READY
acf
? set terse
? set lid
? list if(security)
ACFUSER SHD99ACFUSER TLC1
TLC003 TCFISTLC003 PEARL
?


  list if(account)
ACFUSER SHD99ACFUSER TLC1
TLC003 TCFISTLC003 PEARL
TLC006 TCHBATLC006 KATHY
?


  list if(audit)
ACFUSER SHD99ACFUSER TLC1
TLC009 TCASATLC009 STAFF AUDITORS
?


  list if(leader)
ACFUSER SHD99ACFUSER TLC1
?



  list if(non-cncl)
TLC005 TCFSPTLC005 MARY
?



  list if(readall)
TLC009 TCASATLC009 STUDENT AUDITORS
?



  list if(tape-blp)
ACF02010 RECORD(S) NOT FOUND
?



  list if(tape-lbl)
ACF02010 RECORD(S) NOT FOUND
? end
READY
```

Revised: 10/10/84

ACFRPTSL

LOGONID SUPERLIST REPORT

- PROVIDES A LISTING OF ALL LOGONID RECORDS WHICH MATCH SELECTION CRITERIA SPECIFIED IN JCL PARAMETERS.

- ABILITY TO COPY OR SELECT AND PRINT LOGONID RECORDS IN LONG OR SHORT FORMATS.

- ALLOWS FOR FLEXIBLE REPORTING BASED ON THE 'IF' PARAMETER.

- ALLOWS FOR FLEXIBLE FIELD PRINTING AND EDITING.

Revised: March 4, 1983

ACFRPTSL EXAMPLE #1

```
ACF2 UTILITY LIBRARY - ACFRPTSL - LOGONID SUPERLIST REPORT - PAGE  1
DATE 03/28/83 (83.087) TIME 16.24 MASK(TLC005),REPORT(FULL),INPUT(SMF

 TLC005                TCFSPTLC005 MARY EXT. 125
 PRIVILEGES            CICS JOB TSO
 ACCESS                ACC-CNT(0) ACC-DATE(00/00/00) ACC-SRCE()
                       ACC-TIME(00:00)
 MISCELLANEOUS         CICSCL(404040) COMPANY(T) LEVEL(F)
                       MAXDAYS(60) PREFIX(TLC005) PROJECT(SP) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
                       PSWD-VIO(0) SEC-VIO(0) UPD-TOD(01/12/83-09:08)

 TLC005                TCFSPTLC005 MARY EXT. 125
 PRIVILEGES            CICS JOB NON-CNCL TSO
 ACCESS                ACC-CNT(0) ACC-DATE(00/00/00) ACC-SRCE()
                       ACC-TIME(00:00)
 MISCELLANEOUS         CICSCL(404040) COMPANY(T) LEVEL(F)
                       MAXDAYS(60) PREFIX(TLC005) PROJECT(SP) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
                       PSWD-VIO(0) SEC-VIO(0) UPD-TOD(01/12/83-09:45)

 TLC005                TCFSPTLC005 MARY EXT. 125
 PRIVILEGES            CICS JOB NON-CNCL TSO
 ACCESS                ACC-CNT(0) ACC-DATE(00/00/00) ACC-SRCE()
                       ACC-TIME(00:00)
 MISCELLANEOUS         CICSCL(404040) COMPANY(T) LEVEL(F)
                       MAXDAYS(60) PREFIX() PROJECT(SP) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
                       PSWD-VIO(0) SEC-VIO(0) UPD-TOD(01/12/83-09:45)

 TLC005                TCFSPTLC005 MARY EXT. 125
 PRIVILEGES            AUDIT CICS JOB NON-CNCL READALL SCPLIST(AUDITOR)
                       TSO
 ACCESS                ACC-CNT(0) ACC-DATE(00/00/00) ACC-SRCE()
                       ACC-TIME(00:00)
 MISCELLANEOUS         CICSCL(404040) COMPANY(T) LEVEL(F)
                       MAXDAYS(60) PREFIX() PROJECT(SP) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
                       PSWD-VIO(0) SEC-VIO(0) UPD-TOD(01/12/83-09:45)
```

ACFRPTSL EXAMPLE #1

```
ACF2 UTILITY LIBRARY - ACFRPTSL - LOGONID SUPERLIST REPORT - PAGE  2
DATE 03/28/83 (83.087) TIME 16.24 MASK(TLC005),REPORT(FULL),INPUT(SMF

 TLC005                TCFSPTLC005 MARY EXT. 125
 PRIVILEGES            AUDIT CICS JOB NON-CNCL READALL SCPLIST(AUDITOR)
                       TSO
 ACCESS                ACC-CNT(0) ACC-DATE(00/00/00) ACC-SRCE()
                       ACC-TIME(00:00)
 MISCELLANEOUS         CICSCL(404040) COMPANY(T) LEVEL(F)
                       MAXDAYS(60) PREFIX(TLC005) PROJECT(SP) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
                       PSWD-VIO(0) SEC-VIO(0) UPD-TOD(01/12/83-09:54)

 TLC005                TCFSPTLC005 MARY EXT. 125
 PRIVILEGES            CICS JOB NON-CNCL TSO
 ACCESS                ACC-CNT(0) ACC-DATE(00/00/00) ACC-SRCE()
                       ACC-TIME(00:00)
 MISCELLANEOUS         CICSCL(404040) COMPANY(T) LEVEL(F)
                       MAXDAYS(60) PREFIX(TLC005) PROJECT(SP) SITE(C)
 TSO                   CHAR(BS) DFT-PFX(TLC005) DFT-SOUT(A) DFT-SUBM(A)
                       INTERCOM JCL LGN-SIZE LINE(ATTN) MAIL MSGID
                       NOTICES PROMPT TSOPROC($SKKISPF) TSORGN(1,024)
                       TSOSIZE(8,172) WTP
 STATISTICS            PSWD-DAT(00/00/00) PSWD-TOD(00/00/00-00:00)
                       PSWD-VIO(0) SEC-VIO(0) UPD-TOD(01/12/83-09:54)
```

Revised: October 9, 1984

ACFRPTSL EXAMPLE #2

```
ACF2 UTILITY LIBRARY - ACFRPTSL - LOGONID SUPERLIST REPORT - PAGE  1
DATE 02/10/83 (83.041) TIME 13.16 IF((SEC-VIO * 2) GT (ACC-CNT * 3)),
    LOGONID  NAME                    DATE    TIME  CHANGER SEC-VIO          ACC-CNT

*******************************************************************************
ACF64001 USER REQUESTING REPORT - TLC009 -  STAFF AUDITOR
OUTPUT LIMITED TO ACF2 RECORDS WITHIN YOUR AUTHORITY AND SCOPE.
AUTHORITY: AUDIT USER
SCOPE: UID(-)  DSN(-)  LID(-)
*******************************************************************************
    TLC001   VIOLET                  02/03/83-17:44          8                 5
    TLC002   STEVE                   02/03/83-17:44          5                 3
```

Revised: October 9, 1984

ACFRPTSL EXAMPLE #3

```
ACF2 UTILITY LIBRARY - ACFRPTSL - LOGONID SUPERLIST REPORT - PAGE  1
DATE 02/28/83 (83.059) TIME 11.50 IF(ACC-DATE LT D'02/01/83'),SFLDS(A
    LOGONID  NAME                    DATE    TIME  CHANGER ACC-DATE

*******************************************************************************
ACF64001 USER REQUESTING REPORT - TLC009 - STUDENT AUDITORS
OUTPUT LIMITED TO ACF2 RECORDS WITHIN YOUR AUTHORITY AND SCOPE.
AUTHORITY: AUDIT USER
SCOPE: UID(-)  DSN(-)  LID(-)
*******************************************************************************
    ACFUSER   TLC1                   02/03/83-17:44          05/22/81
    TLC002    STEVE                  02/11/83-13:51          01/14/83
    TLC004    OSCAR                  02/11/83-13:51          01/13/83
    TLC005    MARY                   02/11/83-13:51          01/14/83
    TLC006    KATHY                  02/11/83-13:51          01/12/83
    TLC008    PAYROLL JCL            02/11/83-13:51          01/17/83
```

Revised: October 9, 1984

ACFRPTIX

ACCESS INDEX REPORT

- AIDS THE SECURITY OFFICER OR AUDITOR IN DETERMINING WHEN THE ACCESS ENVIRONMENT FOR A PARTICULAR DATASET PREFIX HAS CHANGED.

- SHOWS RULES OR LOGONID RECORDS WHICH AFFECTED RULES FOR THE SPECIFIED HIGH LEVEL INDEX.

Revised: March 4, 1983

ACFRPTIX

```
CF2 UTILITY LIBRARY - ACFRPTIX - ACCESS INDEX DETAIL REPORT - PAGE   1
ATE 01/18/83 (83.018) TIME 08.57 PREFIX(PAYROLL ) DATASET INDEX REPORT

 RULE PAYROLL  STORED BY TLC003   ON 83.012 (01/12) 10.02
KEY(PAYROLL)
BENEFITS.- UID(TCHBA) READ(A) WRITE(A) EXEC(A)
BENEFITS.- UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
CONTROL.DATA UID(TCFOS) READ(A) WRITE(A) ALLOC(A) EXEC(A)
DEPT.TOTALS UID(TCHPJ) READ(A) WRITE(A) ALLOC(L) EXEC(A)
HOURS.WEEKLY UID(TCHAC) READ(A) WRITE(A) EXEC(A)
HOURS.WEEKLY UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
MASTER.ACTIVE UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY030) DDN(SYSUT2) WRITE(A)
MASTER.ACTIVE UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
MASTER.BACKUP UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY020) DDN(SYSUT2) WRITE(A)
MASTER.BACKUP UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY021) DDN(SYSUT1) READ(A) EXE
MASTER.BACKUP UID(TCHPJ) ALLOC(L)
PROD.LOADLIB UID(TCFQA) READ(A) WRITE(A) ALLOC(L) EXEC(A)
PROD.LOADLIB UID(TCH) EXEC(A)


 RULE PAYROLL  STORED BY TLC003   ON 83.014 (01/14) 10.13
KEY(PAYROLL)
BENEFITS.- UID(TCHBA) READ(A) WRITE(A) EXEC(A)
BENEFITS.- UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
CONTROL.DATA UID(TCFOS) READ(A) WRITE(A) ALLOC(A) EXEC(A)
CONTROL.DATA UID(TCHPJ) READ(A) EXEC(A)
DEPT.TOTALS UID(TCHPJ) READ(A) WRITE(A) ALLOC(L) EXEC(A)
HOURS.WEEKLY UID(TCHAC) READ(A) WRITE(A) EXEC(A)
HOURS.WEEKLY UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
MASTER.ACTIVE UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY030) DDN(SYSUT2) WRITE(A)
MASTER.ACTIVE UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
MASTER.BACKUP UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY020) DDN(SYSUT2) WRITE(A)
MASTER.BACKUP UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY021) DDN(SYSUT1) READ(A) EXE
MASTER.BACKUP UID(TCHPJ) ALLOC(L)
PROD.LOADLIB UID(TCFQA) READ(A) WRITE(A) ALLOC(L) EXEC(A)
PROD.LOADLIB UID(TCH) EXEC(A)


 RULE PAYROLL  STORED BY TLC003   ON 83.017 (01/17) 09.50
KEY(PAYROLL)
BENEFITS.- UID(TCHBA) READ(A) WRITE(A) EXEC(A)
BENEFITS.- UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
CONTROL.DATA UID(TCFOS) READ(A) WRITE(A) ALLOC(A) EXEC(A)
CONTROL.DATA UID(TCHPJ) READ(A) EXEC(A)
DEPT.TOTALS UID(TCHPJ) READ(A) WRITE(A) ALLOC(L) EXEC(A)
HOURS.WEEKLY UID(TCHAC) READ(A) WRITE(A) EXEC(A)
HOURS.WEEKLY UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
MASTER.ACTIVE UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY021) DDN(SYSUT2) WRITE(A)
MASTER.ACTIVE UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY030) DDN(SYSUT2) WRITE(A)
MASTER.ACTIVE UID(TCHPJ) READ(A) ALLOC(L) EXEC(A)
MASTER.BACKUP UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY020) DDN(SYSUT2) WRITE(A)
MASTER.BACKUP UID(TCHPJ) LIB(PROD.LOADLIB) PGM(PAY021) DDN(SYSUT1) READ(A) EXE
MASTER.BACKUP UID(TCHPJ) ALLOC(L)
PROD.LOADLIB UID(TCFQA) READ(A) WRITE(A) ALLOC(L) EXEC(A)
PROD.LOADLIB UID(TCH) EXEC(A)
```


Revised: March 9, 1983

ACFRPTXR

CROSS-REFERENCE REPORT

- DETERMINE WHO HAS ACCESS TO WHAT BASED ON CURRENT RULES

- DISPLAYS LOGONID AND REASON FOR ACCESS BEING ALLOWED, E.G.

  NC - NON CANCELLABLE
  0 - OWNER
  RA - READ-ONLY/NON-CANCELLABLE
  SC - SCOPED SECURITY OFFICER
  SE - SECURITY OFFICER (UNSCOPED)
  U - UID MATCH ON THE RULE

- PARAMETER DRIVEN

  - CAN USE ON LINE ACF2 DATASET OR RESOURCE RULES OR ALTERNATE SET OF CLUSTERS

Revised: July 30, 1983

ACFRPTXR

```
CF2 UTILITY LIBRARY - ACFRPTXR - CROSS REFERENCE REPORT - PAGE    1
ATE 01/18/83 (83.018) TIME 08.57 DATASET CROSS-REFERENCE REPORT

--------------------------------------------------------------------------------
ATASET: PAYROLL.PROD.LOADLIB
TORED: 01/17/83-09:50 BY: TLC003


OGONIDS THAT HAVE ACCESS WITHOUT RULES
CFUSER(SE)  TLC003(SE)   TLC005(NC)   TLC009(RA)

'ROD.LOADLIB UID(TCFQA) READ(A) WRITE(A) ALLOC(L) EXEC(A)
'LC004

'ROD.LOADLIB UID(TCH) EXEC(A)
'LC006       TLC007       TLC008
```


Revised: March 9, 1983

ACFRPTXR

```
ACF2 UTILITY LIBRARY - ACFRPTXR - RULE RECORD SUMMARY - PAGE    1
DATE 01/18/83 (83.018) TIME 08.57 DATASET CROSS-REFERENCE REPORT

--------------------------------------------------------------------------------
DATASET KEY: PAYROLL
STORED: 01/17/83-09:50 RULE USED, NO %CHANGE DATA

LOGONIDS THAT CAN UPDATE THIS RULE
ACFUSER(SE)  TLC003(SE)
READY
```

ACFRPTRX

LOGONID ACCESS REPORT

- REVERSE CROSS-REFERENCE REPORT.

- LISTS ALL ACCESS OR GENERALIZED RESOURCE RULES THE USER'S UID MATCHES.

- INDICATES OTHER PRIVILEGES THE USER HAS.

Revised: March 4, 1983

ACFRPTRX

```
ACF2 UTILITY LIBRARY - ACFRPTRX - LOGONID ACCESS REPORT - PAGE    1
DATE 02/10/83 (83.041) TIME 11.43

INPUT PARAMETERS: DSET RMASK(PAYROLL)

LID FILE PROCESSING COMPLETE, RECORDS SELECTED = 00173
RULE FILE PROCESSING COMPLETE, RECORDS SELECTED = 00001

--------------------------------------------------------------------------------
SYSIDLST PARAMETERS: LID(TLC007)

--------------------------------------------------------------------------------
LID: TLC007    UID: TCHACTLC007
NAME: JOHN

$KEY(PAYROLL)
STORED: 01/17/83-09:50 BY: TLC003
 HOURS.WEEKLY UID(TCHAC) READ(A) WRITE(A) EXEC(A)
 PROD.LOADLIB UID(TCH) EXEC(A)
```

EVALUATE

RESULTS

Revised: 5/3/83

REPORT

TO

MANAGEMENT

Revised: 5/3/83

acf2

The Access Control Facility

OPERATING

SYSTEM

CONCERNS

03/08/83

AREAS OF CONCERN

Controlling modifications to the Operating System

The supervisor call table

The program properties table

The authorized program facility

QUALITY ASSURANCE PROGRAM ACCEPTANCE PROCEDURE

1) QA receives test source from applications and logs Date, Time, and Module.

2) QA reviews suitability of test source.

3) If the source is unsuitable, it is returned to applications, and the log entry from step one is deleted.

4) QA compiles the test source and links it into the production loadlib. The Date, Time, and Module are logged.

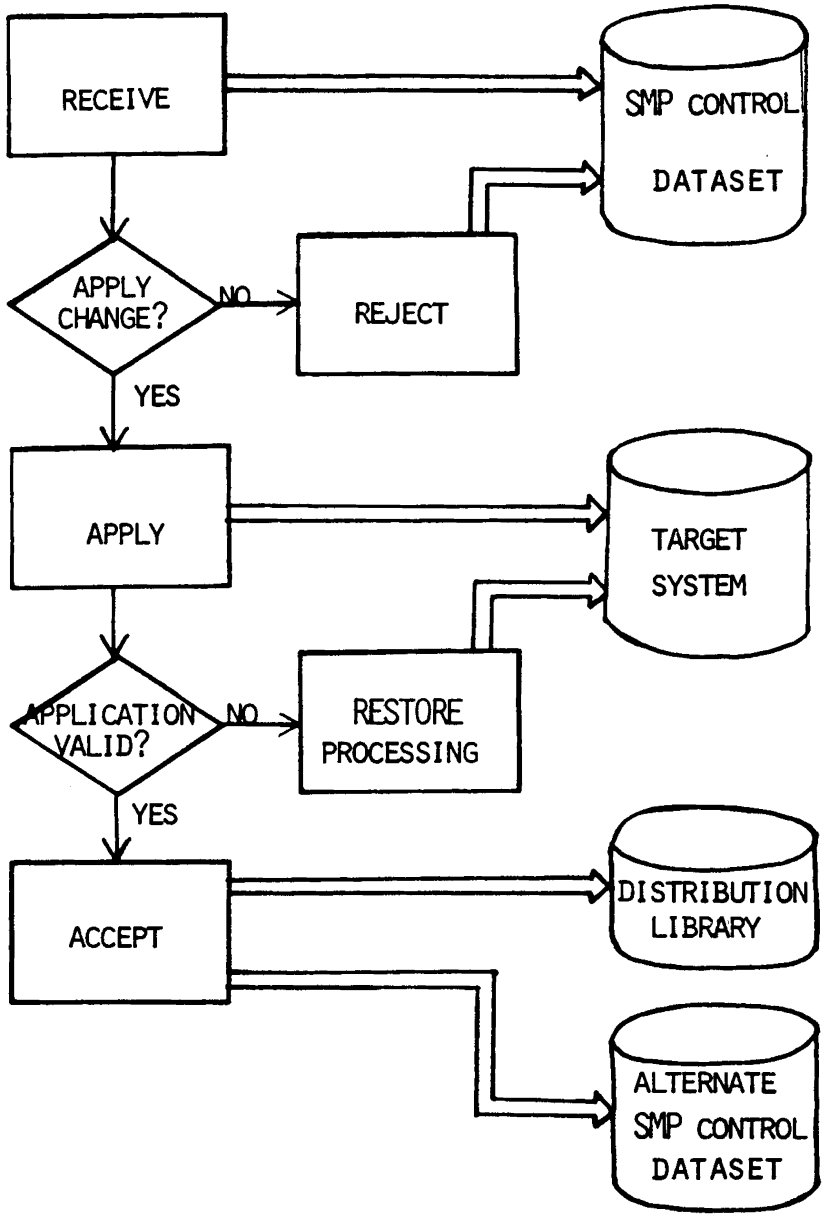
5) QA executes the program with test data and evaluates the results.

6) If the results are unacceptable, QA compiles the production source and links it into the production loadlib. The log entry from step four is deleted.

7) QA replaces the production source with test source, and logs the Date, Time, and Module.

7/1/83

SYSTEM MODIFICATION PROGRAM PROCESSING



Revised: 07/30/83

SMP LIST CDS

```
   DATE 83.109  TIME 13:07:49      HMASMP LVL 04.25 SMPLIST OUTPUT    PAGE 000
LIST CDS SYSMOD(TT70025,TT70197,TT90003,TT90004) USERMOD .
```

SMP LIST CDS

```
     DATE 83.109  TIME 13:07:49      HMASMP LVL 04.25 SMPLIST OUTPUT    PAGE 000

SMPCDS   SYSMOD ENTRIES


  NAME

TT70025   TYPE              = USERMOD
          STATUS            = REC  APP  ACC
          FMID              = JBB1326
          DATE/TIME REC     = 82.190  22:25:32
                    APP     = 82.190  22:33:15
                    ACC     = 82.190  22:37:12
          SUPING VER(001)   = TT70005   TT70015
          ASSEM             = IEFSDPPT
          MACUPD            = SGIEF0PT

TT70197   TYPE              = USERMOD
          STATUS            = REC  APP
          FMID              = JBB1113
          DATE/TIME REC     = 82.315  21:25:09
                    APP     = 82.321  21:18:11
          PRE     VER(001)  = UZ55179
          SUPING VER(001)   = TT70167
          SZAP              = IKJEFLE   IKJEFLJA

TT90003   TYPE              = USERMOD
          STATUS            = REC  APP  ACC
          FMID              = HJE2226
          DATE/TIME REC     = 82.191  00:28:07
                    APP     = 82.191  00:48:11
                    ACC     = 82.191  01:04:43
          LASTSUP           = TT90004
          SUPING VER(001)   = TT90001   TT90002   TS73718
          ASSEM             = HASPRDR   HASPSSSM
          SRCUPD            = HASPRDR   HASPSSSM

TT90004   TYPE              = USERMOD
          STATUS            = REC  APP  ACC
          FMID              = HJE2226
          DATE/TIME REC     = 82.236  15:54:53
                    APP     = 82.236  17:02:30
                    ACC     = 82.236  17:47:39
          SUPING VER(001)   = TT90001   TT90002   TS73718   TT90003   TS79000
          ASSEM             = HASPRDR   HASPSSSM
          SRCUPD            = HASPRDR   HASPSSSM
```

STAGE ONE SYSGEN INPUT

