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Getting Started with SMS

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What is system managed storage?

- Lets the operating system take over storage management tasks
 - ▶ Data set allocation
 - ▶ Backup management
 - ▶ Space management
 - ▶ Availability management
- Reduces number of people needed to manage storage

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What is SMS?

- SMS in an MVS subsystem
 - ▶ Manages the current storage management policy (active configuration)
 - ▶ Reduces end user data set creation & allocation complexity
 - ▶ Increases installation control of DASD, tape, and optical storage
- There is one SMS and one SMS address space per instance of MVS (z/OS)
- SMS runs in both the user's and the SMS address space

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SMS Design Considerations

- Clearly separate the domains of users, data and storage media
- Introduce the role of storage administrator
- Preserve customer investment in JCL and other structures

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Unmanaged Environment

//DD1 DD DSN=DATASETN,DISP=NEW,VOL=SER=VOL001...

The diagram illustrates an unmanaged environment with four separate volumes, each represented by a cylinder. Volume VOL001 contains datasets DataSetA through DataSetE. Volume VOL002 contains dataset DataSetF. Volume VOL003 contains datasets DataSetG and DataSetH. Volume VOL004 contains datasets DataSetI through DataSetM.

VOL001 VOL002 VOL003 VOL004

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Managed Environment

//DD1 DD DSN=DATASETN,DISP=NEW,VOL=SER=VOL001...

The diagram illustrates a managed environment where four volumes (VOL001, VOL002, VOL003, VOL004) are part of a single storage group named STORGRP1. Each volume contains a subset of datasets: VOL001 has DataSetA, DataSetB, and DataSetC; VOL002 has DataSetD, DataSetE, and DataSetF; VOL003 has DataSetG, DataSetH, and DataSetI; and VOL004 has DataSetJ, DataSetK, DataSetL, and DataSetM.

VOL001 VOL002 VOL003 VOL004

Storage Group STORGRP1

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Why should I use it?

- Reduce out of space abends (X37)
- Reduce device fragmentation
- Balance allocations across a pool of devices
- Improve storage utilization
- Help achieve device independence

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SMS User Interactions



System Operator



Storage Administrator



System Programmer



Application Programmer



End User

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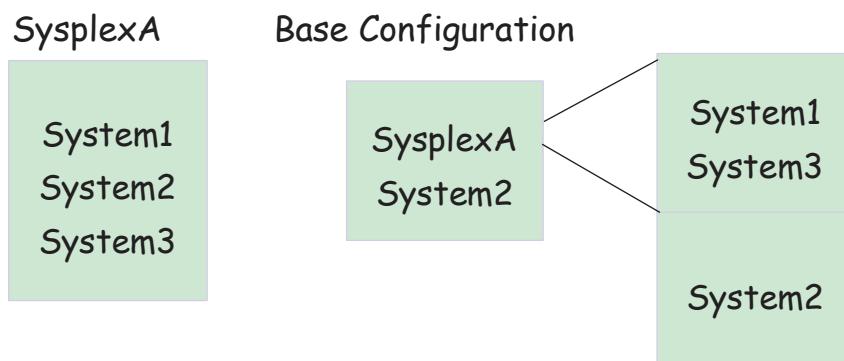


Some basic terms

- SMS complex
- System/system group name
- Base configuration information
- Storage group
- Storage class
- Management class
- Data class
- ACS routine

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System Group



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What *is* an SMS Configuration?

- A configuration is a storage management policy
- It contains elements which define that policy:
 - ▶ Base configuration information
 - ▶ Storage groups & volumes
 - ▶ Storage classes
 - ▶ Management classes
 - ▶ Data Classes
 - ▶ Automatic Class Selection (ACS) routines
 - ▶ Optical and tape libraries and drives
 - ▶ Aggregate groups

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What is a Minimal Configuration?

- Base configuration information
- One or more storage classes
- One or more storage groups with at least one volume
- A storage group ACS routine

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What is the Base Configuration Information?

- System & system group names
- Default management class
- Default unit
- Default device geometry

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What is a Storage Group?

- Physical storage managed by SMS
 - ▶ Collection of DASD volumes
 - ▶ Volumes in tape libraries
 - ▶ Volumes in optical libraries
 - ▶ Virtual I/O storage
- Can be enabled, quiesced, quiesced new, disabled or disabled new
- Can be set to auto migrate, auto backup and/or auto dump

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What is a Storage Class?

- Performance attributes
 - ▶ Direct & sequential millisecond response
 - ▶ Direct & sequential bias
 - ▶ Initial access response time
- Availability
- Accessibility
- Guaranteed space
- Guaranteed synchronous write

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What is a Management Class?

- Space management attributes
 - ▶ Expiration & retention attributes
 - ▶ Migration attributes
 - ▶ GDG management attributes
- Backup attributes
 - ▶ Backup frequency
 - ▶ Backup versions
 - ▶ Backup retention
- Class transition attributes
- Aggregate backup attributes

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What is a Data Class?

- RECORG or RECFM
- LRECL
- Space
- DSNTYPE
- Volume count
- VSAM attributes
- RETPD or EXPDT
- Compaction

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What is an ACS Routine?

- Used to determine SMS classes and storage groups
- Used for both data sets and objects
- Can override specifications of SMS classes and groups on:
 - ▶ JCL DD statements
 - ▶ Dynamic allocation requests
 - ▶ DFSMSdss COPY, RESTORE & CONVERTV
 - ▶ DFSMShsm RECALL & RECOVER
 - ▶ IDCAMS DEFINE, ALTER & IMPORT
 - ▶ OAM STORE, CHANGE & class transition

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What Happens to an Allocation If I Create an SMS Configuration?

```
//DD1 DD DSN=DATASETN,DISP=NEW,UNIT=3380,  
//           SPACE=(TRK,(5,5)),BLKSIZE=(0)....
```

Becomes roughly equivalent to:

```
//DD1 DD DSN=DATASETN,DISP=NEW,  
//           SPACE=(80,(2,2)),AVGREC=K,BLKSIZE=(0)....
```



Eliminates the need to specify a UNIT parameter

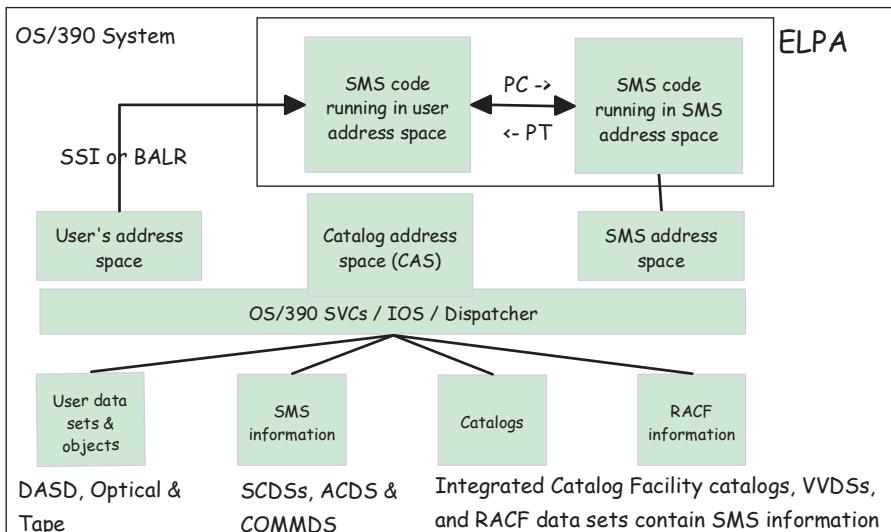
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Starting SMS w/a configuration

1. Define an ACDS, SCDS, & a COMMDS
2. Modify SYS1.PARMLIB members
3. Establish ISMF storage administrator options
4. Define base configuration information
5. Define SMS classes & groups
6. Optionally, define optical & tape libraries
7. Define & test ACS routines
8. Validate the configuration
9. Activate the configuration

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System Overview



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Defining the control data sets

```

//STEP EXEC PGM=IDCAMS
//SYSUDUMP DD SYSOUT=*
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
  DEFINE CLUSTER(NAME(SMS.SCDS1.SCDS) LINEAR -
    VOL(SMSV01) TRK(6 6) SHAREOPTIONS(2,3)) -
    DATA(NAME(SMS.SCDS1.SCDS.DATA))
  DEFINE CLUSTER(NAME(SMS.ACDS1.ACDS) LINEAR VOL(SMSV02) -
    TRK(6 6) SHAREOPTIONS(3,3)) -
    DATA(NAME(SMS.ACDS1.ACDS.DATA))
  DEFINE CLUSTER(NAME(SMS.COMMDS1.COMMDS) LINEAR -
    VOL(SMSVOL) TRK(1 1) SHAREOPTIONS(3,3)) -
    DATA(NAME(SMS.COMMDS1.COMMDS.DATA))
/*