```
22200           EJECT
22300 ********************************************************************
22400 *     SYSTEM CONSOLES FOR 3032 AND 158MP                           *
22500 ********************************************************************
22600 C009      CONSOLE  MCONS=009,ALTCONS=01F,ROUTCDE=ALL,PFK=12,           X
22700                OLDWTOR=1,AREA=16
22800           SPACE 2
22900 C01F      CONSOLE SECONS=01F,ROUTCDE=,ALTCONS=021
23000           SPACE 2
23100 C012      CONSOLE  SECONS=0-012,ROUTCDE=ALL
23200           SPACE 2
23300 C021      CONSOLE  SECONS=021,ROUTCDE=ALL
23200           SPACE 2
23400 C5A0      CONSOLE  SECONS=5A0,ROUTCDE=ALL
23200           SPACE 2
23400 C44F      CONSOLE  SECONS=44F,ROUTCDE=,VALDCMD=(1,2,3)
23500           EJECT
23600 ********************************************************************
23700 *         -------------  S V C   T A B L E   --------------          *
23800 *                                                                    *
23900 *         SPECIFY THE NUMBER  TYPE  LOCK_HELD AUTHORIZATION          *
24000 ********************************************************************
24100           SPACE 5
24200 *       BELOW IS AN EXAMPLE OF THE SVCTABLE MACRO CODING, INCLUDING
24300 *       AN ENTRY FOR EACH SVC TYPE.
24400 *
24500 *               SVC-255-T1-FC00,     TYPE1  DONT FORGET COL 72---------->
24600 *               SVC-254-T2-FC00,     TYPE2  FOR CONTINUATION WHEN
24700 *               SVC-253-T3-FC00,     TYPE3  ACTUALLY CODING.
24800 *               SVC-252-T4-FC00,     TYPE4
24900 *               SVC-251-T5-FC00,     TYPE5
25000 *               SVC-250-T6-FC00,     TYPE6
25100 *               SVC-249-T3-L1-FC01-NP
25200 *                    ^   ^  ^  ^    ^
25300 *                    ^   ^  ^  ^    ^OPTIONAL-SPECIFIES THAT SVC RUNS
25400 *                    ^   ^  ^  ^     NONPREEMPTIBLE FOR I/0 INTERRUPTS.
25500 *                    ^   ^  ^  ^
25600 *                    ^   ^  ^  ^OPTIONAL-INDICATES FUNCTION CODE 01,
25700 *                    ^   ^  ^   RESTRICTING USE OF THE SVC TO AUTHORIZED
25800 *                    ^   ^  ^   STEPS, IS TO BE ASSIGNED.  IF NOT
25900 *                    ^   ^  ^   SPECIFIED, FC00 IS ASSUMED, MAKING SVC
26000 *                    ^   ^  ^   UNRESTRICTED.
26100 *                    ^   ^  ^
26200 *                    ^   ^  ^OPTIONAL-SPECIFIES VALUE(S) THAT WILL
26300 *                    ^   ^   INDICATE WHICH LOCKS TO OBTAIN BEFORE ENTRY
26400 *                    ^   ^   TO SVC. L1=LOCAL,L2-CMS,L3=SRM,L4=SALLOC9,
26500 *                    ^   ^   L5=DISPATCHER.  THIS PARM IS INVALID FOR
26600 *                    ^   ^   TYPE 6 SVC.
26700 *                    ^   ^
26800 *                    ^   ^REQUIRED-SPECIFIES SVC TYPE AS 1,2,3,4,5 OR 6.
26900 *                    ^
27000 *                    ^REQUIRED-SPECIFIES USER SVC AS A DECIMAL
27100 *                     NUMBER AND MUST BE UNIQUE WITHIN THE RANGE OF
27200 *                     200-255.
27300 *
27400 *                   NOTE: IN THE EXAMPLE ABOVE, THE FIRST SIX ENTRIES
27500 *                   REPRESENT UNRESTRICTED USER WRITTEN SVCS, A TYPE-5
```

STAGE ONE SYSGEN INPUT

```
27600 *                    SVC, AND A USER WRITTEN TYPE-6 SVC.
27700 *                    FOR ADDITIONAL DETAILS IN CODING THE SVCTABLE
27800 *                    MACRO, REFERENCE SPL: SYSTEM GENERATION
27900 *                    REFERENCE MANUAL: GC26-3792.
28000 *                    FOR ADDITIONAL DETAILS CONCERNING THE SVC TYPES
28100 *                    REFERENCE SPL: SUPERVISOR
28200 *                    REFERENCE MANUAL: GC28-0753.
28300 *
28400           EJECT
28500 SVCTB     SVCTABLE                                                    +
28600                 SVC-255-T4-FC00,     IMS      UNUSED                 +
28700                 SVC-254-T2-FC00,     IMS      UNUSED                 +
28800                 SVC-253-T1-FC00,     IMS      UNUSED                 +
28900                 SVC-252-T3-FC00,     USER                            +
29000                 SVC-251-T1-FC00,     VSPC                            +
29100                 SVC-250-T2-FC00,     AVAILABLE                NEW    +
29200                 SVC-249-T3-FC00,     AVAILABLE                       +
29300                 SVC-248-T4-FC00,     AVAILABLE                NEW    +
29400                 SVC-247-T3-FC00,     SYSTEM                          +
29500                 SVC-246-T1-FC00,     AVAILABLE                NEW    +
29600                 SVC-245-T4-FC00,     IMS      DBRC                   +
29700                 SVC-244-T2-FC00,     IMS      SPARE                  +
29800                 SVC-243-T1-FC00,     IMS      UNUSED                 +
29900                 SVC-242-T4-FC00,     AVAILABLE                NEW    +
30000                 SVC-241-T4-FC00,     AVAILABLE                NEW    +
30100                 SVC-240-T2-FC00,     HSM                             +
30200                 SVC-239-T1-(L1,L2)-FC00,  APLSV CMS LOCK      NEW    +
30300                 SVC-238-T1-FC00,     VSPC FUTURE              NEW    +
30400                 SVC-237-T4-FC00,     AVAILABLE                NEW    +
30500                 SVC-236-T4-FC00,     AVAILABLE                NEW    +
30600                 SVC-235-T3-FC00,     SPF - ISPCOPY            SKK    +
30700                 SVC-234-T2-FC00,     IMS      1.1.5                  +
30800                 SVC-233-T1-FC00,     AVAILABLE                NEW    +
30900                 SVC-227-T4-FC00,     CICS(7770)               NEW    +
31000                 SVC-226-T2-FC00,     CICS(DL/I)               NEW    +
31100                 SVC-225-T6-FC00,     CICS(HPSVC)                     +
31200                 SVC-224-T4-FC00,     CICS(CSVC)             WAS T3   +
31300                 SVC-223-T3-FC00,     HIGH SPEED DASDR                +
31300                 SVC-222-T4-FC00,     ACF2 DEFAULT                    +
31300                 SVC-221-T4-FC00,     ACF2 DEFAULT                    +
31300                 SVC-220-T3-FC00,     AVAILABLE                       +
31400                 SVC-217-T4-FC00,     CICS(7770)               NEW    +
31500                 SVC-216-T2-FC00,     CICS(DL/I)               NEW    +
31600                 SVC-215-T6-FC00,     CICS(HPSVC)                     +
31700                 SVC-214-T4-FC00      CICS(CSVC)             WAS T3
31800           EJECT
31900 ************************************************************************
32000 *                  ---  GENERATE  ---                                  *
32100 ************************************************************************
32200           GENERATE                                                    +
32300                 GENTYPE=ALL,              COMPLETE SYSGEN, WAS (IO,1) +
32400                 INDEX=SYS1,               START WITH SYS1.     /*FULL*/+
32500                 JCLASS=A,                 JOBCLASS FOR STAGE TWO      +
32600                 OCLASS=A,                 OUTPUT PRINT CLASS          +
32700                 OBJPDS=SYS1.OBJPDS,       OBJECT DATASET              +
32800                 RESVOL=(MVSRES,3350)
32900           END
```

PROGRAM PROPERTIES TABLE


```
AMASPZAP  INSPECTS, MODIFIES, AND DUMPS CSECTS OR SPECIFIC DATA RECORDS ON DIRECT ACCESS STORAGE.
  DUMPT IEFSD060 IEFSDPPT                                                     00033515

**CCHHR- 020A000B01   RECORD LENGTH- 004760        MEMBER NAME  IEFSD060  CSECT NAME  IEFSDPPT
 000000   C9C5 C4D8  E3C3 C1D4  6260 FFFF  2000 0000    C9E2 E3C9  D5D4 F0F1  EA60 FFFF  2000 0000   *IEDQTCAM.-.......*
                                           LPDR                    CLC  SRP              LPDR        *ISTINM01.-.......*
 000020   C9D2 E3C3  C1E2 F0F0  D860 FFFF  0000 0000    C1C8 D3C7  E3C6 4040  E800 FFFF  2000 0000   *IKTCAS00Q-.......*
                          SRP                                MVZ        STH              LPDR        *AHLGTF  Y.......*
 000040   C8C8 D3C7  E3C6 4040  E800 FFFF  2000 0000    C9C8 D3C7  E3C6 4040  E800 FFFF  2000 0000   *HHLGTF  Y.......*
               MVZ        STH              LPDR              MVZ        STH              LPDR        *IHLGTF  Y.......*
 000060   C9C5 C6C9  C9C3 4040  D800 FFFF  0000 0000    C9C5 C5D4  C2F8 F6F0  EE00 FFFF  0000 0000   *IEFIIC  Q.......*
                          STH                                                                        *IEEMB860........*
 000080   C9C5 C5E5  D4D5 E3F2  C800 FFFF  0000 0000    C9C1 E2E7  E6D9 F0F0  C810 FFFF  0000 0000   *IEEVMNT2H.......*
                     NC                                                 SRP                          *IASXWR00H.......*
 0000A0   C3E2 E5E5  C6C3 D9C5  6800 FFFF  0000 0000    C8C1 E2D1  C5E2 F2F0  EE10 FFFF  0000 0000   *CSVVFCRE........*
                                LD                                      PACK                         *HASJES20........*
 0000C0   C4C6 E2D4  E5D9 C3F0  6870 FFFF  0000 0000    C9D9 C2D4  C6D4 C6C3  1800 FFFF  0000 0000   *DFSMVRC0........*
                                LD                                            LR                     *IRBMFMFC........*
 0000E0   C9C1 E3C9  D5E3 D240  EE10 FFFF  0000 0000    C1C3 C6D4  C1C9 D540  CA10 FFFF  2000 0000   *IATINTK ........*
                     CLC  MVC                                           CLC              LPDR        *ACFMAIN ........*
 000100   C4E7 D9D9  D3D4 F0F0  6870 FFFF  0000 0000    C8C1 E2D1  C5E2 F3F0  EE10 FFFF  2000 0000   *DXRRLM00........*
                     MVZ  SRP   LD                                      UNPK             LPDR        *HASJES30........*
 000120   0000 0000  0000 0000  6260 FFFF  2000 0000    0000 0000  0000 0000  6260 FFFF  2000 0000   *.........-......*
                                           LPDR                                          LPDR        *.........-......*
 000140   0000 0000  0000 0000  6260 FFFF  2000 0000    0000 0000  0000 0000  6260 FFFF  2000 0000   *.........-......*
                                           LPDR                                          LPDR        *.........-......*
 000160   FF00 0000  0000 0000  0000 0000  0000 0000    0000 0000  0000 0000  0000 0000  0000 0000   *................*
                                                                                                     *................*
 000180   0000 0000  0000 0000  0000 0000  0000 0000    0000 0000  0000 0000  0000 0000  0000 0000   *................*
                                                                                                     *................*
 0001A0   0000 0000  0000 0000  0000 0000  0000 0000    C9C5 C6E2  C4D7 D7E3  D1C2 C2F1  F3F2 F6F0   *................*
                                                                        XC    MVN        UNPK        *IEFSDPPTJBB13260*
 0001C0   F461 F2F4  61F8 F1                                                                         *4/24/81         *
               PACK
AMA113I COMPLETED DUMP REQUIREMENTS
```

PARMLIB MEMBERS

```
READY
pds 'sysl.parmlib'
ENTER OPTIONS
display
$$$COIBM    COMMNDJM    COMMNDMI    COMMNDRF    COMMND00
COMMND99    EP001       ERBRMFUP    ERBRMF00    ERBRMF01
ERBRMF02    ERBRMF03    ERBRMF05    ERBRMF06    ERBRMF07
ERBRMF08    ERBRMF09    FASDUMP     FASGENER    GTFPARM
GTFPARS     GTFSIO      IEAABD00    IEAAPFMI    IEAAPF00
IEABLDBA    IEABLDMI    IEABLDTS    IEABLD00    IEABLD43
IEADMP00    IEADMR00    IEAFIXIM    IEAFIXTS    IEAFIX00
IEAICSMI    IEAICS00    IEAICS43    IEAIPSMI    IEAIPSS1
IEAIPSS2    IEAIPSS3    IEAIPS00    IEAIPS43    IEAIPS44
IEALOD00    IEALOD43    IEALPADF    IEALPAFS    IEALPAJC
IEALPAJD    IEALPAJH    IEALPAKS    IEALPARO    IEALPARP
IEALPARQ    IEALPSJC    IEAOPTMI    IEAOPT00    IEAOPT43
IEAPAKBA    IEAPAKBV    IEAPAKTS    IEAPAKTV    IEAPAKV2
IEAPAK00    IEAPAK43    IEASYSJH    IEASYSMI    IEASYS00
IEASYS43    IEASYS99    IECIOSMI    IECIOS00    IEFSSN00
IKJPRMMI    IKJPRM00    IPCSPR00    IPCSPR01    JESXPARM
JES2PARM    LNKLSTMI    LNKLSTPP    LNKLST00    MVIKEY00
SMFPRMJC    SMFPRMMI    SMFPRM00    SMFPRM43    TSOKEYMI
TSOKEY00    TSOTAB      VATLSTMI    VATLST00    VATLST99
ENTER OPTIONS
end
```


Revised: March 9, 1983

SYSTEM INITIALIZATION PARAMETER LIST

```
LIST 'SYS1.PARMLIB(IEASYS00)'
AS151000 DSNAME='SYS1.PARMLIB(IEASYS00)'
010000 APF=00,                          AUTHORIZATION LIST
020000 APG=07,                          AUTOMATIC PRIORITY GROUP IS 7      DEFAULT
030000 BLDL=00,                         PAGEABLE IEABLD00 TABLE
040000 CMD=(00,RF),.                    TOD PROMPT, SDUMP, TRACE ON AND RMF /*J3*/
050000 CSA=2000,                        CONSIDER SETTING MAX USER REGION TO 8 MEG
060000 DUMP=DASD,                       PLACE SVC DUMPS ON DASD DEVICES    DEFAULT
070000 FIX=00,                          FIX MODULES SPECIFIED               /*J3*/
071000 GRS=NONE,                        NO GLOBAL RESOURCE SHARING
080000 HARDCPY=(SYSLOG,                 HARDCOPY LOG IS SYSTEM LOG(SYSLOG)
090000          ALL,                    RECORD ALL WTO/WTOR WITH ROUTE CODES
100000          CMDS),                  RECORD ALL COMMANDS AND RESPONSES
110000 ICS=00,                          SELECT IEAICS00 INSTALL CNTL SPECS FOR SRM
111000 IOS=00,                          SELECT IECIOS00 INSTALL CHANNEL ROTATE
120000 IPS=00,                          SELECT IEAIPS00 INSTALL PERF SPECS FOR SRM
130000 LNK=00,                          SPECIFY LNKLST00 AS LINK LIST       /*J3*/
140000 LOGCLS=L,                        WILL NOT BE PRINTED BY DEFAULT
150000 LOGLMT=999999,                   MUST BE 6 DIGITS, MAX WTL MESSAGES QUEUED
160000 MAXUSER=48,                      (SYS TASKS + INITS + TSOUSERS) < 36
170000 PAGNUM=(3,2),                    ALLOW ADDITION OF 3 PAGE D/S & 2 SWAP D/S
180000 OPI=YES,                         ALLOW OPERATOR OVERRIDE TO IEASYS00
190000 OPT=00,                          SPECIFY IEAOPT00 (SRM TUNING PARMETERS)
200000 PAGE=(ALTPAGE.VMVSCAT.PLPA,        PLPA PAGE DATA SET
210000       ALTPAGE.VMVSCAT.COMMON,      COMMON PAGE DATA SET
220000       ALTPAGE.VMVSCAT.LOCAL1,L),   USER(LOCAL) PAGE DATA SET
221000 SWAP=(ALTPAGE.VMVSCAT.SWAP),       SWAP PAGE DATA SET
230000 REAL=128,                        ALLOWS 2 64K JOBS OR 1 128K JOB TO RUN V=R
240000 RSU=0,                           NO RECONFIG STORAGE UNITS          DEFAULT
250000 SMF=00,                          SELECT SMFPRM00, SMF PARMETERS     DEFAULT
260000 SQA=3,                           SIZE=(3+3)*64K=384K VIRTUAL STORAGE
270000 VAL=00,                          SELECT VATLST00                    DEFAULT
280000 VRREGN=64,                       DEFAULT REAL-STORAGE REGION SIZE   DEFAULT
290000 WTOBFRS=500,                     SET NUMBER OF WTO BUFFERS
300000 WTORPLY=10                       SET NUMBER OF WTOR BUFFERS
310000 /* THIS COMPLETES THE SYSP LIST
320000 /*
330000 /* NOTE 1: NOTE THAT SCAN OF THE SYSP PARAMETERS ENDS AT THE FIRST
340000 /*         PARAMETER WITHOUT A COMMA.  WHEN MODIFYING ANY PARAMETER
350000 /*         EXCEPT THE LAST SPECIFIED, INCLUDE THE COMMA.
360000 /*
370000 /* NOTE 2: PAGE PARAMETER SPECIFIED AT IPL TIME MERGES WITH IEASYSXX
380000 /*         SEE INIT AND TUNING GUIDE GC28-0755.
390000 /*
400000 /* NOTE 3: THE FOLLOWING PARAMETERS HAVE BEEN OMITTED BY CHOICE
410000 ALT=                             CAN ONLY BE SPECIFIED BY THE OPERATOR
420000                                  NOT A VALID PARMETER FOR IEASYSXX
430000 CLPA                             RE-CREATION OF PLPA IS OPERATOR CHOICE
440000 CVIO                             DO NOT DELETE VIO D/S - CLPA IMPLIES CVIO
450000 DUPLEX=                          NO DUPLEX D/S - OPTIONAL WITH SU 7
470000 MLPA=                            NO MLPA PARAMETERS
480000 PURGE                            DO NOT DEMOUNT MSS VOLUMES
500000 SYSP=00                          SPECIFIED BY OPERATOR AT IPL FOR THIS SYSP
510000                                  NOT A VALID PARMETER FOR IEASYSXX
520000 /*                               THIS IS THE END OF IEASYS00
AS151001 END OF DATA
```


Revised: March 9, 1983

APF AUTHORIZED LIBRARIES

```
READY
list 'sys1.parmlib(ieaapf00)'
AS151000 DSNAME='SYS1.PARMLIB(IEAAPF00)'
010000  SYS1.VTAMLIB MVSRES,
020000  IPO1.LINKLIB MVSRES,
030003  SYS1.LINKLIB VS1ALT,
031011  SYS1.LINKLIB VS1RES,
040005  CICS.LOADLIB1 CICS01,
050005  CICS.LOADLIB2 CICS01,
060008  CICS.TESTLIB1 CICS01,
070008  CICS.TESTLIB2 CICS01,
080010  SKK.TSOLIB SKKCAT,
090010  SYS1.SMLIB MVSRES,
100009  SSDRSO.WORK.LOAD WORK03,
110012  ACF2SRC.WORK.LOAD PVTLIB,
111012  TSSPK.TEST.LOAD WORK01
120000  /* DOC:     THIS MEMBER CONTAINS A LIST OF PROGRAM
130000  /*          LIBRARY NAMES AND VOLUME SERIAL NUMBERS
140000  /*          THAT REQUIRE APF AUTHORIZATION.
150000  /*
AS151001 END OF DATA
READY
READY
```

```
list 'sys1.parmlib(lnklst00)'
AS151000 DSNAME='SYS1.PARMLIB(LNKLST00)'
010000 SYS1.LINKLIB,IPO1.LINKLIB,SYS1.CMDLIB,SKK.TSOLIB,SKK.MVSLIB,SYS1.SMLIB,
020000 ACF2SRC.WORK.LOAD,SSDRSO.WORK.LOAD,ISP.R1M0.ISPLOAD
030000  /* DOC THIS MEMBER SPECIFIES THE NAMES OF PROGRAM
040000  /*     LIBRARIES VOLUMES THAT ARE TO BE CONCATENATED
050000  /*     TO 'SYS1.LINKLIB'.  THIS MVS/SP SYSTEM IPO
060000  /*     LINKLIST CONCATENATION IS AS FOLLOWS:
070000  /*    .*   'SYS1.LINKLIB'
080000  /*    .*   'IPO1.LINKLIB'
090000  /*    .*   'SYS1.CMDLIB'
100000  /*
AS151001 END OF DATA
READY
READY
```


Revised: March 9, 1983

SMF PARAMETERS

```
READY
list 'sys1.parmlib(smfprm00)'
AS151000 DSNAME='SYS1.PARMLIB(SMFPRM00)'
010000       ACTIVE                          /*ACTIVE SMF RECORDING*/
020000       DSNAME(SYS1.MAN1,SYS1.MAN2,SYS1.MAN3)  /* THREE DATA SETS */
030000       NOPROMPT                       /*DO NOT PROMPT OPERATOR FOR OPTIONS*/
040000       REC(PERM)                       /*TYPE 17 PERM RECORDS ONLY*/
050000       BUFNUM(4,9)                     /* 4 - 4096 BUFFERS ALWAYS AND
060000                                          ALLOW UP TO 9 BEFORE SUSPENDING
070000                                          A USER FOR BUFFER SHORTAGE*/
080000       MAXDORM(3000)                  /* WRITE AN IDLE BUFFER AFTER 30 MIN*/
090000       STATUS(010000)                 /* WRITE SMF STATS AFTER 1 HOUR*/
100090       JWT(0100)                      /* 522 AFTER 1 HOUR RJT6/09 */
110087       SID(SKK1)                      /* SYSTEM ID IS SKK1  DCF5/14  */
120000       LISTDSN                        /* LIST DATA SET STATUS AT IPL*/
130000       SYS(NOTYPE(14:19,62:69),EXITS(IEFU83,IEFU84,IEFACTRT,IEFUJV,
140000                      IEFUSI,IEFUJI,IEFUTL,IEFU29),NOINTERVAL,NODETAIL)
150000
160000       /* WRITE ALL EXCEPT DATA MANAGEMENT RECORDS, TAKE ALL KNOWN
170000          EXITS, NOTE: JES EXITS CONTROLED BY JES , THERE IS NO
180000          DEFAULT INTERVAL RECORDS WRITTEN AND ONLY SUMMARY T32
190000          RECORDS AS A DEFAULT FOR TSO */
200000
210091       SUBSYS(STC,EXITS(IEFACTRT,IEFUJI,IEFUSI),NOINTERVAL,NODETAIL)
270084    /* DOC:    THIS MEMBER OF 'SYS1.PARMLIB' CONTAINS PARAMETERS THAT
280084    /*         DEFINE HOW THE SMF FACILITY WILL BE USED.
290084    /*
AS151001 END OF DATA
READY
READY
```


Revised: March 9, 1983

PORTIONS OF A SYS1 RULE