```

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SYS1.PARMLIB: IGDSMSxx

```

SMS ACDS(dsname) COMMDS(dsname)
[ACSDEFAULTS({YES|NO})]
[AKP(nn[.nn[.nn...]])]
[ASID({asid|*})]
[BMFTIME({nnn|3600})]
[CACHETIME({nnn|3600})]
[CF_TIME({nnn|3600})]
[COMPRESS({TAILORED|GENERIC})]
[DB2SSID(ssid)]
[DEADLOCK_DETECTION({iiii|15,kkkk|4})]
[DESELECT({event[,event][,...]|ALL})]
[DINTERVAL({nnn|150})]
[DSNTYPE({LIBRARY|PDS})]

```

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SYS1.PARMLIB: IGDSMSxx

```

[DSSTIMEOUT({nnn|0})]
[GDSRECLAIM({YES|NO})]
[HSP_SIZE(nn)]
[INTERVAL({nnn|15})]
[JOBNAME({jobname|*})]
[LOG_OF_LOGS(logstreamname)]
[LRUCYCLES({nnn|240})]
[LRUTIME({nnn|15})]
[MAXLOCKS({max|0,incr|0})]
[OAMPROC(procname)]
[OAMTASK(taskid)]
[OVRD_EXPDT({YES|NO})]

```

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SYS1.PARMLIB: IGDSMSxx

```
[PDSESHARING({NORMAL|EXTENDED})]
[PDSE_MONITOR({YES|NO,interval,duration})]
[QTIMEOUT({nnn|300})
[REVERIFY({YES|NO})]
[RLSINIT({NO|YES})]
[RLSMAXCFFeatureLevel({A|Z})
[RLSDYNAMICCCFCACHEREASSIGN({YES|NO})
[RLS_MAX_POOL_SIZE({nnnn|100})]
[RLSTMOUT({nnn|0})
[SELECT({event[,event][...]|ALL})]
[SIZE(nn{K|M})]
```



SYS1.PARMLIB: IGDSMSxx

```
[SMF_TIME({YES|NO})]
[SYSNAME(sysname1[,sysname2[....,sysname32] ])]
[SYSTEMS({32|8})]
[TRACE({OFF|ON})]
[TRACEEXIT(user_trace_exit)]
[TVSNAME(tvname1[,tvname2[....,tvname32] ])]
[TV_START_TYPE({WARM|COLD[,WARM|COLD...]})]
[TYPE({ALL|ERROR})]
[USE_RESOWNER({YES|NO})]
```



SYS1.PARMLIB: IEFSSNyy

```
SUBSYS SUBNAME(SMS)
  [INITRN(IGDSSIIN)]
  [INITPARM('ID=xx,PROMPT=NO|YES|DISPLAY')]
```

OR:

```
SMS[,IGDSSIIN[,options] ]
  Valid options:
  [ID={xx|00}]
  [PROMPT=NO|YES|DISPLAY]
```

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SYS1.PARMLIB: IEASYSzz

```
.....
SCH=(65,01),
SMF=65,
SMS=xx,
SQA=(6,8),
SSN=(00,Y7,05,TC,L),
SVC=AA,
SYSNAME=SYSTEM1,
VAL=53,
VIODSN=SYS1.STGINDEX,
VRREGN=260,
PAGE=(SYS1.PAGE1,SYS1.PAGE2,SYS1.PAGE3,L)
```

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Setting Storage Administrator Options

- Under ISPF, enter ISMF
- Select option 0 (ISMF Profile)
- Select option 0 (User Mode Selection)
- Set user mode to 2 (Storage Administrator)
- Type PF3 three times to exit ISMF

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Defining the Base Configuration

- Under ISPF, enter ISMF
- Select option 8 (Control Data Set)
- Select option 2 (Define)
- Enter description, default unit, default management class & default device geometry
- Hit F8 to scroll down & enter system and system group names
- Hit F3 to save & exit

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CDS Application Selection

CDS APPLICATION SELECTION

Command ===>

To Perform Control Data Set Operations, Specify:
 CDS Name . . 'F051878.TEST.SCDS'
 (1 to 44 Character Data Set Name or 'Active')

Select one of the following Options:

1. Display	- Display the Base Configuration
2. Define	- Define the Base Configuration
3. Alter	- Alter the Base Configuration
4. Validate	- Validate the SCDS
5. Activate	- Activate the CDS
6. Cache Display	- Display CF Cache Structure Names for all CF Cache Sets
7. Cache Update	- Define/Alter/Delete CF Cache Sets

If CACHE Display is chosen, Enter CF Cache Set Name . . *
 (1 to 8 character CF cache set name or * for all)

Use ENTER to Perform Selection;
 Use HELP Command for Help; Use END Command to Exit.