```
*ACCESS RULE SYS1 STORED BY VMISO ON 10/09/84-17:57
$KEY(SYS1)
%CHANGE SH***TSSJEC
%CHANGE SH***TSSRJT
 ABLG- UID(SHSM*TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 ABLG- UID(SHS*MTSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 ACF.BK- UID(SHM**ADMJM) READ(A) EXEC(A)
 ACF-.- NEXTKEY(##ACF##)
 AGENLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(L) EXEC(A)
 AGENLIB READ(A) EXEC(A)
 AHELP UID(SH***TSS) READ(A) WRITE(L) EXEC(A)
 AHELP UID(SH) READ(A) EXEC(A)
 AMACLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(L) EXEC(A)
 AMACLIB READ(A) EXEC(A)
 AMODGEN UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(L) EXEC(A)
 AMODGEN READ(A) EXEC(A)
 AOS** UID(SHSM*TSS) READ(A) WRITE(A) EXEC(A)
 AOS** UID(SHS*MTSS) READ(A) WRITE(A) EXEC(A)
 AOS** UID(SHS**SSD) READ(A) EXEC(A)
 AOS** UID(SHS**TSS) READ(A) EXEC(A)
 ARMTMAC UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(L) EXEC(A)
 ARMTMAC READ(A) EXEC(A)
 BLGDB.SD- UID(SHS**TSS) READ(A) WRITE(A) EXEC(A)
 BLGDB.SD- UID(SH) READ(A) WRITE(A) EXEC(A)
 BLGFMT UID(SHSM*TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 BLGFMT UID(SHS*MTSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 BLGOZS.VSAM UID(SHS**TSS) READ(A) WRITE(A) EXEC(A)
 BLGOZS.VSAM UID(SH) READ(A) EXEC(A)
 BLGOZSG.VSAM UID(SHS**TSS) READ(A) WRITE(A) EXEC(A)
 BLGOZSG.VSAM UID(SH) READ(A) EXEC(A)
 BLGPNLS UID(SHSM*TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 BLGPNLS UID(SHS*MTSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 BRODCAST UID(SHM) LIB(LINKLIB) PGM(ACCOUNT) READ(A) WRITE(A) EXEC(A)
 BRODCAST UID(SHT**ACFSTCID) READ(A) WRITE(A) EXEC(A)
 BRODCAST UID(SH) LIB(LINKLIB) PGM(ACF*****) READ(A) WRITE(A) EXEC(A)
 BRODCAST UID(SH) LIB(LINKLIB) PGM(LISTB*) READ(A) WRITE(A) EXEC(A)
 BRODCAST UID(SH) LIB(LINKLIB) PGM(S***) READ(A) WRITE(A) EXEC(A)
 CICSLIB UID(SHM) READ(A) EXEC(A)
 CICSLIB UID(SHS**SSD) READ(A) EXEC(A)
 CICSLIB UID(SHS**TSS) READ(A) EXEC(A)
 CMDLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 CMDLIB UID(SH) READ(A) EXEC(A)
 DUMP** UID(SHM) READ(A) EXEC(A)
 DUMP** UID(SHS**SSD) READ(A) EXEC(A)
 DUMP** UID(SHS**TSS) READ(A) EXEC(A)
 DUMP**.- UID(*****SSDRSO3) READ(L) WRITE(L) ALLOC(L) EXEC(L)
 EP.LOAD UID(SHT**LOAD3704) READ(A) EXEC(A)
 HASPACE UID(SH) LIB(LINKLIB) PGM(Q2) READ(A) EXEC(A)
 HASPCKPT UID(SH) LIB(LINKLIB) PGM(Q2) READ(A) EXEC(A)
 HASPSRC UID(SH***SSD) READ(A) EXEC(A)
 HASPSRC UID(SH***TSS) READ(A) EXEC(A)
 HELP UID(SH***TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 HELP READ(A) EXEC(A)
 IDPFDR UID(SH) READ(A) WRITE(L) EXEC(A)
```


Revised: 10/10/84

PORTIONS OF A SYS1 RULE

```
 LINKLIB VOL(VS1ALT) UID(SHS**SSDJLF) READ(A) WRITE(A) EXEC(A)
 LINKLIB VOL(VS1ALT) UID(SHS**SSDLH) READ(A) WRITE(A) EXEC(A)
 LINKLIB UID(SHM**SSD) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 LINKLIB UID(SHM**SSD) READ(A) WRITE(L) EXEC(A)
 LINKLIB UID(SHM**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 LINKLIB UID(SHM**TSS) READ(A) WRITE(L) EXEC(A)
 LINKLIB UID(SHS**SSD) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 LINKLIB UID(SHS**SSD) READ(A) WRITE(L) EXEC(A)
 LINKLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 LINKLIB UID(SHS**TSS) READ(A) WRITE(L) EXEC(A)
 LINKLIB READ(A) EXEC(A)
 LOGREC UID(SHT**LOGREC) READ(A) WRITE(A) EXEC(A)
 LPALIB UID(SHM**SSD) READ(A) WRITE(L) EXEC(A)
 LPALIB UID(SHM**TSS) READ(A) WRITE(L) EXEC(A)
 LPALIB UID(SHM) READ(A) EXEC(A)
 LPALIB UID(SHS**SSD) READ(A) WRITE(L) EXEC(A)
 LPALIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 LPALIB UID(SHS**TSS) READ(A) WRITE(L) EXEC(A)
 LPALIB UID(S) READ(A) EXEC(A)
 MACLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 MACLIB READ(A) EXEC(A)
 MAN* UID(SHM) READ(A) EXEC(A)
 MAN* UID(SHS) READ(A) EXEC(A)
 MAN* UID(SHT**SMF) READ(A) WRITE(A) EXEC(A)
 NUCLEUS UID(SHSC*SSD) READ(A) WRITE(L) EXEC(A)
 NUCLEUS UID(SHSC*TSS) READ(A) WRITE(L) EXEC(A)
 NUCLEUS UID(SHS*CSSD) READ(A) WRITE(L) EXEC(A)
 NUCLEUS UID(SHS*CTSS) READ(A) WRITE(L) EXEC(A)
 NUCLEUS UID(SHS**NPD) READ(A) EXEC(A)
 NUCLEUS UID(SHS**SSD) READ(A) EXEC(A)
 NUCLEUS UID(SHS**TSS) READ(A) EXEC(A)
 PARMLIB VOL(VS1ALT) UID(SHS**SSD) READ(A) WRITE(L) EXEC(A)
 PARMLIB UID(SHM) READ(A) WRITE(L) EXEC(A)
 PARMLIB UID(SHS**TSSPDC) READ(A) EXEC(A)
 PARMLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 PARMLIB UID(SHS**TSS) READ(A) WRITE(L) EXEC(A)
 PARMLIB UID(SHS) READ(A) EXEC(A)
 PARMLIB UID(SHT) READ(A) EXEC(A)
 PLIBASE UID(SH) READ(A) EXEC(A)
 PPOPTION UID(SHM) READ(A) EXEC(A)
 PPOPTION UID(SHS**SSD) READ(A) EXEC(A)
 PPOPTION UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) -
EXEC(A)
 PPOPTION UID(SHS**TSS) READ(A) WRITE(L) EXEC(A)
 PROCLIB VOL(VS1ALT) UID(SHS**SSD) READ(A) WRITE(L) EXEC(A)
 PROCLIB UID(SHM) READ(A) EXEC(A)
 PROCLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 PROCLIB UID(SHS**TSS) READ(A) WRITE(L) EXEC(A)
 PROCLIB UID(SHS) READ(A) EXEC(A)
 PROCLIB UID(SHT) READ(A) EXEC(A)
 PUTPDS UID(SHSM*TSS) READ(A) WRITE(A) ALLOC(L) EXEC(A)
 PUTPDS UID(SHS*MTSS) READ(A) WRITE(A) ALLOC(L) EXEC(A)
 PUTPDS UID(SHS**SSD) READ(A) EXEC(A)
 PUTPDS UID(SHS**TSS) READ(A) EXEC(A)
```


Revised: 10/10/84

PORTIONS OF A SYS1 RULE

```
 PVTMACS UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 PVTMACS READ(A) EXEC(A)
 RESETJ UID(SHS*ATSS) READ(A) WRITE(L) EXEC(A)
 SAS-.- READ(A) EXEC(A)
 SMFDUMP.DATA UID(SHM) READ(A) EXEC(A)
 SMFDUMP.DATA UID(SHS) READ(A) EXEC(A)
 SMFDUMP.DATA UID(SHT**SMF) READ(A) WRITE(A) ALLOC(A) EXEC(A)
 SMPMVS.- UID(SHSM*TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) -
ALLOC(A) EXEC(A)
 SMPMVS.- UID(SHS*MTSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) -
ALLOC(A) EXEC(A)
 SMP- UID(SHM**TSS) READ(A) EXEC(A)
 SMP- UID(SHM) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 SMP- UID(SHS**NPD) READ(A) EXEC(A)
 SMP- UID(SHS**SSD) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 SMP- UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 SMP- UID(SHS**TSS) READ(A) EXEC(A)
 SMP- UID(SHX**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(A) EXEC(A)
 SMP- UID(SH***SSD) READ(A) EXEC(A)
 SORTLIB READ(A) EXEC(A)
 SVCLIB VOL(VS1ALT) UID(SHS**SSDJLF) READ(A) WRITE(L) EXEC(A)
 SVCLIB VOL(VS1ALT) UID(SHS**SSDLH) READ(A) WRITE(L) EXEC(A)
 SVCLIB UID(SHS**TSS) LIB(LINKLIB) PGM(HMASMP) READ(A) WRITE(L) EXEC(A)
 SVCLIB READ(A) EXEC(A)
 TUMSO** UID(SHM) READ(A) EXEC(A)
 TUMSO** UID(SHS) READ(A) EXEC(A)
 UADS UID(SH) LIB(LINKLIB) PGM(ACCOUNT) READ(L) WRITE(L) EXEC(A)
 UADS UID(*)
 VTAMLIB UID(SH*M*TSS) READ(A) WRITE(A) EXEC(A)
 VTAMLIB UID(SH**MTSS) READ(A) WRITE(A) EXEC(A)
 VTAMLST UID(SHM) READ(A) EXEC(A)
 VTAMLST UID(SHS**SSD) READ(A) EXEC(A)
 VTAM- UID(SHT) READ(A) EXEC(A)
 V310.- UID(SHM**SSD) READ(A) WRITE(A) EXEC(A)
 V310.- UID(SHM**TSS) READ(A) WRITE(A) EXEC(A)
 V310.- UID(SHS**SSD) READ(A) WRITE(A) EXEC(A)
 V310.- UID(SHS**TSS) READ(A) WRITE(A) EXEC(A)
 - UID(SH***SSD) READ(A) EXEC(A)
 - UID(SH***TSS) READ(A) EXEC(A)
 - UID(SH) EXEC(A)
```


Revised: 10/10/84

REFERENCES FROM AUERBACH PUBLICATIONS

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1) *Operator's Library: OS/VS2 MVS System Commands*

2) *OS/VS2 MVS Programming Library: Service Aids*

3) *OS/VS2 MVS Overview*

4) *OS/VS2 System Programming Library: Job Management*

5) *OS/VS2 System Programming Library: Initialization and Tuning Guide*

6) *OS/VS2 System Programming Library: Supervisor*

7) *OS/VS2 System Programming Library: System Generation Reference*

8) *OS/VS2 MVS System Programming Library: System Management Facilities*

9) *OS/VS2 System Modification Program (SMP) System Programmer's Guide*

5/3/83

LOGONID/UID EXERCISE
(Answer Key)

1. C

2. C

3. A

4. C

5. B

6. C

7. C

8. A

9. A

10. C

11. A

12. A

13. LIST * or LIST Logonid

14. LIST LIKE(T-)

15. B

16. ACF
    SET LID
    INSERT USERO1 NAME(ACF2 STUDENTS) -
    PHONE(EXT. 240)
    END

17. ACF
    SET LID
    INSERT USING(USERO1) USERO2 NAME(JOHN HENRY) -
    PHONE(EXT. 390)
    END

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LOGONID/UID EXERCISE

1. All information about a user is stored in ACF2's:

   a) Field Definition Record.

   b) Information Storage Database.

   c) Logonid Database.

2. There is normally one Logonid record for each:

   a) Field described in the ACFFDR.

   b) User attribute.

   c) User.

3. If you have the authority to create, delete, and modify both access rules on the Access Rules Database and Logonid records on the Logonid Database, you have:

   a) SECURITY and ACCOUNT authorization.

   b) ACCOUNT and AUDIT authorization.

   c) SECURITY and AUDIT authorization.

4. If you can only decompile a rule or look at any Logonid (no change authority), you have:

   a) SECURITY authorization.

   b) ACCOUNT authorization.

   c) AUDIT authorization.

5. Which field defines data ownership and allows users to gain access to their datasets without rule interpretation?

   a) SECURITY

   b) PREFIX

   c) RULEVLD

6. This special user attribute allows a user to continue processing regardless of access rule violations:

   a) RULEVLD.

   b) DUMPAUTH.

   c) NON-CNCL.

7. Users can gain access to a system outside their normal time/shift/zone constraints through which parameters:

   a) NON-CNCL.

   b) SHIFT.

   c) LOGSHIFT.

8. The following parameter can be used to produce an audit trail of dataset accesses:

   a) TRACE.

   b) AUDIT.

   c) MONITOR.

9. AUTODUMP should be used:

   a) When requested by SKK for debugging purposes.

   b) Whenever you use program pathing.

   c) Neither A nor B.

10. IMS and CICS user Logonid validation takes place during:

    a) ACF2 initialization.

    b) IMS and CICS initialization.

    c) IMS and CICS signons.

11. A UID string for an individual user is:

    a) Constructed dynamically at job initiation.

    b) Contained as a single field in the Logonid Database.

    c) Contained in the Information Storage Database.

12. If a job contains more than one //*LOGONID card:

    a) ACF2 processes the first one it comes to.

    b) ACF2 processes the last one it comes to.

    c) Unpredictable results.

13. Show the ACF commands you would use to display your own Logonid record.

    LIST #OFHANS LIST *.

14. What commands would you use to display all Logonid records that begin with 'T'?

    LIST LIKE(T-) LIST LIKE(T*******)

15. What subcommand is used to create a new Logonid record?

    a) BUILD

    b) INSERT

    c) ADD

    d) CREATE

16. Show the ACF commands and parameters needed to create the following Logonid:

    (1) LID = USER01
    (2) NAME = ACF2 STUDENTS
    (3) PHONE = EXT. 240

    ACF SETUID
    INSERT USING(USER01) NAME(ACF2 STUDENTS) PHONE(240)

17. Show the ACF commands and parameters needed to create the following Logonid using USER01 as a prototype:

    (1) LID = USER02
    (2) NAME = JOHN HENRY
    (3) PHONE = EXT. 390

    ACF
    SET LID
    INSERT USING(USER01) USER02
    JOHN HENRY 390

ACCESS RULE EXERCISE

1. Access Rules:

   a) Identify users of the system.

   b) Determine user responsibilities.

   c) Allow for the controlled sharing of datasets.

2. The Access Rules Database normally contains one rule set for each:

   a) Dataset name in the system.

   b) Program name and dataset name.

   c) DSN high level index.

3. A rule set must be interpreted if:

   a) The dataset is a temporary DSN.

   b) The user owns the prefix (the high level index) and the RULEVLD indicator is <u>not</u> on.

   c) The user <u>does not own</u> the high level index of a non-temporary DSN.

4. Access rule sets are compiled much like a program. After compilation, rule sets are interpreted by ACF2:

   a) From most general to most specific environment.

   b) From most specific to most general environment.

   c) Sequentially (1st rule coded on input = 1st rule interpreted).

Use the following rule set to answer questions 5 through 9.

Rule Entry	Rule Set
(1)	$KEY(PAYROLL)
(2)	*BC.LOAD EXEC(A)
(3)	AB- UID(PAYDEPT) R(A) W(A)
(4)	- UID(PAY-) R(A)
(5)	ABC.MASTER UID(PAYMGR) LIB(ABC.LOAD) PGM(PAY01) R(A) W(L)

5. Which of the following dataset names would match rule entry number (2) in the sample rule set? (Mark all that apply)

   a) PAYROLL.BC.LOAD

   b) PAYROLL.ABC.LOAD

   c) PAYROLL.AABC.LOAD

6. Which of the following dataset names would match rule entry number (3) in the sample rule set? (Mark all that apply)

   a) PAYROLL.ABC.LOAD

   b) PAYROLL.ABC

   c) PAYROLL.AB

7. Which of the following privileges would match rule entry number (2) in the sample rule set?

   a) Execute only

   b) Read and execute

   c) Read, execute and dump

8. Which rule entry is an example of program pathing?

   a) Rule entry (3)

   b) Rule entry (4)

   c) Rule entry (5)

9. When the rule set is compiled and stored, rule entries will be sorted by ACF2 so that the most specific rule entry is first and the least specific is last. For this sample, the existing rule entries (2) through (5) would wind up resorted to what sequence?

   a) (2), (3), (4), (5)

   b) (5), (3), (2), (4)

   c) (5), (2), (3), (4)

10. When you code access rules using program pathing, you should always specify:

    a) The input source (terminal).

    b) The jobname of the JCL that executes the program.

    c) The program library name as well as the program name.

11. The $PREFIX parameter can be used along with NEXTKEY to:

    a) Perform program pathing.

    b) Split a high level index into multiple rule sets.

    c) Allow access without rule interpretation.

12. $USERDATA is usually used in conjunction with:

    a) Multiple rule sets for a single high level index.

    b) A violation exit.

    c) Program pathing.

13. Volume level rules are required when:

    a) The volume is a resident volume.

    b) The volume is defined in the secured volume list (SECVOLS).

    c) The $USERDATA parameter and exit is used.

14. When CHANGE is coded in the OPTS RECORD, the $CHANGE parameter is used to:

    a) Bypass rule interpretation.

    b) Allow "non-owners" of a rule set to modify the rule set.

    c) Keep track of the number of lines that changed in a rule set.

15. Show the ACF commands needed to create an access rule to allow all users with a UID string of CMOPR read access to OPER.SCHEDULE.DATA.

ACF

SET RULE

COMPILE *

$KEY(OPER)

SCHEDULE.DATA UID(CMOPR) R(A)

(BLANK LINE)

STORE

END

ACCESS RULE EXERCISE
(Answer Key)

1. C
2. C
3. C
4. B
5. B
6. B, C
7. A
8. C
9. B
10. C
11. B
12. B
13. B
14. B
15. ACF
    SET RULE
    COMPILE *
    $KEY(OPER)
     SCHEDULE.DATA UID(CMOPR) READ(A)
    (BLANK LINE)
    STORE
    END

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INFORMATION STORAGE EXERCISE

1. Any information stored by ACF2 that is not a dataset access rule or a Logonid record, is stored:

   a) In the Information Storage Database.

   b) In the Access Rules Database.

   c) In the Logonid Database.

2. The Information Storage Database can be used to store up to approximately 4000 bytes of information per record. The key length is:

   a) 8 Bytes.

   b) 24 Bytes.

   c) 44 Bytes.

3. The Information Storage Database is broken into classes. Which of the following are ACF2 defined classes? (Mark all that apply)

   a) ENTRY

   b) RESOURCE

   c) ZON

   d) SCOPE

4. Classes are further broken into types. Identify which class E) Entry, R) Resource or T) Shift each of the following types apply to:

   a) SRC (Source) and SGP (Source Groups) E

   b) ITR (IMS Transaction) and CKC (CICS Transaction) R

   c) SFT (Shift) and ZON (Zone) T

5. For which class are you most likely to define your own types?

   a) ENTRY

   b) RESOURCE

   c) SHIFT

6. Generalized resource rules:

   a) Are compiled like access rules or programs.

   b) Are inserted like Logonid records.

   c) Neither A nor B.

7. Unlike the keys for dataset access rules, the keys for generalized resource rules can be masked. In order to process this efficiently, ACF2 requires:

   a) No more than 100 rules per resource type.

   b) An in-storage directory for all resource names in a given resource type.

   c) Resource names of 4 characters or less.

8. If generalized resource rule directories are made resident at ACF2 initialization time, their associated rule sets will:

   a) Also be made resident at ACF2 initialization time.

   b) Be made resident at some time.

   c) Remain transient.

   d) Either A, B, or C based on FDR options.

9. TAC is the type used when writing generalized resource rules for TSO Accounts. Which of the following fields of the Logonid record affect account processing? (Mark all that apply)

   a) PMT-ACCT

   b) LGN-ACCT

   c) VLD-PROC

   d) VLD-ACCT

   e) TSOACCT

   f) ACCOUNT

10. Generalized resource directories specified in the RESDIR record are built in:

a) SQA.

b) LSQA.

c) CSA.

11. Shift names can be a maximum of:

a) 3 characters long.

b) 8 characters long.

c) 44 characters long.

12. Zone names can be a maximum of:

a) 3 characters long.

b) 8 characters long.

c) 44 characters long.

13. An account manager having no LIDSCOPE, UIDSCOPE or SCPLIST in his Logonid record is considered by ACF2 as "unrestricted". What fields in the Logonid record for a Security Officer would cause him to be considered "restricted"? (Mark all that apply)

a) DSNSCOPE

b) LIDSCOPE

c) UIDSCOPE

d) SCPLIST

14. For each of the following, indicate whether you can specify: S) Shift, Z) ZONE, or L) LOGSHIFT. (Indicate all that apply).

a) Logonid record

b) Generalized resource rule

c) Dataset access rule

15. Based on the following ACF commands:

```
ACF
SET ENTRY(SRC)
INSERT UCB-021 NEWDATA(TEST1)
INSERT UCB-022 NEWDATA(TEST2)
INSERT UCB-031 NEWDATA(PROD1)
INSERT UCB-032 NEWDATA(PROD2)

SET ENTRY(SGP)
INSERT ALLTEST NEWDATA(TEST1)
CHANGE ALLTEST NEWDATA(TEST2)
INSERT ALLPROD NEWDATA(PROD1)
CHANGE ALLPROD NEWDATA(PROD2)
INSERT ALLTUBES NEWDATA(ALLTEST)
CHANGE ALLTUBES NEWDATA(ALLPROD)
```

Match the logical source or source group names with the physical sources specified.

D	ALLTEST	A) UCB-031,UCB-032
C	TEST1	B) UCB-021,UCB-022,UCB-031,UCB-032
B	ALLTUBES	C) UCB-021
A	ALLPROD	D) UCB-021,UCB-022

16. Show the ACF commands needed to create a generalized resource rule to allow all users with a UID string of CMICK access to IMS transaction ITRAN1 but log all accesses.

ACF Complete *

SET RESOURCE(ITR)
$KEY(ITRAN1) TYPE(ITR) -
UID(CMICK) LOG

17. Show the ACF commands needed to create the shift record called DAYSFT based on the following:

(1) Monday through Friday
(2) 8:00 am through 4:00 pm
(3) Deny access during lunch - noon through 1:00 pm

ACF
SET SHIFT(SHF)
[illegible]
[illegible]
INSERT

INFORMATION STORAGE EXERCISE (Answer Key)

1. A

2. C

3. A, B, D

4. A) E
   B) R
   C) T

5. B

6. A

7. B

8. D

9. A, B, D, E

10. C

11. B

12. A

13. A, D

14. A) Logonid Record S, Z, L
    B) Generalized Resource Rule S
    C) Dataset Access Rule S

15. D ALLTEST
    C TEST1
    B ALLTUBES
    A ALLPROD

16.
```
ACF
SET RESOURCE(ITR)
COMPILE *
$KEY(ITRAN1) TYPE(ITR)
 UID(CMICK) LOG
(BLANK LINE)
STORE
END
```

17.
```
ACF
SET SHIFT(SFT)
INSERT DAYSFT DAYS(MO,TU,WE,TH,FR) -
TIME(0800-1600) NTIME(1200-1300)
END
```


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SYSTEM OPTIONS EXERCISE
(Answer Key)

1. C

2. C @BLPPGM B @MAINT
   D @LOGPGM A @PPGM

3. C

4. V DSN=ABC.BACKUP
   D DSN=ABC.PAYROLL
   N DSN=XYZ.INSTALL

5. C

6. B

7. B

8. D

9. B

10. C

11. A

12. C

13. B

14. C

15. A, B, C, D

16. B

Revised: 10/10/84

SYSTEM OPTIONS EXERCISE

1. The field definition record (ACFFDR) is the module that each installation modifies to customize the ACF2 system. Changes to the ACFFDR become effective:

   a) At midnight.

   b) Immediately after you assemble and link the ACFFDR.

   c) The next time you IPL with a CLPA or MLPA after you have assembled and linked the ACFFDR.

2. Match the following GSO Records with their functions.

   _____ BLPPGM _____ MAINT

   _____ LOGPGM _____ PPGM

   a) Function: Defines programs which can only be executed by users with Security Officer privileges with unlimited scope, or by Logonids with the non-cancellable attribute (NON-CNCL). Normally, these would be APF authorized programs that bypass the system integrity features of the operating system and, therefore, bypass security systems.

   b) Function: Define the program, residing in the specified library, executed by the specified Logonid, that ACF2 is to consider an approved data center operations environment (disk compression, archival, etc.). When this combined environment is encountered, ACF2 rule validation is bypassed, which also eliminates the creation of SMF logging records and queueing of access rule sets in the address space. Any Logonid specified must also be defined as non-cancellable by ACF2, by turning on the NON-CNCL attribute, or have MAINT in the Logonid record. If the Logonid is not marked NON-CNCL or MAINT, then this table will not be checked.

   c) Function: Define the programs and their libraries that ACF2 is to consider valid for tape bypass label access. A specified program from the designated library will be allowed BLP access even if the current user's Logonid does not have TAPE-BLP or TAPE-LBL authority.

   d) Function: Define the set of programs for which all dataset accesses are to be logged. These are programs for which the installation may wish to have an audit trail of their activity even though they do not wish to restrict access to them via the GSO Record described in a).

3. ACF2 creates sequential backup copies of its 3 VSAM files:

   a) At the time specified in the BACKUP Record.

   b) When the console command "F ACF2,BACKUP" is issued.

   c) When either A or B occurs.

4. If the GSO records are coded with OPTS NOTAPEDSN, RESVOLS VOLMASK(******), and SECVOLS VOLMASK(06****,07****), indicate whether each of the following would be protected at: (D) the dataset name level, (V) the volume level, or (N) no protection at all.

   _____ DSN=ABC.BACKUP,UNIT=TAPE,VOL=SER=060100
   _____ DSN=ABC.PAYROLL,UNIT=DISK,VOL=SER=PAC001
   _____ DSN=XYZ.INSTALL,UNIT=TAPE,VOL=SER=TAPE01

5. The PSWD Record defines various user password options and controls. The option that specifies the maximum number of invalid password attempts to be allowed in a single day before ACF2 will deny all accesses to the system by a Logonid is:

   a) MAXTRY.

   b) MAXVIO.

   c) PASSLMT.

6. The default ACFFDR contains over 100 @CFDE macros. These are used to:

   a) Specify ACF2 system options.

   b) Specify the fields in each user's Logonid record.

   c) Specify resident rule sets.

7. ACF2 monitors dataset accesses for started tasks:

   a) By default.

   b) If OPTS Specifies STC

   c) Never.

8. Which of the following is not a mode of ACF2?

   a) QUIET

   b) LOG

   c) WARN

   d) ALLOW

9. The GSO Record used to specify the module names for installation written exits is:

   a) OPTS.

   b) EXITS.

   c) CSVC.

10. Default Logonid's can be specified in the OPTS Record for:

    a) Batch jobs.

    b) Started tasks.

    c) Both.

11. How many SMF record numbers are specified in the @SMF Macro?

    a) 1

    b) 8

    c) 220

12. ACF2 by default comes with a minimum password length of one and should only be modified after the UADS dataset has been converted to ACF2's Logonid database. After conversion, if we change the minimum length to 3, those existing users with a password of length 2 or 1, will:

    a) Be unable to access the system.

    b) Be forced to change their passwords on the next system access.

    c) Be forced to specify a longer password the next time they change it.

13. The default ACFFDR specifies:

```
@DDSN   PRIMARY,
      RULE='SYS1.ACF.RULES'
      LID='SYS1.ACF.LOGONIDS',
      INFO='SYS1.ACF.INFOSTG',
      BRULE='SYS1.ACF.BKRULES',
      BLID='SYS1.ACF.BKLIDS',
      BINFO='SYS1.ACF.BKINFO'
@DDSN   ALT,
      RULE='SYS1.ACF.ALTRULES',
      LID='SYS1.ACF.ALTLIDS',
      INFO='SYS1.ACF.ALTINFO',
      BRULE='SYS1.ACF.BKRULES',
      BLID='SYS1.ACF.BKLIDS',
      BINFO='SYS1.ACF.BKINFO'
```

If we start ACF2 with the command S ACF2,PARM='DDSNS(ALT)', what VSAM file will be used for the access rules database?

a) SYS1.ACF.RULES

b) SYS1.ACF.ALTRULES

c) SYS1.ACF.BKRULES

14. Referring to #13, what sequential dataset will be used to backup the access rules database?

a) SYS1.ACF.RULES

b) SYS1.ACF.ALTRULES

c) SYS1.ACF.BKRULES

15. Centralized vs. decentralized security can be affected by which of the following fields. (Mark all that apply)

a) CENTRAL

b) CHANGE

c) DECOMP

d) CFDE ENTRIES

16. Installation of the ACF2/IMS and ACF2/CICS Interfaces:

a) Is automatic with the installation of ACF2.

b) Is optional, but requires ACF2 on the main system.

c) Can be done on a non-ACF2 system.

APPENDIX A

ACF2 SPECIAL ATTRIBUTES

☆ *SECURITY* (SECURITY OFFICER)

☆ *ACCOUNT* (USER ACCOUNT MANAGER)

☆ *AUDITOR* (EDP AUDITOR)

☆ *CONSULT* (USER/DP CONSULTANT)

☆ *LEADER* (GROUP OR TEAM LEADER)

☆ *USER* (EVERYBODY)

☆ *LOCAL-CODE(S)* (OTHERS CREATED LOCALLY)

USERS WITH SECURITY ATTRIBUTE

- CAN WRITE ACCESS RULES FOR KEYS MATCHING DSNSCOPE/SCPLIST

- CAN LIST/UPDATE FIELDS EXISTING IN LOGONID RECORDS
  - PER @CFDE LIST, ALTER, FLAGS, OR AUTH FIELD PARMS
  - WITHIN LIDSCOPE/UIDSCOPE/SCPLIST

- CAN ACCESS DATASETS/VOLUMES/RESOURCES NOT AUTHORIZED VIA RULES
  - WITHIN DSNSCOPE/SCPLIST
  - UNLESS RULEVLD PRESENT IN LOGONID

- CAN USE ALL SHOW COMMANDS

- IF UNRESTRICTED (NO DSNSCOPE OR SCPLIST), CAN ALSO EXECUTE PROTECTED PROGRAMS (PPGM)

- CAN CREATE/UPDATE INFORMATION STORAGE RECORDS
  - WITHIN INFORMATION STORAGE SCOPE IF SCPLIST PRESENT
  - ALL RECORDS IF NO DSNSCOPE OR SCPLIST

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USERS WITH ACCOUNT ATTRIBUTE

- CAN CREATE NEW LOGONID RECORDS
  - WITHIN LIDSCOPE/UIDSCOPE/SCPLIST
- CAN LIST/UPDATE LOGONID FIELDS
  - PER @CFDE LIST, ALTER, OR AUTH FIELD PARMS
  - WITHIN LIDSCOPE/UIDSCOPE/SCPLIST
- CAN USE ALL SHOW COMMANDS
- IF UNRESTRICTED (NO LIDSCOPE/UIDSCOPE/SCPLIST) CAN ALSO EXECUTE SYNCH COMMAND

USERS WITH AUDITOR ATTRIBUTE

- CAN LIST/DECOMPILE/DISPLAY ALL ACF2 RECORDS
  - ANY RULE MATCHING DSNSCOPE/SCPLIST (ASSUMES DECOMP = AUDITOR)
  - ANY LOGONID WITHIN LIDSCOPE, UIDSCOPE, AND SCPLIST, AND ANY FIELDS WITHIN LOGONID RECORDS PER @CFDE LIST PARMS
  - ANY INFORMATION STORAGE RECORD WITHIN INF SCOPE PER SCPLIST
  - SYSTEM OPTIONS (VIA SHOW SUBCOMMANDS)
  - ALL REPORTS (WITHIN SCOPES)

- CANNOT CHANGE ANYTHING UNLESS SPECIFICALLY GIVEN UPDATE AUTHORITY
  - TO A RULE, VIA %CHANGE OR VIA CENTRAL=NO AND PREFIX
  - TO EXISTING LOGONID RECORDS VIA @CFDE ALTER OR AUTH FIELD PARMS AND WITHIN LIDSCOPE/UIDSCOPE/SCPLIST

USERS WITH CONSULT ATTRIBUTE

- CAN LIST RULES ONLY IF DECOMP=CONSULT AND WITHIN DSNSCOPE
- CAN LIST/CHANGE FIELDS IN EXISTING LOGONID RECORDS
  - PER @CFDE ALTER, LIST, OR AUTH FIELD PARMS
  - WITHIN LIDSCOPE/UIDSCOPE/SCPLIST

USERS WITH LEADER ATTRIBUTE

- CAN LIST RULES ONLY IF DECOMP=LEADER AND WITHIN DSNSCOPE
- CAN LIST/CHANGE FIELDS IN EXISTING LOGONID RECORDS
  - PER @CFDE ALTER, LIST, OR AUTH FIELD PARMS
  - WITHIN LIDSCOPE/UIDSCOPE/SCPLIST

NORMAL USERS

(NO OTHER SPECIAL PRIVILEGES)

- CAN CREATE/CHANGE/DELETE ACCESS RULES
  - WHICH MATCH THEIR PREFIX VALUE IF CENTRAL=NO AND THEY DO NOT HAVE NO-STORE
  - IF THEIR UID MATCHES %CHANGE FOR THE RULE (AND NO NO-STORE OR CHANGE=NO)
- CAN LIST/CHANGE FIELDS IN THEIR OWN LOGONID RECORD, PER @CFDE ALTER, LIST, OR AUTH FIELD PARMS
- NOTE: ALL LOGONIDS DEFINED TO ACF2 ARE AUTOMATICALLY CONSIDERED TO HAVE THE USER ATTRIBUTE AT ALL TIMES.

APPENDIX B

APPENDIX B - LOGONID RECORD FIELDS

The Logonid record fields listed below come predefined with ACF2. They are arranged by the group number assigned to each in the default copy of the ACFFDR that comes with the system. ACF2 attributes required to display and/or alter each field are indicated; these attributes are defined in the default ACFFDR. They may not necessarily be the ones currently active for your installation. The latest ACFFDR assembly values must be checked to determine if there are any changes, and also to identify any additional fields which are defined (added to ACF2) locally. Deviations from these ACF2 defaults should be examined to see if the change is appropriate. Each valid Logonid record field will have a corresponding @CFDE macro entry in the ACFFDR.

Key to attributes required, as noted on the following lists:

S	Security Officer (any)
S*	Unrestricted Security Officer Only (@CFDE FLAGS=RESTRICT)
Ac	Account Manager
Au	Auditor
L	Leader
C	Consultant
U	Normal User

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DEFAULT SETTINGS

FIELD NAME	CONTENT	ALTER						DISPLAY					
		S	Ac	Au	L	C	U	S	Ac	Au	L	C	U
(0) IDENTIFICATION SECTION													
LID	Logonid	(Ac)						S	Ac	Au	L	C	U
UID	User Id String (pseudo field)	See individual fields						S	Ac	Au	L	C	U
NAME	User's Name	S	Ac					S	Ac	Au	L	C	U
PASSWORD	Password	S	Ac				U	NONE					
PHONE	Phone Number	S	Ac		L			S	Ac	Au	L	C	U
(1) CANCEL/SUSPEND SECTION													
CANCEL	Cancel Status	S	Ac					S	Ac	Au	L	C	U
CSDATE	Cancel/Suspend Date							S	Ac	Au			
CSWHO	Who Cancelled/ Suspended							S	Ac	Au			
MONITOR	Monitor Status	S						S		Au			
MON-LOG	SMF record will be written	S						S		Au			
PSWD-EXP	Password is Expired	S	Ac					S	Ac	Au	L	C	U
SUSPEND	Suspend Status	S	Ac		L			S	Ac	Au	L	C	U
TRACE	Trace Status	S						S		Au			
TSO-TRC	TSO Trace Status	S						S		Au			
(2) PRIVILEGES SECTION													
ACCOUNT	Account Mgr. Indicator	S*						S	Ac	Au			
AUDIT	Auditor Indicator	S*						S	Ac	Au			
AUTODUMP	ACF2 SVC Dump	S*						S	Ac	Au	L	C	U

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FIELD NAME	CONTENT	ALTER						DISPLAY					
		S	Ac	Au	L	C	U	S	Ac	Au	L	C	U
CICS	Auth to use CICS	S	Ac					S	Ac	Au	L	C	U
CONSULT	Consultant Indicator	S	Ac					S	Ac	Au		C	
DSNSCOPE	DSN Scope for Security/Account	S*						S	Ac	Au	L	C	
DUMPAUTH	User Dump Authorization	S*						S	Ac	Au	L	C	U
EXPIRE	Date LID Suspends	S	Ac					S	Ac	Au	L	C	U
IDMS	Auth. to use IDMS	S						S	Ac	Au	L	C	U
IMS	Auth. to use IMS	S	Ac					S	Ac	Au	L	C	U
JOB	Auth. to enter batch jobs	S	Ac					S	Ac	Au	L	C	U
JOBFROM	Auth. to use JOBFROM	S*						S	Ac	Au	L	C	U
LEADER	Leader indicator	S	Ac					S	Ac	Au	L	C	
LIDSCOPE	LID Scope for S/Ac/Au/L/C	S*						S	Ac	Au	L	C	
LOGSHIFT	Auth outside SHIFT	S*						S	Ac	Au	L	C	U
MAINT	Access to resources without ACF2 validation	S						S	Ac	Au	L	C	U
MUSASS	Multi. User Single Addr. Space System	S*						S	Ac	Au	L	C	U
NO-SMC	Auth to bypass SMC	S*						S	Ac	Au	L	C	U
NO-STORE	Cannot store/ change rules	S*						S	Ac	Au	L	C	U
NON-CNCL	ACF2 not to cancel jobs	S*						S	Ac	Au	L	C	U
PROGRAM	APF-Auth program for submits	S	Ac					S	Ac	Au	L	C	U
READALL	READ access auth.	S*						S	Ac	Au	L	C	U

FIELD NAME	CONTENT	ALTER S	Ac	Au	L	C	U	DISPLAY S	Ac	Au	L	C	U
REFRESH	Auth. to use REFRESH command	S						S	Ac	Au			
RESTRICT	Cannot use passwords	S	Ac					S	Ac	Au	L	C	U
RULEVLD	Must use rule	S*						S	Ac	Au	L	C	U
SCPLIST	Scope list name	S*						S	Ac	Au	L	C	
SECURITY	Security Officer Indicator	S*						S	Ac	Au			
STC	Logonid for STCs only	S*						S	Ac	Au	L	C	U
SUBAUTH	Must be submitted via APF Auth Program	S	Ac					S	Ac	AU	L	C	U
TAPE-BLP	May use BLP	S*						S	Ac	Au	L	C	U
TAPE-LBL	May use limited BLP	S*						S	Ac	Au	L	C	U
TSO	Auth to use TSO	S	Ac					S	Ac	Au	L	C	U
UIDSCOPE	UID Scope for S/Ac/Au/L/C	S*						S	Ac	Au	L	C	
USER	System User	S	Ac					None					

(3) ACCESS SECTION

ACC-CNT	Count of system accesses							S	Ac	Au	L	C	U
ACC-DATE	Date of last access							S	Ac	Au	L	C	U
ACC-SRCE	Last access source							S	Ac	Au	L	C	U
ACC-TIME	Time of last access							S	Ac	Au	L	C	U

FIELD NAME	CONTENT	ALTER S	Ac	Au	L	C	U	DISPLAY S	Ac	Au	L	C	U
(4) MISCELLANEOUS SECTION													
CICSCL	CICS Oper. Class	S	Ac					S	Ac	Au	L	C	U
CICSID	CICS Oper Id	S	Ac					S	Ac	Au	L	C	U
CICSKEY	CICS Key	S	Ac					S	Ac	Au	L	C	U
CICSKEYX	CICS Key Ext.	S	Ac					S	Ac	Au	L	C	U
CICSPRI	CICS Oper. Pri.	S	Ac					S	Ac	Au	L	C	U
CICSRSL	CICS Resource Key	S	Ac					S	Ac	Au	L	C	U
IDLE	Max. Idle Minutes (IMS/CICS)	S	Ac					S	Ac	Au	L	C	U
MAXDAYS	Max. days before password change required	S	Ac					S	Ac	Au	L	C	U
MINDAYS	Min. days before password change allowed	S	Ac					S	Ac	Au	L	C	U
PREFIX	Owned dataset prefix	S*						S	Ac	Au	L	C	U
SHIFT	Shift record name	S	Ac					S	Ac	Au	L	C	U
SOURCE	Authorized input source of system access	S	Ac					S	Ac	Au	L	C	U
TSOCMDS	Module name for Command list	S	Ac					S	Ac	Au	L	C	U
UADSINDX	INDEX name in UADS tree structure	S	Ac					S	Ac	Au	L	C	U
ZONE	Time zone name	S	Ac					S	Ac	Au	L	C	U

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FIELD NAME	CONTENT	ALTER S	Ac	Au	L	C	U	DISPLAY S	Ac	Au	L	C	U
(5) TSO SECTION													
ACCTPRIV	TSO Account Privileges	S						S	Ac	Au	L	C	U
ALLCMDS	Ability to bypass command limiting	S	Ac					S	Ac	Au	L	C	U
ATTR2	PCF control field	S	Ac					S	Ac	Au	L	C	U
CHAR	TSO delete character	S	Ac		L	C	U	S	Ac	Au	L	C	U
CMD-LONG	Command name aliases not accepted	S	Ac					S	Ac	Au	L	C	U
DFT-DEST	Default remote for output	S	Ac					S	Ac	Au	L	C	U
DFT-PFX	Default TSO profile prefix	S	Ac		L	C	U	S	Ac	Au	L	C	U
DFT-SOUT	Default TSO SYSOUT Class	S	Ac		L	C	U	S	Ac	Au	L	C	U
DFT-SUBC	Default TSO submit class	S	Ac		L	C	U	S	Ac	Au	L	C	U
DFT-SUBH	Default TSO Submit Hold Class	S	Ac		L	C	U	S	Ac	Au	L	C	U
DFT-SUBM	Default TSO Submit Msg Class	S	Ac		L	C	U	S	Ac	Au	L	C	U
INTERCOM	Accepts msgs from others	S	Ac		L	C	U	S	Ac	Au	L	C	U
JCL	Can submit jobs from TSO	S	Ac					S	Ac	Au	L	C	U
LGN-ACCT	May specify acct at Logon	S	Ac					S	Ac	Au	L	C	U
LGN-INDX	May specify indx parameter	S	Ac					S	Ac	Au	L	C	U

FIELD NAME	CONTENT	ALTER S	Ac	Au	L	C	U	DISPLAY S	Ac	Au	L	C	U
LGN-MSG	May specify msg class	S	Ac					S	Ac	Au	L	C	U
LGN-PERF	May specify perform group	S	Ac					S	Ac	Au	L	C	U
LGN-PROC	May specify TSO procedure	S	Ac					S	Ac	Au	L	C	U
LGN-RCVR	May use TSO re-recover option	S	Ac					S	Ac	Au	L	C	U
LGN-SIZE	May specify any region size	S	Ac					S	Ac	Au	L	C	U
LGN-TIME	May specify time limit	S	Ac					S	Ac	Au	L	C	U
LGN-UNIT	May specify unit name	S	Ac					S	Ac	Au	L	C	U
LINE	TSO line delete character	S	Ac		L	C	U	S	Ac	Au	L	C	U
MAIL	Accepts mail at Logon	S	Ac		L	C	U	S	Ac	Au	L	C	U
MODE	Receives TSO modal msgs	S	Ac		L	C	U	S	Ac	Au	L	C	U
MOUNT	May issue mounts	S	Ac					S	Ac	Au	L	C	U
MSGID	Prefix on TSO msgs(id)	S	Ac		L	C	U	S	Ac	Au	L	C	U
NOTICES	Receives TSO notices at Logon	S	Ac		L	C	U	S	Ac	Au	L	C	U
OID	Must insert card	S	Ac					S	Ac	Au	L	C	U
OPERATOR	TSO Operator Privileges	S						S	Ac	Au	L	C	U
PAUSE	Pause during CLIST errors	S	Ac		L	C	U	S	Ac	Au	L	C	U
PMT-ACCT	Forced to specify account at logon	S	Ac					S	Ac	Au	L	C	U

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FIELD NAME	CONTENT	ALTER S	Ac	Au	L	C	U	DISPLAY S	Ac	Au	L	C	U
PMT-PROC	Forced to specify Procedure Name	S	Ac					S	Ac	Au	L	C	U
PROMPT	To be prompted for missing parameters	S	Ac		L	C	U	S	Ac	Au	L	C	U
RECOVER	Uses Recover option (TSO Cmd Package)	S	Ac		L	C	U	S	Ac	Au	L	C	U
TSOACCT	Default Logon Account Number	S	Ac					S	Ac	Au	L	C	U
TSOFSCRN	Will get full-screen logon	S	Ac					S	Ac	Au	L	C	U
TSOPERF	Default Logon Performance Grp.	S	Ac					S	Ac	Au	L	C	U
TSOPROC	Default Logon Procedure Name	S	Ac					S	Ac	Au	L	C	U
TSORBA	Mail Index Record Pointer	S						S					
TSORGN	Default Logon Region Size	S	Ac					S	Ac	Au	L	C	U
TSOSIZE	Maximum TSO Region Size	S	Ac					S	Ac	Au	L	C	U
TSOTIME	Default TSO Time Parameter	S	Ac					S	Ac	Au	L	C	U
TSOUNIT	Default TSO Unit Name	S	Ac					S	Ac	Au	L	C	U
VLD-ACCT	Account is to be validated	S	Ac					S	Ac	Au	L	C	U
VLD-PROC	Proc Name is to be validated	S	Ac					S	Ac	Au	L	C	U
WTP	WTP Msgs are displayed	S	Ac		L	C	U	S	Ac	Au	L	C	U

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FIELD NAME	CONTENT	ALTER S	Ac	Au	L	C	U	DISPLAY S	Ac	Au	L	C	U
(6) STATISTICS SECTION													
PSWD-DAT	Date of last invalid pswd	S						S	Ac	Au	L	C	U
PSWD-TOD	Date/time last Pswd change							S	Ac	Au	L	C	U
PSWD-VIO	Nr. of pswd violations (1 day)	S						S	Ac	Au	L	C	U
SEC-VIO	Nr. of security violations	S						S	Ac	Au	L	C	U
UPD-TOD	Date/time last update (this record)							S	Ac	Au	L	C	U

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APPENDIX C

DEFAULT ACFFDR ON INSTALLATION TAPE