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Defining the Base

SCDS BASE DEFINE

Command ===>

Page 1 of 2

SCDS Name . : F051878.TEST.SCDS
 SCDS Status : INVALID

To DEFINE SCDS Base, Specify:

Description ===>
 =====
 Default Management Class (1 to 8 characters)
 Default Unit (esoteric or generic device name)
 Default Device Geometry
 Bytes/Track 47476 (1-999999)
 Tracks/Cylinder 15 (1-999999)

Use ENTER to Perform Verification; Use DOWN Command to View next Panel;
 Use HELP Command for Help; Use END Command to Save and Exit; CANCEL To Exit.

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Defining the Base

```

SCDS BASE DEFINE          ADD SYSTEM OR SYS GROUP
Command ==>

SCDS Name . : F051878.TEST.SCDS
SCDS Status : INVALID

Specify one of the following options . . 1      (1 Add, 2 Delete, 3 Rename)

Specify System Name . . . . . SYSTEM1   or Sys Group Name . .

New System/Sys Group Name . . . . .       (For option 3, Rename)

System:

Sysgrp:

Use ENTER to Perform Option; Use UP Command to View previous Panel;
Use HELP Command for Help; Use END Command to Save and Exit; CANCEL To Exit.

```

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Defining SMS Classes & Groups

```

ISMF PRIMARY OPTION MENU - z/OS DFSMS V1 R5
Enter Selection or Command ==>

Select one of the following options and press Enter:

0 ISMF Profile           - Specify ISMF User Profile
1 Data Set                - Perform Functions Against Data Sets
2 Volume                  - Perform Functions Against Volumes
3 Management Class        - Specify Data Set Backup and Migration Criteria
4 Data Class               - Specify Data Set Allocation Parameters
5 Storage Class            - Specify Data Set Performance and Availability
6 Storage Group            - Specify Volume Names and Free Space Thresholds
7 Automatic Class Selection - Specify ACS Routines and Test Criteria
8 Control Data Set         - Specify System Names and Default Criteria
9 Aggregate Group          - Specify Data Set Recovery Parameters
10 Library Management       - Specify Library and Drive Configurations
11 Enhanced ACS Management - Perform Enhanced Test/Configuration Management
C Data Collection           - Process Data Collection Function
L List                      - Perform Functions Against Saved ISMF Lists
P Copy Pool                 - Specify Pool Storage Groups for Copies
R Removable Media Manager   - Perform Functions Against Removable Media
X Exit                     - Terminate ISMF

Use HELP Command for Help; Use END Command or X to Exit.

```

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Defining ACS Routines

ACS APPLICATION SELECTION

Command ===>

Select one of the following options:

1. Edit	- Edit ACS Routine source code
2. Translate	- Translate ACS Routines to ACS Object Form
3. Validate	- Validate ACS Routines Against Storage Constructs
4. Test	- Define/Alter Test Cases and Test ACS Routines
5. Display	- Display ACS Object Information
6. Delete	- Delete an ACS Object from a Source Control Data Set

If Display Option is Chosen, Specify:

CDS Name . . 'F051878.TEST.SCDS'
(1 to 44 Character Data Set Name or 'Active')

Use ENTER to Perform Selection;
Use HELP Command for Help; Use END Command to Exit.

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Defining ACS Routines

```

PROC 0 STORCLAS
//*****************************************************************************
/*      ONLY PROCESS VALID DASD UNITS          */
//*****************************************************************************
FILTLIST VALID_UNITS INCLUDE('3380','3350','3330-1','3330','3390',
                             '3590-1','9345','SYSDA','SYSSQ','SYSALDDA','VIO', '')

IF &UNIT *= &VALID_UNITS THEN DO
  SET &STORCLAS = ''
  EXIT
END
//*****************************************************************************
/*      TAKE CARE OF ATL REQUEST          */
//*****************************************************************************
FILTLIST ATL_VOLS INCLUDE(1B*, 1M*, 1D*, 1S*)

IF &UNIT = '3590-1' THEN DO
  SET &STORCLAS = ''
  IF &ALLVOL = &ATL_VOLS THEN SET &STORCLAS = 'NORMAL'
  IF &JOB = 'HSM' AND &HLQ = 'HSM' THEN SET &STORCLAS = 'NORMAL'
  EXIT
END