```
ACFFDR   TITLE '-   FIELD DEFINITION RECORD'
**********************************************************************
*                                                                    *
*        LOCAL INSTALLATIONS SHOULD NOT RENUMBER ANY SKK PROVIDED    *
*        PORTIONS OF THE FDR AS ACF2 MAINTENANCE MAY BE APPLIED TO   *
*        IT IN THE FUTURE.                                           *
*                                                                    *
**********************************************************************
ACFFDR   CSECT
         @SETUP ,
*                                GROUP
*                                  0  (DEFAULT) HEADING INFO
         @GROUP 'CANCEL/SUSPEND'   1
         @GROUP 'PRIVILEGES'       2
         @GROUP 'ACCESS'           3
         @GROUP 'MISCELLANEOUS'    4
         @GROUP 'TSO'              5
         @GROUP 'STATISTICS'       6
*
         COPY  ACFCFDE             INCLUDE ACF2 FIELD DEFS
*
*
***************************************************************
*                                                             *
*                      A C F C F D E                          *
*                                                             *
***************************************************************
*                                                             *
*    THIS PORTION OF THE FIELD DEFINITION RECORD (FDR)        *
*    DEFINES THOSE LOGONID RECORD FIELDS THAT ARE SUPPLIED    *
*    BY SKK AND ARE REQUIRED FOR ACF2 OPERATION. THE          *
*    INSTALLATION MAY CHANGE THE 'LIST' AND 'ALTER'           *
*    AUTHORITIES AND THE FIELD DISPLAY GROUPS ONLY.           *
*                                                             *
*                                                             *
*    THIS CODE IS PART OF THE ACF2 SYSTEM, A LICENSED         *
*    PROGRAM PRODUCT OF SKK, INC.                             *
*                                                             *
***************************************************************
*                                                             *
*                                                             *
*              M A I N T E N A N C E   L O G                  *
*              ---------------------   -----                  *
*                                                             *
*  TS75896  02/18/83  REL 3.1.4                               * TS75896
*        CORRECT CICSCL @CFDE                                 * TS75896
*                                                             * TS75896
*  TS77806  04/18/83  REL 3.1.4                               * TS77806
*        ADDED ACC-SRCE TO CFDE'S                             * TS77806
*                                                             * TS77806
```

DEFAULT ACFFDR ON INSTALLATION TAPE

```
*  TS77263  04/18/83  REL 3.1.4                                    * TS77263 00310000
*        ADDED TSORBA TO CFDE'S                                    * TS77263 00320000
*                                                                  * TS77263 00330000
*------------------------------------------------------------------*         00340000
*                                                                  * TS75360 00350000
*  TS75360  12/21/83  REL 4.0.0                                    * TS75360 00360000
*                                                                  * TS75360 00370000
*        ADDED UADSINDX, LGN-INDX, OID, AND OID-ALL                * TS75360 00380000
*                                                                  * TS79135 00390000
*  TS79135  02/14/84  REL 4.0.0                                    * TS79135 00400000
*                                                                  * TS79135 00410000
*        ADDED MAINT FIELD @CFDE                                   * TS79135 00420000
*                                                                  * TS73994 00430000
*  TS73994  04/16/84  REL 4.0.0                                    * TS73994 00440000
*                                                                  * TS73994 00450000
*      - SIMPLIFIED CODING OF @CFDE MACROS BY ALLOWING             * TS73994 00460000
*        RRTN= AND PRTN= TO DEFAULT IN MOST CASES                  * TS73994 00470000
*                                                                  * TS77555 00480000
*  TS77555  04/16/84  REL 4.0.0                                    * TS77555 00490000
*                                                                  * TS77555 00500000
*      - SPECIFIED MINDAYS VALIDATION ROUTINE FOR 'PASSWORD'       * TS77555 00510000
*        FIELD                                                     * TS77555 00520000
*                                                                  * TS77555 00530000
*      - PREVENT THE ASSIGNMENT OF NEGATIVE VALUES TO              * TS77555 00540000
*        SELECTED BINARY DATA ITEMS VIA VALIDATION-2 RTN14         * TS77555 00550000
*                                                                  * TS77555 00560000
*  TS78019  05/14/84  REL 4.0.0                                    * TS78019 00570000
*                                                                  * TS78019 00580000
*      - ADDED NEW FIELD MON-LOG                                   * TS78019 00590000
*                                                                  * TS78019 00600000
*  TS75222  06/26/84  REL 4.0.0                                    * TS75222 00610000
*                                                                  * TS75222 00620000
*        ADDED NEW CICSKEYX FIELD TO HANDLE SECURITY KEY           * TS75222 00630000
*        EXTENSIONS FOR CICS 1.6                                   * TS75222 00640000
*                                                                  * TS75222 00650000
********************************************************************       00660000
*                                                                           00670000
   @CFDE  ACC-CNT,LIDACCNT,BINARY,LIST=ALL,GROUP=3,FLAGS=LIMIT,           X00680000
               VRTN2=14                                            TS77555 00690000
   @CFDE  ACC-DATE,LIDADATE,PACKED,LIST=ALL,GROUP=3,                     X00700000
               FLAGS=LIMIT                                               00710000
   @CFDE  ACC-SRCE,LIDXSRCE,CHAR,LIST=ALL,GROUP=3,FLAGS=LIMIT      TS77806 00720000
   @CFDE  ACC-TIME,LIDATIME,TIMEBIN,LIST=ALL,GROUP=3,FLAGS=LIMIT           00730000
   @CFDE  ACCOUNT,LIDTFLAG,BIT,ALTER=SECURITY,                           X00740000
               LIST=SECURITY+ACCOUNT+AUDIT,                              X00750000
               FLAGS=NULL+RESTRICT,BITMAP=LIDTACT,GROUP=2                00760000
   @CFDE  ACCTPRIV,LIDTFLG3,BIT,BITMAP=LIDT3ACC,LIST=ALL,                X00770000
               ALTER=SECURITY,FLAGS=NULL,GROUP=5                         00780000
   @CFDE  ALLCMDS,LIDTFLG1,BIT,BITMAP=LIDT1BYP,LIST=ALL,                 X00790000
               ALTER=SECURITY+ACCOUNT,FLAGS=NULL,GROUP=5                 00800000
```

DEFAULT ACFFDR ON INSTALLATION TAPE

```
@CFDE  ATTR2,LIDTAT2,HEX,LIST=ALL,FLAGS=NULL,                              X00810000
            ALTER=SECURITY+ACCOUNT,GROUP=5                                  00820000
@CFDE  AUDIT,LIDTFLAG,BIT,ALTER=SECURITY,                                  X00830000
            LIST=SECURITY+ACCOUNT+AUDIT,                                   X00840000
            FLAGS=NULL+RESTRICT,BITMAP=LIDTAUD,GROUP=2                      00850000
@CFDE  AUTODUMP,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                       X00860000
            FLAGS=NULL+RESTRICT,BITMAP=LIDMADMP,GROUP=2                     00870000
@CFDE  CANCEL,LIDCFLAG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,                X00880000
            FLAGS=NULL,BITMAP=LIDCCAN,PRTN=6,RRTN=3,GROUP=1                 00890000
@CFDE  CHAR,LIDCHAR,CHAR,LIST=ALL,ALTER=ALL-AUDIT,                         X00900000
            FLAGS=NULL+SPECIAL+LIMIT,PRTN=7,RRTN=7,GROUP=5                  00910000
@CFDE  CICS,LIDM2FLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,                  X00920000
            FLAGS=NULL,BITMAP=LIDM2CIC,GROUP=2                              00930000
@CFDE  CICSCL,LIDCOPCL,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL,  TS72813X00940000
            FLAGS=NULL,GROUP=4                               TS75896 00950000
@CFDE  CICSID,LIDCOPID,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT, TS72813X00960000
            FLAGS=NULL,GROUP=4                               TS72813 00970000
@CFDE  CICSKEY,LIDCOPKY,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL, TS72813X00980000
            FLAGS=NULL,GROUP=4                               TS72813 00990000
@CFDE  CICSKEYX,LIDCOPKX,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL, S75222X01000000
            FLAGS=NULL,GROUP=4                               TS75222 01010000
@CFDE  CICSPRI,LIDCOPPR,BINARY,ALTER=SECURITY+ACCOUNT,       TS72813X01020000
            LIST=ALL,FLAGS=NULL,GROUP=4,                     TS72813X01030000
            VRTN2=14                                         TS77555 01040000
@CFDE  CICSRSL,LIDCOPRL,HEX,ALTER=SECURITY+ACCOUNT,LIST=ALL,           X01050000
            FLAGS=NULL,GROUP=4                                          01060000
@CFDE  CMD-LONG,LIDTFLG3,BIT,BITMAP=LIDT3CMD,LIST=ALL,                 X01070000
            ALTER=SECURITY+ACCOUNT,GROUP=5,                            X01080000
            FLAGS=NULL+LIMIT                                            01090000
@CFDE  CONSULT,LIDTFLAG,BIT,ALTER=SECURITY+ACCOUNT,                    X01100000
            LIST=SECURITY+ACCOUNT+AUDIT+CONSULT,                       X01110000
            FLAGS=NULL,BITMAP=LIDTCONS,GROUP=2                          01120000
@CFDE  CSDATE,LIDCDATE,PACKED,LIST=SECURITY+ACCOUNT+AUDIT,             X01130000
            FLAGS=NULL,GROUP=1                                          01140000
@CFDE  CSWHO,LIDCWHO,CHAR,LIST=SECURITY+ACCOUNT+AUDIT,                 X01150000
            FLAGS=NULL,GROUP=1                                          01160000
@CFDE  DFT-DEST,LIDTDRMT,CHAR,LIST=ALL,FLAGS=NULL+LIMIT,               X01170000
            ALTER=SECURITY+ACCOUNT,GROUP=5                              01180000
@CFDE  DFT-PFX,LIDTPPFX,CHAR,LIST=ALL,ALTER=ALL-AUDIT,                 X01190000
            FLAGS=NULL+LIMIT,GROUP=5                         TS73870 01200000
@CFDE  DFT-SOUT,LIDTSOUT,CHAR,LIST=ALL,                                X01210000
            ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                    01220000
@CFDE  DFT-SUBC,LIDTSUBC,CHAR,LIST=ALL,                                X01230000
            ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                    01240000
@CFDE  DFT-SUBH,LIDTSUBH,CHAR,LIST=ALL,                                X01250000
            ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                    01260000
@CFDE  DFT-SUBM,LIDTSUBM,CHAR,LIST=ALL,                                X01270000
            ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                    01280000
@CFDE  DSNSCOPE,LIDSSCOP,CHAR,ALTER=SECURITY,                          X01290000
            LIST=ALL-USER,                                             X01300000
```

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```
          FLAGS=NULL+RESTRICT,PRTN=10,RRTN=10,GROUP=2                    C1310000
@CFDE  DUMPAUTH,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                     X01320000
          FLAGS=NULL+RESTRICT,BITMAP=LIDMRDMP,GROUP=2                    01330000
@CFDE  EXPIRE,LIDEXPDT,PACKED,ALTER=SECURITY+ACCOUNT,          TS72813X01340000
          LIST=ALL,FLAGS=NULL,GROUP=2                          TS72813 01350000
@CFDE  IDLE,LIDIDLE,BINARY,LIST=ALL,ALTER=SECURITY+ACCOUNT,              X01360000
          FLAGS=NULL+LIMIT,GROUP=4,                                      X01370000
          VRTN2=14                                             TS77555 01380000
@CFDE  IDMS,LIDMAUTH,BIT,ALTER=SECURITY,LIST=ALL,              IDMS200X01390000
          FLAGS=NULL,PRTN=3,RRTN=3,GROUP=2,BITMAP=LIDMAIDM     IDMS200 01400000
@CFDE  IMS,LIDM2FLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,                 X01410000
          FLAGS=NULL,BITMAP=LIDM2IMS,GROUP=2                             01420000
@CFDE  INTERCOM,LIDTFLG2,BIT,BITMAP=LIDT2INT,LIST=ALL,                   X01430000
          ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                       01440000
@CFDE  JCL,LIDTFLG3,BIT,BITMAP=LIDT3JCL,LIST=ALL,GROUP=5,FLAGS=NULL,     X01450000
          ALTER=SECURITY+ACCOUNT                                         01460000
@CFDE  JOB,LIDM2FLG,BIT,BITMAP=LIDM2JOB,                       TS72379X01470000
          ALTER=SECURITY+ACCOUNT,FLAGS=NULL,                   TS72379X01480000
          GROUP=2,LIST=ALL                                     TS72379 01490000
@CFDE  JOBFROM,LIDMUSAS,BIT,BITMAP=LIDMUSID,                   TS72813X01500000
          ALTER=SECURITY,LIST=ALL,FLAGS=NULL+RESTRICT,         TS72813X01510000
          GROUP=2                                              TS72813 01520000
@CFDE  LEADER,LIDTFLAG,BIT,ALTER=SECURITY+ACCOUNT,                       X01530000
          LIST=SECURITY+ACCOUNT+AUDIT+LEADER+CONSULT,                    X01540000
          FLAGS=NULL,BITMAP=LIDTLDR,GROUP=2                              01550000
@CFDE  LGN-ACCT,LIDTFLG1,BIT,BITMAP=LIDT1ACC,LIST=ALL,FLAGS=NULL,        X01560000
          ALTER=SECURITY+ACCOUNT,GROUP=5                                 01570000
@CFDE  LGN-INDX,LIDTFLG4,BIT,BITMAP=LIDT4IND,LIST=ALL,FLAGS=NULL,        X01580000
          ALTER=SECURITY+ACCOUNT,GROUP=5                                 01590000
@CFDE  LGN-MSG,LIDTFLG1,BIT,BITMAP=LIDT1MSG,LIST=ALL,FLAGS=NULL,         X01600000
          ALTER=SECURITY+ACCOUNT,GROUP=5                                 01610000
@CFDE  LGN-PERF,LIDTFLG1,BIT,BITMAP=LIDT1PER,LIST=ALL,FLAGS=NULL,        X01620000
          ALTER=SECURITY+ACCOUNT,GROUP=5                                 01630000
@CFDE  LGN-PROC,LIDTFLG1,BIT,BITMAP=LIDT1PRC,LIST=ALL,FLAGS=NULL,        X01640000
          ALTER=SECURITY+ACCOUNT,GROUP=5                                 01650000
@CFDE  LGN-RCVR,LIDTFLG3,BIT,BITMAP=LIDT3RVR,FLAGS=NULL+LIMIT,           X01660000
          LIST=ALL,ALTER=SECURITY+ACCOUNT,GROUP=5                        01670000
@CFDE  LGN-SIZE,LIDTFLG1,BIT,BITMAP=LIDT1SIZ,LIST=ALL,FLAGS=NULL,        X01680000
          ALTER=SECURITY+ACCOUNT,GROUP=5                                 01690000
@CFDE  LGN-TIME,LIDTFLG1,BIT,BITMAP=LIDT1TIM,LIST=ALL,FLAGS=NULL,        X01700000
          ALTER=ACCOUNT+SECURITY,GROUP=5                                 01710000
@CFDE  LGN-UNIT,LIDTFLG1,BIT,BITMAP=LIDT1UNT,LIST=ALL,FLAGS=NULL,        X01720000
          ALTER=SECURITY+ACCOUNT,GROUP=5                                 01730000
@CFDE  LID,LIDLID,CHAR,LIST=ALL                                          01740000
@CFDE  LIDSCOPE,LIDASCOP,CHAR,ALTER=SECURITY,                            X01750000
          LIST=ALL-USER,                                                 X01760000
          FLAGS=NULL+RESTRICT,PRTN=10,RRTN=10,GROUP=2                    01770000
@CFDE  LINE,LIDLINE,CHAR,LIST=ALL,ALTER=ALL-AUDIT,                       X01780000
          FLAGS=NULL+SPECIAL+LIMIT,PRTN=7,RRTN=7,GROUP=5                 01790000
@CFDE  LOGSHIFT,LIDM3FLG,BIT,ALTER=SECURITY,LIST=ALL,          TS73827X01800000
```

DEFAULT ACFFDR ON INSTALLATION TAPE

```
          FLAGS=NULL+RESTRICT,BITMAP=LIDM3SFT,GROUP=2                    01810000
@CFDE     MAIL,LIDTFLG2,BIT,BITMAP=LIDT2MAL,LIST=ALL,                    X01820000
          ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                       01830000
@CFDE     MAINT,LIDFLAG5,BIT,BITMAP=LID5MAIN,LIST=ALL,                   X01840000
          ALTER=SECURITY,FLAGS=RESTRICT+NULL,GROUP=2                     01850000
@CFDE     MAXDAYS,LIDNDAYS,BINARY,ALTER=SECURITY+ACCOUNT,                X01860000
          LIST=ALL,FLAGS=NULL,GROUP=4,                                   X01870000
          VRTN2=14                                          TS77555 01880000
@CFDE     MINDAYS,LIDMINDY,BINARY,ALTER=SECURITY+ACCOUNT,                X01890000
          LIST=ALL,FLAGS=NULL,GROUP=4,                      TS73851X01900000
          VRTN2=14                                          TS77555 01910000
@CFDE     MODE,LIDTFLG2,BIT,BITMAP=LIDT2MOD,LIST=ALL,                    X01920000
          ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                       01930000
@CFDE     MON-LOG,LIDCFLAG,BIT,ALTER=SECURITY,LIST=SECURITY+AUDIT,       X01940000
          FLAGS=NULL,BITMAP=LIDCMLOG,PRTN=6,RRTN=3,GROUP=1               01950000
@CFDE     MONITOR,LIDCFLAG,BIT,ALTER=SECURITY,LIST=SECURITY+AUDIT,       X01960000
          FLAGS=NULL,BITMAP=LIDCMON,PRTN=6,RRTN=3,GROUP=1                01970000
@CFDE     MOUNT,LIDTFLG3,BIT,BITMAP=LIDT3MNT,LIST=ALL,                   X01980000
          ALTER=SECURITY+ACCOUNT,GROUP=5,                                X01990000
          FLAGS=NULL+LIMIT                                               02000000
@CFDE     MSGID,LIDTFLG2,BIT,BITMAP=LIDT2MSG,LIST=ALL,                   X02010000
          ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                       02020000
@CFDE     MUSASS,LIDMUSAS,BIT,BITMAP=LIDMUMUS,ALTER=SECURITY,  TS72813X02030000
          LIST=ALL,FLAGS=NULL+RESTRICT,GROUP=2                 TS72813 02040000
@CFDE     MUSOPT,LIDMUOPT,CHAR,ALTER=SECURITY,LIST=ALL,        IDMS200X02050000
          FLAGS=NULL,PRTN=1,RRTN=1,GROUP=4                     IDMS200 02060000
@CFDE     MUSPGM,LIDMUPGM,CHAR,ALTER=SECURITY,LIST=ALL,        IDMS200X02070000
          FLAGS=NULL,PRTN=1,RRTN=1,GROUP=4                     IDMS200 02080000
@CFDE     NAME,LIDNAME,CHAR,ALTER=SECURITY+ACCOUNT,                      X02090000
          LIST=ALL,FLAGS=NULL,GROUP=0                                    02100000
@CFDE     NO-SMC,LIDMUSAS,BIT,BITMAP=LIDMUSMC,                TS72813X02110000
          ALTER=SECURITY,LIST=ALL,                            TS72813X02120000
          FLAGS=NULL+RESTRICT,GROUP=2                         TS72813 02130000
@CFDE     NO-STORE,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                  X02140000
          FLAGS=NULL+RESTRICT,BITMAP=LIDMNSTO,GROUP=2                    02150000
@CFDE     NON-CNCL,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                  X02160000
          FLAGS=NULL+RESTRICT,BITMAP=LIDMNCNL,GROUP=2                    02170000
@CFDE     NOTICES,LIDTFLG2,BIT,BITMAP=LIDT2NOT,LIST=ALL,                 X02180000
          ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                       02190000
@CFDE     OID,LIDTFLG4,BIT,BITMAP=LIDT4OID,LIST=ALL,                     X02200000
          ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                      02210000
@CFDE     OID-ALL,LIDTFLG4,BIT,BITMAP=LIDT4ALL,LIST=ALL,                 X02220000
          ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                      02230000
@CFDE     OPERATOR,LIDTFLG3,BIT,BITMAP=LIDT3OPR,LIST=ALL,                X02240000
          ALTER=SECURITY,FLAGS=NULL,GROUP=5                              02250000
@CFDE     PASSWORD,LIDPSWD,CHEN,ALTER=SECURITY+ACCOUNT+USER,             X02260000
          FLAGS=NEVER,PRTN=5,VRTN1=05                       TS77555 02270000
@CFDE     PAUSE,LIDTFLG2,BIT,BITMAP=LIDT2PAU,LIST=ALL,                   X02280000
          ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                       02290000
@CFDE     PGM,LIDRSUPB,CHAR,LIST=ALL,   DUPLICATE OF 'PROGRAM' TS73928X02300000
```

```
            ALTER=SECURITY+ACCOUNT,FLAGS=NULL,PRTN=10, (NO RRTN)     X02310000
            GROUP=2                                                   02320000
@CFDE  PHONE,LIDPHONE,CHAR,ALTER=SECURITY+ACCOUNT+LEADER,            X02330000
            LIST=ALL,FLAGS=NULL,GROUP=0                              02340000
@CFDE  PMT-ACCT,LIDTFLG4,BIT,BITMAP=LIDT4PAC,LIST=ALL,FLAGS=NULL,    X02350000
            ALTER=ACCOUNT+SECURITY,GROUP=5                           02360000
@CFDE  PMT-PROC,LIDTFLG4,BIT,BITMAP=LIDT4PPR,LIST=ALL,FLAGS=NULL,    X02370000
            ALTER=ACCOUNT+SECURITY,GROUP=5                           02380000
@CFDE  PREFIX,LIDPFX,CHAR,ALTER=SECURITY,LIST=ALL,                   X02390000
            FLAGS=RESTRICT,PRTN=9,RRTN=1,GROUP=4                     02400000
@CFDE  PROGRAM,LIDRSUPB,CHAR,LIST=ALL,                               X02410000
            ALTER=SECURITY+ACCOUNT,FLAGS=NULL,PRTN=10,RRTN=10,       X02420000
            GROUP=2                                                  02430000
@CFDE  PROMPT,LIDTFLG2,BIT,BITMAP=LIDT2PRO,LIST=ALL,                 X02440000
            ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                 02450000
@CFDE  PSWD-DAT,LIDIPDAT,PACKED,ALTER=SECURITY,LIST=ALL,             X02460000
            FLAGS=LIMIT,GROUP=6                                      02470000
@CFDE  PSWD-EXP,LIDM2FLG,BIT,BITMAP=LIDM2PXP,GROUP=1,          TS72573X02480000
            LIST=ALL,FLAGS=NULL,ALTER=SECURITY                 TS72813 02490000
@CFDE  PSWD-TOD,LIDPSTOD,TOD,LIST=ALL,GROUP=6,FLAGS=LIMIT            02500000
@CFDE  PSWD-VIO,LIDIPSD,BINARY,ALTER=SECURITY,LIST=ALL,              X02510000
            FLAGS=LIMIT,GROUP=6,                                     X02520000
            VRTN2=14                                           TS77555 02530000
@CFDE  READALL,LIDM2FLG,BIT,BITMAP=LIDM2RDA,                   TS73833X02540000
            LIST=ALL,ALTER=SECURITY,FLAGS=NULL+RESTRICT,       TS73833X02550000
            GROUP=2                                            TS73833 02560000
@CFDE  RECOVER,LIDTFLG3,BIT,BITMAP=LIDT3RCV,                         X02570000
            LIST=ALL,ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,               X02580000
            GROUP=5                                                  02590000
@CFDE  REFRESH,LIDFLAG5,BIT,ALTER=SECURITY,                          X02600000
            LIST=SECURITY+ACCOUNT+AUDIT,                             X02610000
            FLAGS=NULL+RESTRICT,BITMAP=LID5REFR,GROUP=2              02620000
@CFDE  RESTRICT,LIDMFLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,         X02630000
            FLAGS=NULL,BITMAP=LIDMRST,GROUP=2                        02640000
@CFDE  RULEVLD,LIDM2FLG,BIT,BITMAP=LIDM2VLD,                   TS73849X02650000
            LIST=ALL,ALTER=SECURITY,FLAGS=NULL+RESTRICT,       TS73849X02660000
            GROUP=2                                            TS73849 02670000
@CFDE  SCPLIST,LIDSCPL,CHAR,LIST=ALL-USER,                     TS73800X02680000
            ALTER=SECURITY,FLAGS=RESTRICT+NULL,                TS73800X02690000
            GROUP=2                                            TS73800 02700000
@CFDE  SEC-VIO,LIDSECV,BINARY,ALTER=SECURITY,                        X02710000
            LIST=SECURITY+ACCOUNT+AUDIT,                             X02720000
            FLAGS=LIMIT,GROUP=6,                                     X02730000
            VRTN2=14                                           TS77555 02740000
@CFDE  SECURITY,LIDTFLAG,BIT,ALTER=SECURITY,                         X02750000
            LIST=SECURITY+ACCOUNT+AUDIT,                             X02760000
            FLAGS=NULL+RESTRICT,BITMAP=LIDTSEC,GROUP=2               02770000
@CFDE  SHIFT,LIDSHIFT,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,    TS73827X02780000
            FLAGS=NULL,GROUP=4                                 TS73827 02790000
@CFDE  SOURCE,LIDSRCE,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,          X02800000
```

DEFAULT ACFFDR ON INSTALLATION TAPE

```
          FLAGS=NULL,GROUP=4                                                    02810000
@CFDE     STC,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                             X02820000
          FLAGS=NULL+RESTRICT,BITMAP=LIDMSTC,GROUP=2                            02830000
@CFDE     SUBAUTH,LIDMFLG,BIT,ALTER=SECURITY+ACCOUNT,LIST=ALL,                 X02840000
          FLAGS=NULL,BITMAP=LIDMRSTA,GROUP=2                                    02850000
@CFDE     SUSPEND,LIDCFLAG,BIT,ALTER=SECURITY+ACCOUNT+LEADER,                  X02860000
          LIST=ALL,FLAGS=NULL,BITMAP=LIDCSUS,PRTN=6,RRTN=3,GROUP=1              02870000
@CFDE     TAPE-BLP,LIDMFLG,BIT,ALTER=SECURITY,LIST=ALL,                        X02880000
          FLAGS=NULL+RESTRICT,BITMAP=LIDMBLP,GROUP=2                            02890000
@CFDE     TAPE-LBL,LIDM2FLG,BIT,ALTER=SECURITY,LIST=ALL,                       X02900000
          FLAGS=NULL+RESTRICT,BITMAP=LIDM2PBL,GROUP=2                           02910000
@CFDE     TRACE,LIDCFLAG,BIT,ALTER=SECURITY,                                   X02920000
          LIST=SECURITY+AUDIT,FLAGS=NULL,BITMAP=LIDCTRC,                       X02930000
          GROUP=1                                                               02940000
@CFDE     TSO,LIDM2FLG,BIT,BITMAP=LIDM2TSO,FLAGS=NULL,                    TS72813X02950000
          ALTER=SECURITY+ACCOUNT,LIST=ALL,                                TS72813X02960000
          GROUP=2                                                         TS72813 02970000
@CFDE     TSO-TRC,LIDCFLAG,BIT,ALTER=SECURITY+ACCOUNT,                         X02980000
          LIST=SECURITY+AUDIT,FLAGS=NULL,BITMAP=LIDCTSO,                       X02990000
          GROUP=1                                                               03000000
@CFDE     TSOACCT,LIDACCT,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT,                X03010000
          FLAGS=NULL+LIMIT,GROUP=5                                              03020000
@CFDE     TSOCMDS,LIDTCMDS,CHAR,ALTER=SECURITY+ACCOUNT,                        X03030000
          LIST=ALL,FLAGS=NULL,GROUP=5                                           03040000
@CFDE     TSOFSCRN,LIDTFLG4,BIT,BITMAP=LIDT4FSC,LIST=ALL,                      X03050000
          ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                             03060000
@CFDE     TSOPERF,LIDPERF,BINARY,LIST=ALL,FLAGS=NULL+LIMIT,                    X03070000
          ALTER=SECURITY+ACCOUNT,GROUP=5,                                      X03080000
          VRTN2=14                                                        TS77555 03090000
@CFDE     TSOPROC,LIDPROC,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT,                X03100000
          FLAGS=NULL+LIMIT,GROUP=5                                              03110000
@CFDE     TSORBA,LIDTRBA,HEX,ALTER=SECURITY,GROUP=5,                      TS77263X03120000
          LIST=SECURITY                                                   TS77263 03130000
@CFDE     TSORGN,LIDSIZE,BINARY,LIST=ALL,ALTER=SECURITY+ACCOUNT,               X03140000
          FLAGS=NULL+LIMIT,GROUP=5,                                            X03150000
          VRTN2=14                                                        TS77555 03160000
@CFDE     TSOSIZE,LIDTMAXS,BINARY,LIST=ALL,GROUP=5,                            X03170000
          ALTER=SECURITY+ACCOUNT,FLAGS=NULL+LIMIT,                             X03180000
          VRTN2=14                                                        TS77555 03190000
@CFDE     TSOTIME,LIDTTIME,BINARY,LIST=ALL,FLAGS=NULL+LIMIT,                   X03200000
          ALTER=SECURITY+ACCOUNT,GROUP=5,                                      X03210000
          VRTN2=14                                                        TS77555 03220000
@CFDE     TSOUNIT,LIDTUNIT,CHAR,LIST=ALL,ALTER=SECURITY+ACCOUNT,               X03230000
          FLAGS=NULL+LIMIT,GROUP=5                                              03240000
@CFDE     UADSINDX,LIDXINDX,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,              X03250000
          FLAGS=NULL+LIMIT,GROUP=5                                              03260000
@CFDE     UID,PSEUDO,CHAR,LIST=ALL,RRTN=6,FLAGS=SPECIAL                         03270000
@CFDE     UIDSCOPE,LIDUSCOP,CHAR,ALTER=SECURITY,                               X03280000
          LIST=ALL-USER,                                                       X03290000
          FLAGS=NULL+RESTRICT,PRTN=10,RRTN=10,GROUP=2                           03300000
```

DEFAULT ACFFDR ON INSTALLATION TAPE

```
   @CFDE  UPD-TOD,LIDLUPT,TOD,LIST=ALL,GROUP=6,FLAGS=LIMIT                03310000
   @CFDE  USER,LIDTFLAG,BIT,ALTER=SECURITY+ACCOUNT,                      X03320000
               LIST=0,FLAGS=NEVER,BITMAP=LIDTUSR,GROUP=2                 03330000
   @CFDE  VLD-ACCT,LIDTFLG4,BIT,BITMAP=LIDT4ACC,LIST=ALL,                X03340000
               ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                 03350000
   @CFDE  VLD-PROC,LIDTFLG4,BIT,BITMAP=LIDT4PRC,LIST=ALL,                X03360000
               ALTER=ACCOUNT+SECURITY,FLAGS=NULL,GROUP=5                 03370000
   @CFDE  WTP,LIDTFLG2,BIT,BITMAP=LIDT2WTP,LIST=ALL,                     X03380000
               ALTER=ALL-AUDIT,FLAGS=NULL+LIMIT,GROUP=5                  03390000
   @CFDE  ZONE,LIDZONE,CHAR,LIST=ALL,ALTER=ACCOUNT+SECURITY,    TS73827X03400000
               FLAGS=NULL,GROUP=4                               TS73827 03410000
*                                                                        03420000
*                                                                        03430000
************************************************************          03440000
*                                                          *          03450000
*         END OF ACF2 DEFINED LOGONID FIELDS               *          03460000
*                                                          *          03470000
************************************************************          03480000
*                                                                        03490000
*                                                                        00210000
        COPY  USERCFDE            INCLUDE USER DEFINITIONS             00220000
*                                                                EN00008 00010000
*                                                                EN00008 00020000
************************************************************ EN00008 00030000
************************************************************ EN00008 00040000
**                                                        ** EN00008 00050000
**                                                        ** EN00008 00060000
**             U S E R C F D E                            ** EN00008 00070000
**                                                        ** EN00008 00080000
**       THESE ARE THE @CFDE FDR MACROS FOR THE USER DEFINED ** EN00008 00090000
**       FIELDS IN THE LOGONID RECORD. FOR EACH @CFDE MACRO  ** EN00008 00100000
**       SPECIFIED HERE A CORRESPONDING FIELD MUST BE        ** EN00008 00110000
**       DEFINED IN THE USERLID MODULE TO BE INCLUDED IN THE ** EN00008 00120000
**       LOGONID RECORD.                                    ** EN00008 00130000
**                                                          ** EN00008 00140000
************************************************************ EN00008 00150000
************************************************************ EN00008 00160000
        EJECT ,                                                          00230000
************************************************************          00240000
*                                                                        00250000
*   THE CSVC ENTRY DEFINES THE TWO SVC NUMBERS THAT ARE                  00260000
*   DEDICATED FOR ACF2 USE.                                              00270000
*                                                                        00280000
************************************************************          00290000
        @CSVC  ALTER=222,VALD=221                                        00300000
*                                                                        00310000
************************************************************          00320000
*                                                                TS72813 00330000
*   SPECIFY DEFAULT ACF2 CLUSTER/BACKUP DATASET NAMES WITH       TS72813 00340000
*   GROUP NAME OF PRIMARY.                                       TS72813 00350000
```

DEFAULT ACFFDR ON INSTALLATION TAPE

```
*                                                                TS72813 00360000
*     S ACF2 -OR-  S ACF2,PARM='DDSN(PRIMARY)'                   TS72813 00370000
*                                                                TS72813 00380000
*   TO DYNAMICALLY ALLOCATE THE SPECIFIED PRIMARY DATASETS       TS72813 00390000
*                                                                TS72813 00400000
****************************************************************       00410000
        @DDSN PRIMARY,                  ** DEFAULT GROUP NDX     TS72813X00420000
              RULE='SYS1.ACF.RULES',    ** RULES CLUSTER         TS72813X00430000
              LID='SYS1.ACF.LOGONIDS',  ** LOGONID CLUSTER       TS72813X00440000
              INFO='SYS1.ACF.INFOSTG',  ** GEN RESOURCE CLSTR    TS72813X00450000
              BRULE='SYS1.ACF.BKRULES', ** RULES BACKUP          TS72813X00460000
              BLID='SYS1.ACF.BKLIDS',   ** LOGONIDS BACKUP       TS72813X00470000
              BINFO='SYS1.ACF.BKINFO'   ** RESOURCE BACKUP       TS72813 00480000
*                                                                       00490000
****************************************************************       00500000
*                                                                TS72813 00510000
*   SPECIFY ALTERNATE ACF2 CLUSTER/BACKUP DATASET NAMES          TS72813 00520000
*   WITH A GROUP NAME OF ALT.                                    TS72813 00530000
*                                                                TS72813 00540000
*      S ACF2,PARM='DDSN(ALT)'                                   TS72813 00550000
*                                                                TS72813 00560000
*   TO DYNAMICALLY ALLOCATE THE SPECIFIED DATASETS.              TS72813 00570000
*                                                                TS72813 00580000
****************************************************************       00590000
        @DDSN ALT,                      ** ALTERNATE GROUP NDXTS72813X00600000
              RULE='SYS1.ACF.ALTRULES', ** ALT RULES CLUSTER  TS72813X00610000
              LID='SYS1.ACF.ALTLIDS',   ** ALT LOGONID CLUSTERTS72813X00620000
              INFO='SYS1.ACF.ALTINFO',  ** ALT RESOURCE CLUSTETS72813X00630000
              BRULE='SYS1.ACF.ABKRULES',** ALT RULES BACKUP   TS72813X00640000
              BLID='SYS1.ACF.ABKLIDS',  ** ALT LOGONID BACKUP TS72813X00650000
              BINFO='SYS1.ACF.ABKINFO'  ** ALT RESOURCE BACKUPTS72813 00660000
*                                                                       00670000
****************************************************************       00680000
*                                                                       00690000
*   THE HEADER ENTRY DEFINES THE FORMAT OF THE FIRST LINE              00700000
*   OF THE LOGONID DISPLAY OF THE ACF COMMAND.                         00710000
*                                                                       00720000
****************************************************************       00730000
        @HEADER LID,UID,NAME,PHONE                                     00740000
*                                                                       00750000
****************************************************************       00760000
*                                                                       00770000
*   SPECIFY @MLID MACROS TO DESCRIBE THE VARIOUS LOGONID RECORD         00780000
*   COMPRESSION ALGORITHMS FOR THE DIFFERENT MULTI USER SINGLE          00790000
*   ADDRESS SPACE SYSTEMS AND THEIR INDIVIDUAL REQUIREMENTS.           00800000
*   THE ACF2 @MLID SPECIFICATION MUST BE FIRST AND MUST NOT BE         00810000
*   MODIFIED BY THE INSTALLATION.                                      00820000
*                                                                       00830000
****************************************************************       00840000
        @MLID ACF2,MLAREC,MLALENG,    NAME, START, LENGTH      EN00020X00850000
```

```
              (LIDLID,MLALID),          LOGONID                      EN00020X00860000
              (LIDNAME,MLANAME),        USER'S NAME                  EN00020X00870000
              (LIDPFX,MLAPFX),          OWNED DSET PREFIX            EN00020X00880000
              (LIDSSCOP,MLASSCOP),      DSN SCOPE                    EN00020X00890000
              (LIDASCOP,MLAASCOP),      LID SCOPE                    EN00020X00900000
              (LIDUSCOP,MLAUSCOP),      UID SCOPE                    EN00020X00910000
              (LIDSCPL,MLASCPL),        SCOP LIST NAME               TS73800X00920000
              (LIDTFLAG,MLATFLAG),      USER TYPE                    EN00020X00930000
              (LIDMFLG,MLAMFLG),        MISCELLANEOUS FLAGS          EN00020X00940000
              (LIDCFLAG,MLACFLAG),      CANCEL/SUSPEND FLAGS         EN00020X00950000
              (LIDPSWD,MLAPSWD),        ENCRIPTED PASSWORD DATA      EN00020X00960000
              (LIDPSTOD,MLAPSTOD),      PASSWORD SET TIME OF DAY     EN00020X00970000
              (LIDZONE,MLAZONE),        ZONE NAME FOR TIME ADJ       TS77916X00980000
              (LIDNPSWD,MLANPSWD)       NEW FORMATTED PASSWORD       TS73845 00990000
*                                                                                01000000
         @MLID CICS,MLACICS,MLACICSL,   NAME, START, LENGTH          TS77227X01010000
              (LIDCOPCL,MLACOPCL),      OPERATOR CLASS               TS77227X01020000
              (LIDCOPID,MLACOPID),      OPERATOR ID                  TS77227X01030000
              (LIDCOPKY,MLACOPKY),      OPERATOR SECURITY KEY        TS77227X01040000
              (LIDCOPRL,MLACOPRL),      RESOURCE LEVEL KEY           TS77227X01050000
              (LIDCOPPR,MLACOPPR),      OPERATOR PRIORITY            TS77227X01060000
              (LIDIDLE,MLACIDLE),       MAX IDLE TIME IN MINUTES     TS75717X01070000
              (LIDM2FLG,MLACAUTH),      CICS SIGNON AUTH BYTE;       TS77227X01080000
              (LIDCOPKX,MLACOPKX)       MAX IDLE TIME IN MINUTES     TS75717 01090000
*                                NOTE: THIS FIELD CORRESPONDS        TS77227 01100000
*                                       TO THE @CICS AUTH= PARM      TS77227 01110000
*                                                                    IDMS200 01111000
*        SPECIFY THE IDMS @MLID DEFINITION                           IDMS200 01112000
*                                                                    IDMS200 01113000
         @MLID IDMS,MLAIDMS,MLAIDMSL,   NAME, START, LENGTH          IDMS200X01114000
              (LIDMAUTH,MLAIAUTH)       IDMS AUTHORIZATION BYTE      IDMS200 01115000
*                                                                              01120000
*****************************************************************        01130000
*                                                                              01140000
*   SPECIFY @MUSASS MACROS TO DEFINE THE MULTIUSER SINGLE                      01150000
*   ADDRESS SPACE SYSTEMS THAT ARE TO HAVE SPECIAL MUSASS                      01160000
*   SUPPORT.                                                                   01170000
*                                                                              01180000
*****************************************************************        01190000
         @MUSASS   IMS,MLID=ACF2,FASTPTH=YES,CACHE=NO                TS75705 01200000
*                                                                              01210000
         @MUSASS   CICSCVT,MLID=CICS,                               TS75717X01220000
              CVTNAME=ACF##CVT,CVTCOM=YES,WORK=(0,0),               TS75717X01230000
              FASTPTH=YES,CACHE=YES,CACHE#=5                        TS75705 01240000
*                                                                              01250000
*****************************************************************        01260000
*                                                                              01270000
*   THE SMF ENTRY DEFINES THE RECORD NUMBERS THAT ACF2 IS                      01280000
*   TO USE WHEN PRODUCING ITS SMF RECORDS.                                     01290000
*                                                                              01300000
```

DEFAULT ACFFDR ON INSTALLATION TAPE

```
*****************************************************************          01310000
      @SMF  PSWD=0,       INVALID PASSWORD/AUTHORITY          ACF400 X01320000
            DSN=0,        DSN AND PROG VIO/LOG/TRACE          ACF400 X01330000
            LID=0,        LOGONID MODIFICAITON JOURNAL        ACF400 X01340000
            RULE=0,       ACCESS RULE MODIFICATION JOURNAL    ACF400 X01350000
            JTRACE=0,     RESTRICTED LOGONID JOB LOG          ACF400 X01360000
            COMMAND=0,    TSO COMMAND RECORDS                 ACF400 X01370000
            INFO=0,       INFO STG MODIFICATION JOURNAL       ACF400 X01380000
            RSRC=0,       RESOURCE VIO/LOG/TRACE              ACF400 X01390000
            ACF2=230,     COMBINED SMF RECORD (R400)          ACF400 X01400000
            JINIT=FIRST,  ACF2 JOB INIT IS BEFORE IEFUJI      ACF400 X01410000
            SINIT=FIRST,  ACF2 STEP INIT IS BEFORE IEFUSI     ACF400 X01420000
            JTERM=LAST    ACF2 JOB TERM IS AFTER IEFACTRT     ACF400  01430000
*                                                                       01440000
*****************************************************************      01450000
*                                                                       01460000
*   THE UID ENTRY DEFINES THE USER IDENTIFICATION STRING.               01470000
*                                                                       01480000
*****************************************************************      01490000
      @UID   LID                                                        01500000
*                                                                       01510000
*****************************************************************      01520000
*                                                                       01530000
*   THE ZEROFLD ENTRY DEFINES THE FIELDS THAT SHOULD BE ZEROED          01540000
*   OR BLANKED WHEN AN INSERT USING IS DONE ON A LOGONID RECORD.        01550000
*   CARE SHOULD BE TAKEN WHEN REMOVING NAMES FROM THE SUPPLIED          01560000
*   LIST IF THOSE ENTRIES MAY PROVIDE ADDITIONAL AUTHORITIES            01570000
*   SUCH AS SECURITY OR AUDIT OR ACCOUNT.                               01580000
*                                                                       01590000
*****************************************************************      01600000
      @ZEROFLD NAME,PHONE,UPD-TOD,SEC-VIO,OID,OID-ALL,UADSINDX,        X01610000
            PSWD-VIO,PSWD-DAT,ACC-DATE,ACC-TIME,ACC-CNT,               X01620000
            ACCTPRIV,OPERATOR,NON-CNCL,MOUNT,MAINT,                    X01630000
            NO-SMC,MUSASS,JOBFROM,ACC-SRCE,TSORBA,                     X01640000
            SECURITY,LEADER,CONSULT,AUDIT,ACCOUNT,REFRESH,             X01650000
            SCPLIST,LOGSHIFT,READALL,RULEVLD,SHIFT,ZONE, Project       01660000
      EJECT ,                                                          01670000
*****************************************************************      01680000
*                                                                       01690000
*   GENERATE THE ACFFDR CSECT                                           01700000
*                                                                       01710000
*****************************************************************      01720000
      @GENFDR ,                                                        01730000
      END                                                              01810000
```