```

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Defining ACS Routines

```
*****
/*      ALLOW SMS INITIALIZATION JOB TO RUN OUTSIDE OF SMS      */
*****
IF &JOB = DASDSYS% AND (&GROUP = '#FFCA' OR &GROUP = 'SPECIAL') THEN DO
    SET &STORCLAS = ''
    EXIT
END
*****
/*      FAIL USER ALLOCATION ON SYSTEM VOLUME      */
*****
FILTLIST SYS_VOLS INCLUDE(RES*, LV1*, D94*, TMP*, IPCS*, MVSPP%)
FILTLIST SYS_GROUPS INCLUDE('D94', '#FFCA', 'SPECIAL', 'SYSSTC')

IF &ANYVOL = &SYS_VOLS AND &GROUP ^= &SYS_GROUPS
    AND &ACSENVIR ^= 'RECALL' THEN DO
        WRITE 'UNAUTHORIZED ALLOCATION TO SYSTEM VOLUME'
        SET &STORCLAS = ''
        EXIT CODE(4)
    END
```

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Defining ACS Routines

```
*****
/*      FAIL USER ALLOCATION TO VOLUME NOGOOD - USUALLY FROM DB2      */
*****
IF &ANYVOL = 'NOGOOD' THEN DO
    WRITE 'INVALID VOLUME SERIAL - NOGOOD'
    SET &STORCLAS = ''
    EXIT CODE(4)
END
*****
/*      ALLOW ALLOCATION TO PRIVATE VOLUMES      */
*****
FILTLIST STOR_VOLS INCLUDE(SYS1*, SYS2*, SYS3*, SYS4*, SCR*, '**', '')
/* NOTE: FOR HSM RECALL AND RECOVER THE VOLID PASSED TO ACS IS THE
   VOLUME ON WHICH THE DATA SET RESIDED AT TIME OF MIGRATION/BACKUP.  */
IF &ANYVOL ^= &STOR_VOLS AND &ACSENVIR ^= 'RECALL'
    AND &ACSENVIR ^= 'CONVERT' THEN DO
        SET &STORCLAS = ''
        EXIT
    END
```

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Defining ACS Routines

```

*****
/*      ALLOW NON-SMS RECALL TO SHRXXX VOLUMES          */
/*****
IF &ACSENVIR = 'RECALL' AND &ANYVOL = SHR* THEN DO
    SET &STORCLAS = ''
    EXIT
END
/*****
/*      SYS1 DATA SETS ARE ALWAYS GUARANTEED SPACE          */
/*****
IF &HLQ = 'SYS1' THEN DO
    SET &STORCLAS = 'NORMALG'
    EXIT
END
/*****
/*      SET SYSTEM STORAGE CLASS          */
/*****
FILTLIST NORMAL_ACSENVIR INCLUDE('RECALL', 'RECOVER', 'CONVERT')
IF &ALLVOL = '' OR &ALLVOL = '**' OR &ACSENVIR = &NORMAL_ACSENVIR
    THEN SET &STORCLAS = 'NORMAL'
ELSE SET &STORCLAS = 'NORMALG'

END

```

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Translating ACS Routines

```

ACS TRANSLATOR ***** TIME 17:47:07 DATE 07/19/2001 PAGE 0001 *****
SCDS NAME:           F051878.TEST.SCDS
ACS SOURCE DATA SET: F051878.ACS.ROUTINES
ACS SOURCE MEMBER:   SC

0001    PROC STORCLAS
0002    FILTLIST MYDSN INCLUDE(F051878.**) EXCLUDE(F051878.JCL.**)
0003    IF &DSN = &MYDSN THEN
0004        SET &STORCLAS = 'SC1'
0005    ELSE
0006        SET &STORCLAS = ''
0007    END

TRANSLATION RETURN CODE: 0000

SIZE OF OBJECT TABLE: 0000000344