APPENDIX D

DEFAULT MAP OF LOGONID RECORD

```
         MACRO                                                  ACF 20  00010000
         LIDREC &DSECT=YES,&SIZE=1024                           ACF 20  00020000
LIDREC   ACDEF &DSECT                                           ACF 20  00030000
*                                                               ACF 20  00040000
*              MAP OF LOGONID RECORD                            ACF 20  00050000
*                                                               ACF 400 00051000
*                                                               ACF 400 00052000
*  LICENSE:                                                     ACF 400 00053000
*                                                               ACF 400 00054000
*     THIS MACRO IS A PART OF THE ACF2 SYSTEM, A LICENSED       ACF 400 00055000
*     PROGRAM PRODUCT OF SKK, INC.                              ACF 400 00056000
*                                                               ACF 400 00057000
*                                                               ACF 400 00058000
*                                                               ACF 20  00060000
         COPY  ACFLID              OBTAIN FIXED ACF2 LID AREA   ACF 22  00070000
*****************************************************************       00010000
*                                                                       00020000
* ACFLID - ACF2 FIXED AREA OF THE LOGONID RECORD                ACF 22  00030000
*          NOT TO BE MODIFIED BY THE INSTALLATION               ACF 22  00040000
*                                                               ACF 22  00050000
*  ACFLID AND LIDREC ARE PART OF ACF2,                          ACF 310 00060000
*  A LICENSED PROGRAM PRODUCT OF SKK. INC.  (1978, 1979)        ACF 310 00070000
*                                                               ACF 22  00080000
*****************************************************************       00090000
LIDBEGIN DS    XL320     ACF2 RESERVED SPACE                    ACF 22  00100000
LIDIFLDS DS    XL192     START OF INSTALLATION AREA             ACF 22  00110000
LIDNEWA  DS    CL320     ACF2 EXTENDED RESERVED SPACE           TS73974 00120000
LIDNEWU  DS    CL192     START OF EXTENDED INSTALLATION         TS73974 00130000
LIDBOTOM EQU   *         END OF LOGONID RECORD                  ACF 22  00140000
         ORG   LIDBEGIN START AT ACF2 FIXED AREA                ACF 22  00150000
*                                                                       00160000
LIDLID   DS    CL8   LOGON ID - INDEX FOR THIS RECORD           ACF 20  00170000
*                                                                       00180000
LIDCFLAG DS    X     CANCEL/SUSPEND/MONITOR/TRACE FLAGS         ACF 20  00190000
LIDCCAN  EQU   X'80'   LOGONID CANCELLED                       ACF 20  00200000
LIDCSUS  EQU   X'40'   LOGONID SUSPENDED                       ACF 20  00210000
LIDCMLOG EQU   X'08'   LOGONID MONITOR LOG REQUESTED           TS78019 00220000
LIDCTSO  EQU   X'04'   LOGONID TSO COMMAND RECORDS TRACE       ACF 20  00230000
LIDCTRC  EQU   X'02'   LOGONID TRACE REQUESTED                 ACF 20  00240000
LIDCMON  EQU   X'01'   LOGONID MONITOR REQUESTED               ACF 20  00250000
*                                                                       00260000
LIDTFLAG DS    X     USER TYPE FLAGS                            ACF 20  00270000
LIDTSEC  EQU   X'80'   SECURITY OFFICER PRIVILEGES             ACF 20  00280000
LIDTACT  EQU   X'40'   ACCOUNTING PRIVILEGES                   ACF 20  00290000
LIDTAUD  EQU   X'20'   AUDITING PRIVILEGES                     ACF 20  00300000
LIDTCONS EQU   X'10'   CONSULTANT                              ACF 20  00310000
LIDTLDR  EQU   X'08'   PROJECT LEADER                          ACF 20  00320000
LIDTUSR  EQU   X'01'   NORMAL USER                             ACF 20  00330000
*                                                                       00340000
LIDMFLG  DS    X     MISCELLANEOUS FLAGS                                00350000
```

DEFAULT MAP OF LOGONID RECORD

```
LIDMRST  EQU   X'80'   USE RESTRICTED TO PRODUCTION SUBMITTED JOBS        00360000
LIDMNCNL EQU   X'40'   NON-CANCELLABLE FOR SECURITY REASONS              00370000
LIDMRSTA EQU   X'20'   SUBMISSION RESTRICTED TO AUTHORIZED PGMS          00380000
LIDMBLP  EQU   X'10'   BYPASS LABEL PROCESSING AUTHORIZATION FLG         00390000
LIDMNSTO EQU   X'08'   USER NOT ALLOWED TO STORE RULES                   00400000
LIDMADMP EQU   X'04'   TAKE AUTO-SVC-DUMP AT 1ST VIOLATION               00410000
LIDMRDMP EQU   X'02'   RESTRICTED DUMP AUTHORIZATION                     00420000
LIDMSTC  EQU   X'01'   LOGONID FOR STC USE ONLY                          00430000
*                                                                       00440000
LIDNDAYS DS    AL1     MAX DAYS BETWEEN PASSWORD CHANGES        ACF 20  00450000
LIDNAME  DS    CL20    NAME OF USER                             ACF 20  00460000
LIDPHONE DS    CL12    TELEPHONE NUMBER                         ACF 20  00470000
LIDLUPT  DS    XL8     TIME STAMP OF LAST UPDATE TO THIS RECORD ACF 20  00480000
LIDPSWD  DS    F       ENCODED RESULT OF PASSWORD               ACF 20  00490000
LIDPSTOD DS    XL8     TIME STAMP OF LAST PASSWORD CHANGE       ACF 20  00500000
LIDTCMDS DS    CL8     TSO COMMAND LIMITING LIST                ACF 20  00510000
LIDCDATE DS    PL4     DATE THAT LAST LIDCFLAG WAS SET          ACF 20  00520000
LIDCWHO  DS    CL8     LOGONID THAT LAST SET LIDCFLAG BIT       TS73844 00530000
LIDSECV  DS    H       ACCUMULATED COUNT OF SECURITY VIOLATIONS ACF 20  00540000
LIDIPSD  DS    H       INVALID PASSWORD COUNT ACCUMULATOR       ACF 20  00550000
LIDIPDAT DS    PL4     ON THIS DATE                             ACF 20  00560000
LIDASCOP DS    CL8     MASK LIMITING SCOPE OF SECURITY/ACCOUNT/LEADER   00570000
LIDSSCOP DS    CL8     MASK LIMITING SCOPE OF SECURITY ACCESS ONLY       00580000
LIDPFX   DS    CL8     OWNED DATASET PREFIX MASK                ACF 22  00590000
LIDADATE DS    PL4     DATE OF LAST SYSTEM ACCESS               ACF 20  00600000
LIDATIME DS    F       TIME IN .01 SECONDS OF LAST SYSTEM ACCESS        00610000
LIDACCNT DS    F       SYSTEM ACCESS COUNT                      ACF 20  00620000
LIDRSUPB DS    CL8     MASK OF SUBMITTING PROGRAMS FOR RESTICTED ACCTS  00630000
*                                                                       00640000
*-------------------------------------------------------------          00650000
*        TSO USER PROFILE SECTION                                       00660000
*-------------------------------------------------------------          00670000
LIDACCT  DS    CL40    ACCOUNT, FROM ACCT()                     ACF 20  00680000
LIDPROC  DS    CL8     PROC NAME, FROM PROC()                   ACF 20  00690000
LIDSIZE  DS    H       REGION SIZE                              ACF 20  00700000
LIDPERF  DS    X       PERFORMANCE GROUP                        ACF 20  00710000
*                                                                       00720000
LIDLINE  DS    C       LINE DELETE CHARACTER                    ACF 20  00730000
LIDLATTN EQU   X'37'      ATTN SPECIFIED AS LINE DELETE CHAR            00740000
LIDLCTLX EQU   X'18'      CTLX SPECIFIED AS LINE DELETE CHAR            00750000
*                                                                       00760000
LIDCHAR  DS    C       BACKSPACE CHARACTER                           00770000
LIDCBS   EQU   X'16'      BS SPECIFIED AS CHAR DELETE CHAR              00780000
*                                                                       00790000
LIDTFLGS DS    0XL2    ATTRIBUTE FLAGS                          ACF 20  00800000
LIDTFLG1 DS    X          LOGON SPECIFICATION FLAG              ACF 20  00810000
LIDT1ACC EQU   X'80'      ACCT OVERRIDE AT LOGON                ACF 20  00820000
LIDT1PRC EQU   X'40'      PROC OVERRIDE AT LOGON                ACF 20  00830000
LIDT1SIZ EQU   X'20'      REGION SIZE OVERRIDE AT LOGON                 00840000
LIDT1PER EQU   X'10'      PERFORMANCE OVERRIDE AT LOGON                 00850000
```

DEFAULT MAP OF LOGONID RECORD

```
LIDT1BYP EQU   X'08'      BYPASS COMMAND LIST AUTHORITY                    00860000
LIDT1UNT EQU   X'04'      ALLOW UNIT AT LOGON                 ACF 22       00870000
LIDT1MSG EQU   X'02'      ALLOW MSGCLASS AT LOGON             ACF 22       00880000
LIDT1TIM EQU   X'01'      ALLOW TIME AT LOGON                 ACF 22       00890000
*                                                                          00900000
LIDTFLG2 DS    X        ATTRIBUTE DESCRIPTION FLAGS                        00910000
LIDT2MAL EQU   X'80'      MAIL / NOMAIL                       ACF 20       00920000
LIDT2NOT EQU   X'40'      NOTICES / NONOTICES                 ACF 20       00930000
LIDT2PRO EQU   X'20'      PROMPT / NOPROMPT                   ACF 20       00940000
LIDT2INT EQU   X'10'      INTERCOM / NOINTERCOM               ACF 20       00950000
LIDT2PAU EQU   X'08'      PAUSE / NOPAUSE                     ACF 20       00960000
LIDT2MSG EQU   X'04'      MSGID / NOMSGID                     ACF 20       00970000
LIDT2MOD EQU   X'02'      MODE / NOMODE                       ACF 20       00980000
LIDT2WTP EQU   X'01'      WTP / NOWTP                         ACF 20       00990000
*                                                                          01000000
LIDTFLG3 DS    X        ATTRIBUTE FLAGS                     ACF 20       01010000
LIDT3OPR EQU   X'80'      OPERATOR COMMAND                    ACF 20       01020000
LIDT3ACC EQU   X'40'      ACCOUNT(TSO) COMMAND                ACF 20       01030000
LIDT3JCL EQU   X'20'      JCL/SUBMIT COMMAND                  ACF 20       01040000
LIDT3MNT EQU   X'10'      MOUNT AUTHORIZATION                 ACF 20       01050000
LIDT3RVR EQU   X'08'      EDIT RECOVER AUTH.                  ACF 21       01060000
LIDT3RCV EQU   X'04'      EDIT RECOVER PROFILE                ACF 21       01070000
LIDT3CMD EQU   X'02'      LONG FORM CMDS REQUIRED             ACF 22       01080000
LIDT3R1  EQU   X'01'      *** RESERVED ***                    ACF 21       01090000
*                                                                          01100000
LIDTUNIT DS    CL8      GENERIC UNIT NAME                   ACF 20       01110000
LIDTDRMT DS    CL8      DEFAULT REMOTE DESTINATION          ACF 20       01120000
LIDTSUBH DS    C        DEFAULT SUBMIT HOLD CLASS           ACF 21       01130000
LIDTSUBC DS    C        DEFAULT SUBMIT CLASS                ACF 21       01140000
LIDTSUBM DS    C        DEFAULT SUBMIT MSGCLASS             ACF 21       01150000
LIDTSOUT DS    C        DEFAULT SYSOUT CLASS                ACF 21       01160000
LIDTMAXS DS    XL2      MAX SIZE IF NOT AUTH.               ACF 21       01170000
LIDTAT2  DS    XL2      PSCB ATR2 FIELD (PCF)               ACF 21       01180000
LIDTAT12 DS    X        PSCB ATR1 + 1 FIELD                 ACF 21       01190000
*                       RESERVED BY IBM                     ACF 21       01200000
*                                                                          01210000
LIDTFLG4 DS    X        TSO FLAGS BYTE4                     ACF 22       01220000
LIDT4ACC EQU   X'80'      VALIDATE ACCOUNT(MULTI)             ACF 22       01230000
LIDT4PRC EQU   X'40'      VALIDATE PROCS                      ACF 22       01240000
LIDT4PAC EQU   X'20'      ALWAYS PROMPT FOR ACCT              ACF 22       01250000
LIDT4PPR EQU   X'10'      ALWAYS PROMPT FOR PROC              ACF 22       01260000
LIDT4OID EQU   X'08'      USER MUST ENTER OID CARD            TS75360      01270000
LIDT4ALL EQU   X'04'      USER MUST ENTER ALL CARDS           TS75360      01280000
LIDT4FSC EQU   X'02'      TSO FULLSCREEN ALLOWED              TS75360      01290000
LIDT4IND EQU   X'01'      PERMISSION BIT FOR INDEX KEYWORD                 01300000
*                                                                          01310000
LIDTTIME DS    XL2      TSO TIME ON JOBCARD                 ACF 22       01320000
*                                                                          01330000
*-------------------------------------------------------------------       01340000
*                                                                          01350000
```

DEFAULT MAP OF LOGONID RECORD

```
LIDM2FLG DS    X       MISCELLANEOUS FLAGS                      ACF 22  01360000
LIDM2PBL EQU   X'80'      PSEUDO BLP PERMISSION                 ACF 22  01370000
LIDM2IMS EQU   X'40'      STD IMS PERMISSION                    ACF 221 01380000
LIDM2CIC EQU   X'20'      STD CICS PERMISSION                   ACF 221 01390000
LIDM2TSO EQU   X'10'      STD TSO PERMISSION                    ACF 222 01400000
LIDM2JOB EQU   X'08'      STD JOB PERMISSION                    TS72379 01410000
LIDM2RDA EQU   X'04'      READALL ACCESS PERMISSION             TS73833 01420000
LIDM2VLD EQU   X'02'      READ RULES FOR EACH ACCESS            TS73849 01430000
LIDM2PXP EQU   X'01'      FORCE PSWD EXPIRED                    ACF 222 01440000
*                                                               TS77555 01450000
LIDIDLE  DS    AL1     MAX IDLE TIME (MIN) IMS.                 ACF 221 01460000
*                                                               TS77555 01470000
LIDI1FLG DS    X       RESERVED FOR INSTALLATION                ACF 22  01480000
LIDI1F1  EQU   X'80'      FLAG 1                                ACF 22  01490000
LIDI1F2  EQU   X'40'      FLAG 2                                ACF 22  01500000
LIDI1F3  EQU   X'20'      FLAG 3                                ACF 22  01510000
LIDI1F4  EQU   X'10'      FLAG 4                                ACF 22  01520000
LIDI1F5  EQU   X'08'      FLAG 5                                ACF 22  01530000
LIDI1F6  EQU   X'04'      FLAG 6                                ACF 22  01540000
LIDI1F7  EQU   X'02'      FLAG 7                                ACF 22  01550000
LIDI1F8  EQU   X'01'      FLAG 8                                ACF 22  01560000
*                                                                       01570000
LIDI2FLG DS    X       RESERVED FOR INSTALLATION                ACF 22  01580000
LIDI2F1  EQU   X'80'      FLAG 1                                ACF 22  01590000
LIDI2F2  EQU   X'40'      FLAG 2                                ACF 22  01600000
LIDI2F3  EQU   X'20'      FLAG 3                                ACF 22  01610000
LIDI2F4  EQU   X'10'      FLAG 4                                ACF 22  01620000
LIDI2F5  EQU   X'08'      FLAG 5                                ACF 22  01630000
LIDI2F6  EQU   X'04'      FLAG 6                                ACF 22  01640000
LIDI2F7  EQU   X'02'      FLAG 7                                ACF 22  01650000
LIDI2F8  EQU   X'01'      FLAG 8                                ACF 22  01660000
*                                                                       01670000
LIDEXPDT DS    PL4     LOGONID USE EXPIRATION DATE              ACF 230 01680000
LIDLENEX EQU   *-LIDREC   LIDREC LENGTH WITH EXPDT              TS72140 01690000
         DS    C       RESERVED                                 TS73637 01700000
LIDCOPRL DS    XL3     CICS OPERATOR RESOURCE KEY               TS73637 01710000
LIDTPPFX DS    CL7     DEFAULT TSO DSN PREFIX                   TS72173 01720000
         DS    C       RESERVED                                 TS72173 01730000
LIDUSCOP DS    CL24    UID MASK TO LIMIT LID ACCESS             ACF 22  01740000
LIDSRCE  DS    CL8     SOURCE RESTRICTION GROUP                 ACF 22  01750000
LIDCOPID DS    CL3     CICS OPERATOR ID                         ACF 222 01760000
LIDCOPPR DS    X       CICS OPERATOR PRIORITY                   ACF 222 01770000
LIDCOPCL DS    CL3     CICS OPERATOR CLASS                      ACF 222 01780000
LIDCOPKY DS    XL3     CICS SECURITY KEY                        ACF 222 01790000
*                                                                       01800000
LIDMUSAS DS    X       MUSASS CONTROL FLAGS, REF ASVFLAG3       ACF 222 01810000
LIDMURUL EQU   X'80'      RES-RULE UPDATE                       ACF 222 01820000
LIDMUSMC EQU   X'40'      NO STEP-MUST-COMPLETE                 TS73844 01830000
LIDMUSID EQU   X'20'      //*JOBFROM USE AUTHORITY              ACF 222 01840000
LIDMUMUS EQU   X'01'      ADDRSPC IS MUSASS                     ACF 222 01850000
```

DEFAULT MAP OF LOGONID RECORD

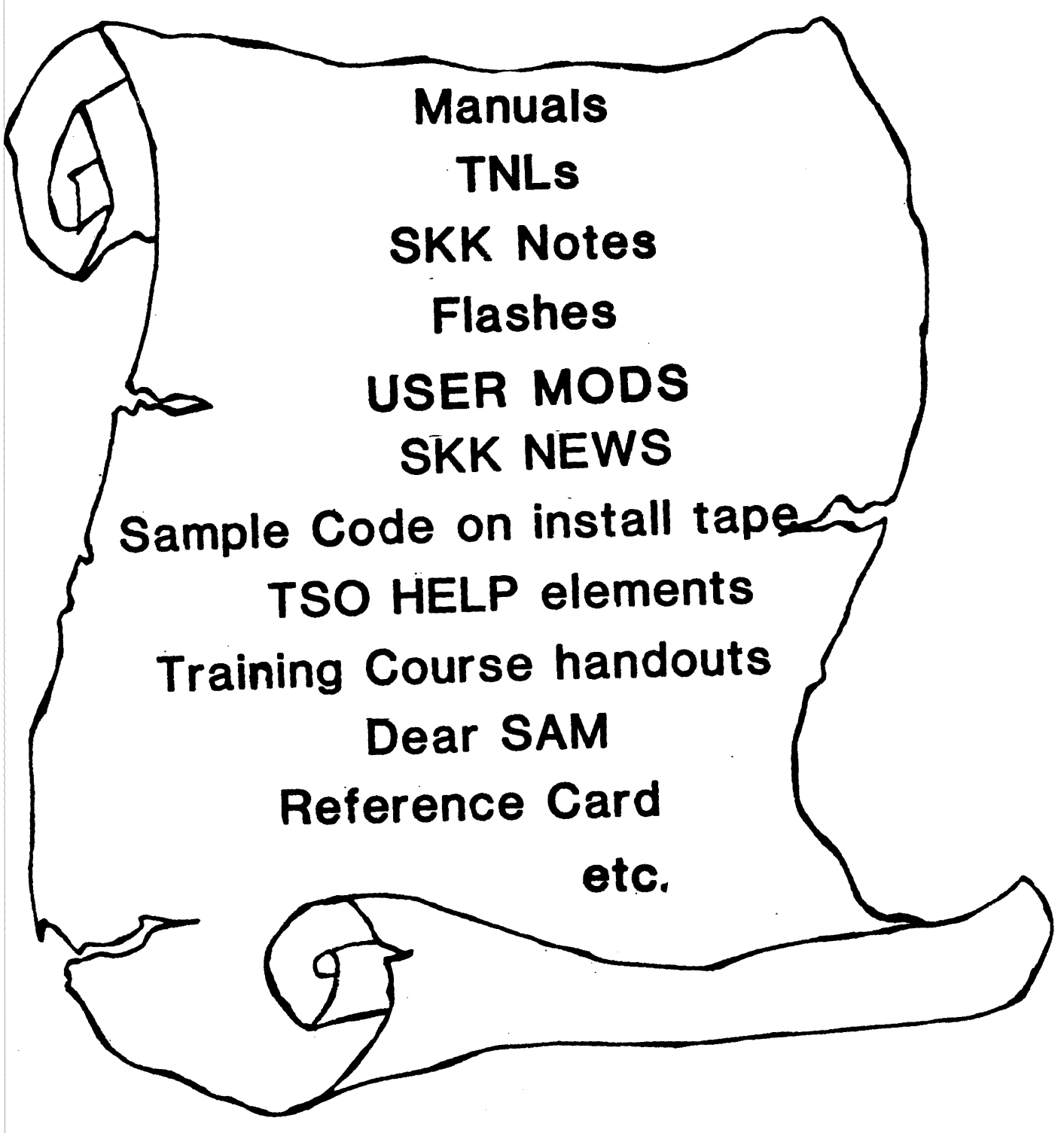
```
*                                                                       01860000
LIDZONE  DS    CL3      TIME ZONE NAME                          TS73827 01870000
LIDSHIFT DS    CL8      TIME SHIFT NAME - SYS ACCESS            TS73827 01880000
LIDSCPL  DS    CL8      SCOPE LIST NAME IN DB                   TS73800 01890000
*                                                              TS77555 01900000
LIDM3FLG DS    X        MORE MISCELLANEOUS FLAGS                TS73827 01910000
LIDM3SFT EQU   X'80'       ALLOW & LOG SYS ACCESS OUTSIDE SHIFT TS73827 01920000
*                                                              TS77555 01930000
LIDMINDY DS    X        MIN DAYS BETWEEN PSWD CHANGES           TS73851 01940000
LIDNPSWD DS    CL8      NEW PASSWORD FIELD 3.1.4                        01950000
*                                                              TS77555 01960000
LIDFLAG5 DS    X        MISC. FLAGS                             TS75360 01970000
LID5MAIN EQU   X'80'       MAINT PRIVILEGE                    TS75360 01980000
LID5REFR EQU   X'40'       REFRESH PRIVILEGE                  TS77555 01990000
*                                                                      02000000
LIDCOPKX DS    CL5      CICS SECURITY KEY EXTENSIONS            TS75222 02010000
*                                                              TS75222 02020000
LIDBLEN  EQU   *-LIDLID   LENGTH OF USED SKK SECTION           ACF 20  02030000
         ORG   LIDIFLDS   RESET TO INSTALLATION AREA           ACF 22  02040000
*                                                                      02050000
*******  START OF INSTALLATION DEFINED FIELDS  *******         ACF 22  00080000
         COPY  USERLID             OBTAIN USER AREA OF LID     ACF 22  00090000
*        COPY  USERLID             IN LIDREC MACRO             ACF 22  00010000
*************************************************************  ACF 22  00020000
*                                                              ACF 22  00030000
*  USERLID - THIS SOURCE MATERIAL IS COPIED INTO THE USER      ACF 22  00040000
*            DEFINITION SECTION OF THE LOGONID RECORD 'DSECT'. ACF 22  00050000
*            THE INSTALLATION MAY REPLACE THIS MODULE OR      ACF 22  00060000
*            EDIT IN ITEMS WHICH ARE TO BE DEFINED BY @CFDE   ACF 22  00070000
*            MACRO ENTRIES IN THE ACFFDR.  THE LENGTH ATTRIBUTE ACF 22 00080000
*            OF EACH SYMBOL DEFINED HERE IS USED IN THE RELATED ACF 22 00090000
*            @CFDE MACRO EXPANSION.                           ACF 22  00100000
*                                                             ACF 22  00110000
*  NOTE -- THE TOTAL LENGTH OF ALL INSTALLATION ADDED SYMBOLS ACF 22  00120000
*          SHOULD NOT EXCEED 192(DECIMAL), C0(HEX) BYTES.     ACF 22  00130000
*                                                             ACF 22  00140000
*************************************************************  ACF 22  00150000
************* END OF USERLID ********************************  ACF 22  00160000
*******  END OF INSTALLATION DEFINED FIELDS    *******         ACF 22  00100000
         AIF   ('&SIZE' EQ '512').SHORT                        TS73974 00110000
         AIF   ('&SIZE' EQ '1024').LONG                        TS73974 00120000
         MNOTE 8,'INVALID FORM SPECIFIED'                      TS73974 00130000
 LONG    ANOP                                                  TS73974 00140000
         ORG   LIDNEWA             RESET TO START OF NEW SKK AREA 73431 00150000
         COPY  ACFXLID             OBTAIN EXTENDED LID AREA    TS73974 00160000
         SPACE 1                                                       00010000
* ACFXLID - ACF2 EXTENDED FIXED AREA OF THE LOGONID RECORD      TS73974 00020000
*           NOT TO BE MODIFIED BY THE INSTALLATION              TS73974 00030000
*                                                                       00040000
*  ACFXLID AND LIDREC ARE PART OF ACF2,                         ACF 310 00050000
```

DEFAULT MAP OF LOGONID RECORD

```
*  A LICENSED PROGRAM PRODUCT OF SKK,. INC.  (1978, 1979)        ACF 310 00060000
*                                                                        00070000
         SPACE 1                                                        00080000
LIDXAREA DS    0XL320            ACF2 RESERVED SPACE             TS73974 00090000
LIDXSRCE DS    CL8               SOURCE OF LAST SYSTEM ACCESS    TS73974 00100000
LIDTRBA  DS    CL3               TSO RBA FIELD                   TS77263 00110000
LIDMAUTH DS    XL1               ACF2 SUPPORTED MUSASS AUTH'S    IDMS200 00120000
LIDMAIDM EQU   X'80'              STD IDMS PERMISSION             IDMS200 00130000
         DS    XL4               - RESERVED                      IDMS200 00140000
LIDMUOPT DS    CL8               MUSASS OPTIONS RECORD KEY       IDMS200 00150000
LIDMUPGM DS    CL8               MUSASS EXEC (PGM=******) NAME   IDMS200 00160000
LIDXINDX DS    CL8               DEFAULT UADS TREE STRUCT NDX    TS75360 00170000
         SPACE 2                                                        00180000
LIDXBLEN EQU   *-LIDLID  LENGTH OF USED SKK SECTION               TS73974 00190000
         ORG   LIDNEWU            RESET TO EXTENDED USER AREA    TS73974 00200000
         SPACE 2                                                        00210000
******   END OF EXTENDED SKK RESERVED AREA ********               TS73974 00170000
         COPY  USERXLID             OBTAIN EXTENDED USER AREA    TS73974 00180000
*        COPY  XUSERLID             IN LIDREC MACRO              ACF 22  00010000
*****************************************************************ACF 22  00020000
*                                                                 ACF 22  00030000
*  USERLID - THIS SOURCE MATERIAL IS COPIED INTO THE EXTENDED             00040001
*            USER DEFINITION SECTION OF THE LOGONID RECORD DSECT.CF 22    00041001
*            THE INSTALLATION MAY REPLACE THIS MODULE OR          ACF 22  00060000
*            EDIT IN ITEMS WHICH ARE TO BE DEFINED BY @CFDE       ACF 22  00070000
*            MACRO ENTRIES IN THE ACFFDR.  THE LENGTH ATTRIBUTE   ACF 22  00080000
*            OF EACH SYMBOL DEFINED HERE IS USED IN THE RELATED   ACF 22  00090000
*            @CFDE MACRO EXPANSION.                               ACF 22  00100000
*                                                                 ACF 22  00110000
*  NOTE -- THE TOTAL LENGTH OF INSTALLATION ADDED SYMBOLS         ACF 22  00120001
*          WITHIN THE EXTENDED AREA SHOULD NOT EXCEED             ACF 22  00130001
*          192(DECIMAL), C0(HEX) BYTES.                           ACF 22  00131001
*                                                                 ACF 22  00140000
*****************************************************************ACF 22  00150000
************* END OF USERLID ************************************ACF 22  00160000
******   END OF EXTENDED USER AREA ********                       TS73974 00190000
LIDTLEN  EQU   *-LIDLID  LENGTH OF SKK RESERVED + INSTALLATION    ACF 22  00200000
         ORG   LIDBOTOM           RESET END OF LIDREC             ACF 22  00210000
         AGO   .CONT                                              TS73974 00220000
 SHORT   ANOP                                                     TS73974 00230000
         ORG   LIDNEWA            RESET END OF LIDREC             TS73974 00240000
 CONT    ANOP                                                     TS73974 00250000
LIDLEN   EQU   *-LIDREC           LENGTH OF RECORD                ACF 22  00260000
         MEND                                                     ACF 20  00270000
```

APPENDIX E

ACF2 DOCUMENTATION



Revised: 07/30/83

ACF2 DOCUMENTATION

The following ACF2 documentation is produced and distributed by SKK:

MANUALS:

Auditor's Guide

CICS Support Manual

Field Definition Record Generation Manual

General Information Manual

Implementation Planning Guide

IMS Support Manual

Messages Manual

Overview

System Programmer's Guide

Administrator's Guide

Utilities Manual

Other Products Manual

+Composite Index for Above Manuals

Note: Changes to these documents are published periodically as necessary via TNL's (Technical Newsletters).

SKK NOTES:

These are serially numbered additions to the total documentation package and cover a variety of ACF2 related topics. These describe ideas or "how to's" for aspects or uses of ACF2 not directly built into the program, and therefore not directly covered in any of the standard manuals listed above.

Revised: 10/9/84

FLASHES:

These contain announcements of relatively severe problems (and their fixes) where SKK feels it is inappropriate to wait until a more formal document (e.g. New release) is produced. They are numbered with a two digit year followed by a sequential number (e.g. 82-1 and 82-2 for the first two 1982 Flashes).

SKK NEWS:

This document is a bimonthly newsletter which announces upcoming product changes and events, reports on significant happenings, introduces new ideas and activities, and generally serves to inform SKK customers of current interesting projects and user information.

INSTALL TAPE:

Besides containing the basic system and related utilities, report generators, jobstreams, etc., the ACF2 Install Tape also contains various sample jobstreams, exit coding, other product interfaces, and other useful aids. It also includes elements to add to TSO HELP for all ACF2 commands and subcommands.

USER MODIFICATIONS CATALOG:

As a service to customers, SKK provides a User Modifications Tape containing user-written interfaces to the ACF2 system. The User Modifications Catalog provides a summary of the contents of the tape, as well as descriptions and samples of non-machine readable written materials submitted by ACF2 users (such as access control forms). The catalog is distributed free-of-charge and the MODSTAPE is available at a nominal fee.

TRAINING COURSE HANDOUTS:

The copies of transparencies used in the four-day ACF2 training class, plus some other ACF2 reference materials, are included in the ACF2 Training Class binder which is provided to each class attendee.

Revised: July 28, 1983

AUDITOR'S GUIDE

* AUDIT PLANNING
* SCOPE OF ACF2
* SYSTEM ACCESS CONTROLS
* LOGONID RECORD CONSIDERATION
* DATASET ACCESS CONTROL
* RESOURCE ACCESS CONTROL
* PROGRAM CONTROLS
* REPORTS AND AUDIT TRAILS
* CONVERSION TO ACF2
* APPENDICES ON:
  - ACF COMMAND IN BATCH
  - SAMPLE SHOW OUTPUTS
  - RULE WRITING EXAMPLES
  - SAMPLE AUDIT SURVEY QUESTIONS

Revised: March 9, 1983

CICS SUPPORT MANUAL

* INCLUDES SECTIONS ON
  - INTRODUCTION
  - ONLINE ENVIRONMENT
  - ACF2/CICS SUPPORT MODULES
  - ACF2/CICS PARAMETER SELECTION
  - LOGONID RECORD CONSIDERATIONS
  - CICS OPTION SELECTION
  - SOURCE NAMES AND RECONFIGURATION
  - GLOBAL AND LOCAL DIRECTORIES
  - STORAGE AND PERFORMANCE ESTIMATES
  - EXAMPLES
  - REPORT GENERATORS
  - INSTALLATION OF ACF2/CICS SUPPORT
  - JOB SUBMISSION
  - INDEX

FIELD DEFINITION RECORD GENERATION

* INCLUDES DESCRIPTIONS OF EACH ACF2 FDR MACRO AND ATTACHMENTS SHOWING THE DEFAULT ACFFDR AND DEFAULT LIDREC VALUES.

Revised: March 9, 1983

GENERAL INFORMATION MANUAL

* INCLUDES SECTIONS ON
  - INTRODUCTION
  - FUNCTIONAL OVERVIEW
  - SYSTEM ACCESS CONTROL
  - DATA ACCESS CONTROL
  - GENERALIZED RESOURCE CONTROL
  - STARTED TASK CONTROL
  - INFORMATION STORAGE
  - TSO ENHANCEMENTS
  - EXTENDABILITY TO NON-TSO INTERACTIVE SYSTEMS
  - BACKUP AND RECOVERY
  - FIELD DEFINITION RECORD GENERATION
  - UTILITIES
  - INSTALLATION EXITS
  - ACF2 MAINTENANCE

Revised: 07/30/83

IMPLEMENTATION PLANNING GUIDE

* INTRODUCTION
* PRE-PLANNING
* FIRST ACF2 IPL
* CONVERSION TO FULL SECURITY
* GENERAL TECHNICAL CONSIDERATIONS

Revised: March 9, 1983

IMS SUPPORT MANUAL

* INCLUDES SECTIONS ON

- INTRODUCTION
- ONLINE ENVIRONMENT
- MESSAGE PROCESSING REGION ENVIRONMENT
- ACF2/IMS SUPPORT MODULES
- ACF2/IMS PARAMETER SELECTION
- USING SHIFT AND ZONE RECORDS IN AN IMS ENVIRONMENT
- LOGONID RECORD CONSIDERATIONS
- IMS OPTION SELECTION (IMS GEN)
- SOURCE NAMES AND RECONFIGURATION
- GLOBAL AND LOCAL DIRECTORIES
- STORAGE AND PERFORMANCE ESTIMATES
- EXAMPLES
- REPORT GENERATORS
- INSTALLATION OF ACF2/IMS SUPPORT
- OTHER IMS CONSIDERATIONS
- LOGONID RECORD MAINTENANCE THROUGH IMS

Revised: March 9, 1983

MESSAGES MANUAL

* MACHINE READABLE VERSION ON TAPE

* INCLUDES ALL ACF2 MESSAGES, GROUPED BY
  - JES2/JES3 PROCESSING
  - FILE INITIALIZATION
  - ACF2 DATABASE MANAGEMENT SUPPORT
  - JOB VALIDATION
  - LOGONID DATABASE PROCESSING
  - ACCESS RULE DATABASE PROCESSING
  - INFORMATION STORAGE DATABASE PROCESSING
  - MULTI-USER SINGLE ADDRESS SPACE SUPPORT
  - ACF2 UTILITIES
  - ACF COMMAND
  - ACF2 RULE PROCESSING UTILITIES
  - ACF2 MAIN SUPPORT TASK
  - ACF2 CENTRAL SECURITY
  - ACF2 EXTERNAL SECURITY (ASM2, FDR/DSF, ROSCOE, IMS)
  - ACF2/IMS
  - ACF2/JES3

OVERVIEW

* GENERAL OVERVIEW OF DESIGN PHILOSOPHY AND BASIC FEATURES.

Revised: March 9, 1983

SYSTEM PROGRAMMERS GUIDE

* INCLUDES SECTIONS ON
  - INSTALLATION OF ACF2
  - INTRODUCTION
  - MAPPING MACROS
  - MACRO DESCRIPTIONS
  - EXIT DESCRIPTIONS
  - ENTRY VALIDATION
  - LOGONID DATABASE UPDATING
  - RULE DATABASE UPDATING
  - GENERALIZED RESOURCE AND INFO STORAGE INTERFACE
  - DATASET/PROGRAM VALIDATION
  - MULTI-USER SINGLE ADDRESS SPACE SYSTEMS
  - JES2 AND NJE SUBSYSTEMS
  - JES3 SUBSYSTEM
  - SUPPORT SUBROUTINES
  - DATASET LOGGING SUPPRESSION
  - SYSTEM ACCESS WITH ACF2 NOT ACTIVE
  - ACF2 SUPPLIED ROUTINES FOR OTHER PRODUCTS
  - TSO RESTRICTED COMMANDS LIST
  - TSO COMMAND VALIDATION
  - TSO COMMAND RECORDS
  - TSO APF AUTHORIZED COMMANDS LIST
  - TSO APF AUTHORIZED CALL MODULES LIST
  - TSO GENERALIZED PATH CONTROL

* PLUS APPENDICES AND ATTACHMENTS ON
  - ACF2 ABEND CODES
  - SUPPLIED RESTRICTED COMMANDS LIST
  - LOGON EXIT PARAMETER CSECTS
  - SAMPLE SVC EXITS
  - CONTROL BLOCK DESCRIPTIONS

Revised: 10/9/84

ADMINISTRATOR'S GUIDE

* INCLUDES SECTIONS ON

- INTRODUCTION
- OVERVIEW OF ACF2
- USING THE COMPUTER SYSTEM
- SPECIAL ACF2 USERS
- THE ACF COMMAND
- DEFINING USERS TO ACF2
- CHANGING FIELDS
- WRITING ACCESS RULES
- WRITING GENERAL RESOURCE RULES
- CREATING SOURCE ENTRIES
- DEFINING SCOPE LISTS
- DEFINING SHIFTS
- DEFINING GLOBAL SYSTEM OPTIONS
- CONSOLE OPERATOR COMMANDS
- OVERVIEW OF REPORTS & UTILITIES

Revised: 10/9/84

UTILITIES MANUAL

* INCLUDES SECTIONS ON

  - INTRODUCTION
  - REPORT GENERATORS
  - REPORT GENERATOR INSTALLATION EXITS (FOR SPECIALIZED SELECTION)
  - DATABASE RECOVERY
  - GENERAL UTILITIES

* EACH UTILITY DESCRIPTION INCLUDES SAMPLE JOB JCL

* EACH REPORT GENERATOR DESCRIPTION INCLUDES SAMPLE OUTPUTS

Revised: March 9, 1983

DISTRIBUTION TAPE CONTENTS - GENERA

- JOB TO UNLOAD OTHER FILES AND CREATE DATASETS

- MODULES TO BUILD ACF2 SYSTEM

- MACRO AND SOURCE MODULES FOR JES AND ACF2 ASSEMBLIES (FDR)

- PROCLIB PROCEDURES FOR SMP, ASSEMBLIES, LINKEDITS, AND SUB-SYSTEM START

- PRE-INSTALLATION SMP JCL, PTF'S, AND JES SOURCE EDIT STATEMENTS, PLUS PROCEDURES AND JOBSTREAMS

- TSO HELP ENTRIES FOR ACF2 COMMANDS

- CLIST'S, SAMPLE JOBSTREAMS, AND PROCEDURES FOR INSTALLATION ASSISTANCE ("ACFJOBS")

Revised: March 9, 1983

DISTRIBUTION TAPE CONTENTS - "ACFJOBS"

* 'S ACF2' PROCEDURES FOR PRIME AND SECONDARY CPUs, AND FOR ALTERNATES (DISASTER RECOVERY)

* JOBS TO ASSEMBLE AND LINK ACF2 INTERFACES WITH OTHER SELECTED PRODUCTS.

* SAMPLE "PROFILE" CLIST

* DISASTER RECOVERY SAMPLE JOB

* SAMPLE ACF2 JOBSTREAMS FOR
  - REPORT GENERATORS
  - CREATING AND INITIALIZING VSAM CLUSTERS

* SAMPLE CLIST FOR CONVERSION OF TSO (UADS) INFORMATION TO ACF2 USER RECORDS

* OTHER JOBS

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APPENDIX F

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ACF2 TRAINING CLASS ACRONYM GLOSSARY

ABEND - Abnormal end. Task terminated "abnormally" for one of many possible reasons, including security violations. Code associated with ABEND message explains reason for termination.

ACCVT - ACF2 Communication Vector Table pointer.

ACFASVT - ACF2 Communication Address Space Vector Table.

ACFFDR - ACF2's Field Definition Record. A collection of macros, used to define most installation options to ACF2.

ACFLID - One member of LIDREC Logonid Record description. Contains SKK's Standard ACF2 LIDREC fields. See also USERLID.

ACUCB - ACF2 User Control Block used in referring to an ACF2 user address space.

APF - Authorized Program Facility. A standard IBM facility. Programs which are APF-authorized can run in supervisor state, e.g., can bypass certain system controls.

ASCB - Address Space Control Block.

ASCII - American Standard Code for Information Interchange. Standardized set of computer codes.

ASVT - Address Space Vector Table.

BLDL - Build directory in storage (PDS). BPAM-pageable directory for SYS1.LINKLIB.

BLP - Bypass Label Processing. An IBM facility which allows tape label information to be bypassed (not checked).

CFDE - Create Field Definition Entry. The macro name used by ACF2 in its Field Definition Record to describe the parameters associated with each Logonid Record data element.

CICS - Customer Information Control System. An IBM program product for application transaction processing.

CLIST - Command List. Similar to a program but only consisting of a series of TSO commands to be processed.

Revised: July 28, 1983

CLPA - Create Link Pack Area. Loads SYS1.LPALIB to a Page Dataset, at system IPL time, contents cannot be altered for life of the system IPL.

CSA - Common Storage Area. System internal storage available to all address spaces on the system (information can be shared by all users).

DASD - Direct Access Storage Device. Storage devices such as disk packs which are "on line" to the system.

DCT - Device Control Table.

DDN - Data Definition Name. Used in ACF2 rules. Refers to names used on the JCL DD Cards to link datasets to the programs that will use them.

DSCB - Dataset Control Block. Contains information about a dataset, such as DSN, record format, data created, etc. The information is stored in a standard format right on the DSN's storage device. It is similar to a tape label but for direct access devices.

DSN - Dataset Name. The name of the dataset (or file). Can be made up of multiple name "levels" of up to 8 characters each, separated by periods, up to a maximum total of 44 positions.

EOV - End of Volume. For datasets (files) which are so large as to use multiple storage volumes (e.g., 3 reels of tape), to indicate the end of one volume (but not the end of the dataset).

FDR - 1) ACF2's Field Definition Record (see ACFFDR), or
2) Innovation Data Processing's Fast Dump Restore program product.

FDRDSF - Innovation Data Processing's Fast Dump Restore/Dataset Function program product.

GDG - Generation Data Group. A family of similar datasets representing various versions (generations) of the same basic file. The DSN's are the same for each except for a generation and a version number in the last index level of the DSN.

GSR - Globally Shared Resources. A method of sharing VSAM datasets (accessable by all).

HASPSSSM - Subsystem support module.

IMS - Information Management System. IBM's major database/transaction processing system.

Revised: July 28, 1983

INFOSTG - Information Storage database. One of three ACF2 control databases. Includes generalized resource rules, source entries, etc.

I/O - Input and Output. The data going into a program or generated as output, or the instructions or processing required to read the input data and write the output.

IPL - Initial Program Loader. Used in reloading and reinitializing the operating system (starting up the CPU for processing).

JCL - Job Control Language. Used to instruct the system on how to run a job, such as scheduling and identifying which files are input and output, etc.

JCT - JES2/JES3 Job Control Table; used for storage of jobcard information.

JDAB - JES3 Job Description and accounting block.

JES - Job Entry Subsystem (e.g., JES2 or JES3). Portion of the operating system which processes the JCL and controls job/OS input and output.

JSQ - JES3 Job Select queue.

K - 1024 bytes; used in referring to storage capacity (i.e., 4K = 4096 bytes of storage).

KSDS - Key sequence dataset -- used in referring to ACF2 VSAM datasets.

LIB - Keyword for specifying program library name in ACF2 rules.

LID - Keyword for specifying a Logonid to ACF2.

LIDREC - ACF2's Logonid Record description. Defines the format of the standard Logonid record at that installation.

LPA - Link Pack Area. A portion of internal system memory containing common system routines (e.g., TSO Commands, SVC's, etc.). Cannot be changed without an IPL.

LSQA - Local System Queue Area. Separate areas of internal system storage for use by each address space (not shared).

MLPA - Modified Link Pack Area. A portion of internal system memory containing common system routines, that are to be tested prior to moving to the link pack area.

Revised: July 28, 1983

MSS - Mass Storage System. A storage device using tape cartridges which are automatically loaded/unloaded (no operator mount needed) so appear to the user as standard disk volumes.

MUSASS - Multiple User Single Address Space System. A program or subsystem that handles multiple external users in one internal address space (e.g., ROSCOE, WYLBUR, IMS, etc.).

MVS - Multiple Virtual Storage. IBM's major operating system. Allows multiple users to "simultaneously" use all system resources.

MVS/SE or MVS/SE2 - MVS with System Extension enhancements incorporated.

NJE - Network Job Entry subsystem. Connects CPUs at multiple sites for job processing (e.g., a job can be submitted at one site and processed on another CPU at another location).

OS - Operating System. The basic "programs" that handle system functions and "run" the CPU (e.g., MVS, VS1, etc.).

PCF - Program Control Facility. An IBM program product for use with TSO.

PDS - Partitioned Dataset. A special kind of dataset which has multiple "datasets" within it, each called a "member", plus its own directory for these members.

PGM - Keyword for specifying a program (or command) name to ACF2.

PLPA - Pageable Link Pack Area.

PTF - Program Temporary Fix. Coding changes to correct system program errors.

PUT - Program Update Tape. A maintenance tape containing fixes to the operating system and sub-system/program products.

RJE - Remote Job Entry. An IBM sybsystem to handle jobs submitted from remote stations.

SGP - Three character ACF2 Type code for defining Input Source Groups.

SMF - System Management Facility. IBM facility which records data about jobs run on the system. Also used by ACF2 to journal recovery and audit trail information.

SMP - System Modification Program. IBM program to process and record changes to the operating system code.

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SPF - System Productivity Facility. IBM program for editing data, used with TSO.

SRC - Three character ACF2 Type code for defining Input Source Name.

SSNT - Subsystem Name Table.

SSVT - Subsystem Vector Table.

STC - Started (systems) Task Control. Started Tasks are jobs started via operator (OS) commands (versus batch jobs, TSO submitted job, etc.).

SVC - Supervisor Call Instruction. When a program issues a SVC, it interrupts the operating system to request a system service (e.g., to open or close a dataset).

TAC - Three character ACF2 Type code for TSO Account Number resource rules.

TCAM - Telecommunications Access Method. One IBM sybsystem for communicating data and instructions to/from remote terminals.

TMP - Terminal Monitor Program. The TSO processing program which interprets commands.

TMS - Tape Management System. Generally refers to any number of program products designed to help identify and control tape volumes, or specifically refers to University Computing Corporation's UCC-1 (Tape Management System) product.

TPR - Three character ACF2 Type code for TSO Procedure Name resource rules.

TSO - Time Sharing Option. IBM's on-line processing system which performs services for terminal users.

UADS - User Attribute Dataset. The control database for IBM's TSO system. Contains control information about each TSO user (e.g., password, TSO account number, etc.).

UID - Keyword for specifying the User id String in ACF2 rules.

USERLID - A member of LIDREC (ACF2's Logonid Record Description). Contains the individual installation's locally defined LIDREC fields.

VIO - Virtual Input/Output.

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VOL - Keyword for specifying a Volume Name in ACF2 rules.

VOLSER - Volume-Serial name for storage devices, used with disk packs, MSS, or tape reels.

VTAM - Virtual Telecommunications Access Method. One IBM subsystem for communicating data and instructions to/from remote terminals.

VTOC - Volume Table of Contents. On a direct-access device, includes the DSCBs (individual file descriptors) for all the datasets on that volume, and their locations.

VS1 ACRONYMS

RAM - Resident Access Method List. Modules to be made resident at IPL time.

RSVC - Resident Supervisor Call list. SVCs that are to be made resident at IPL time.

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