```

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Translating ACS Routines

```

ACS TRANSLATOR ***** TIME 17:50:17 DATE 07/19/2001 PAGE 0001 *****
SCDS NAME: F051878.TEST.SCDS
ACS SOURCE DATA SET: F051878.ACS.ROUTINES
ACS SOURCE MEMBER: SC1

0001      PROC STORCLAS
0002      FILTLIST MYDSN INCLUDE(F051878.**) EXCLUDE(F051878.JCL.**)
0003      IF &DSN = &MYDSN THEN
0004          SET &STORCLAS = 'SC2'
0005      ELSE
0006          SET &STORCLAS = ''
0007      EXIT

***** IGD03212I MISSING END KEYWORD FOR THE ACS ROUTINE

```

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Testing ACS Routines

ACS APPLICATION SELECTION

Command ==>

Select one of the following options:

- | | |
|--|---|
| 1. Edit
2. Translate
3. Validate
4. Test
5. Display
6. Delete | - Edit ACS Routine source code
- Translate ACS Routines to ACS Object Form
- Validate ACS Routines Against Storage Constructs
- Define/Alter Test Cases and Test ACS Routines
- Display ACS Object Information
- Delete an ACS Object from a Source Control Data Set |
|--|---|

If Display Option is Chosen, Specify:

```
CDS Name . . 'F051878.TEST.SCDS'
(1 to 44 Character Data Set Name or 'Active')
```

Use ENTER to Perform Selection;
 Use HELP Command for Help; Use END Command to Exit.

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Testing ACS Routines

ACS TEST SELECTION

Command ==>

Select one of the following Options:

1. DEFINE	- Define an ACS Test Case
2. ALTER	- Alter an ACS Test Case
3. TEST	- Test ACS Routines

If DEFINE or ALTER Option is Chosen, Specify:

```
ACS Test Library . . ACS.ROUTINES
ACS Test Member . . TC1
```

Use ENTER to Perform Selection;
Use HELP Command for Help; Use END Command to Exit.

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Testing ACS Routines

ACS TEST CASE DEFINE

Page 1 of 4

Command ==>

```
ACS Test Library : F051878.ACS.ROUTINES
ACS Test Member . : TC1
```

To DEFINE ACS Test Case, Specify:

Description ==>		
Expected Result		
DSN (DSN/Collection Name) . .		
MEMN (Object Name)		
Sysname	Xmode	Def_dataclas
Sysplex	ACSEnvir	Def_mgmtclas
DD	Dataclas	Def_storclas
Dsorg	Mgmtclas	Dsntype
Recorg	Storclas	If Ext
Dstype	Storgrp	
Dsowner	Size	
Exptd	Maxsize	
Retpd	Blksize	

Use ENTER to Perform Verification; Use DOWN Command to View next Panel;
Use HELP Command for Help; Use END Command to Save and Exit; CANCEL to Exit.

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Validating the Configuration

- From Automatic Class Selection (option 7)
 - ▶ Select option 3 (Validate)
 - ▶ Enter the SCDS name, an * for ACS routine type, and the name of the output listing data set
 - ▶ Press Enter
- From Control Data Set (option 8)
 - ▶ Select option 4 (Validate)
 - ▶ Enter the SCDS name, an * for ACS routine type, and the name of the output listing data set
 - ▶ Press Enter



Unsuccessful Validation

VALIDATION RESULTS

```

VALIDATION RESULT: ERRORS DETECTED
SCDS NAME: F051878.TEST.SCDS
ACS ROUTINE TYPE: *
DATE OF VALIDATION: 2001/07/19
TIME OF VALIDATION: 17:21

IGD06029I MINIMALLY REQUIRED STORAGE GROUP TYPE IS NOT
IN THE CONFIGURATION
IGD06028I NO STORAGE GROUP ACS ROUTINE EXISTS IN THE
CONFIGURATION
IGW06027I NO STORAGE CLASSES EXIST IN THE CONFIGURATION

```

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Successful Validation

VALIDATION RESULTS

```
VALIDATION RESULT: VALIDATION SUCCESSFUL
SCDS NAME: F051878.TEST.SCDS
ACS ROUTINE TYPE: *
DATE OF VALIDATION: 2001/07/19
TIME OF VALIDATION: 17:53
```

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Activating the Configuration

- SETSMS SCDS(scdsname) ACDS(acdsname) operator command
- ISMF option 8 (Control Data Set Application) then select option 5 (Activate)
- Type ACTIVATE on the ISMF command line

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In Summary

- SMS:
 - ▶ selects constructs for data sets
 - ▶ selects volumes for new allocations, recalls, recovers, copies & restores
 - ▶ stores information that is used to automate space management, back up management & availability management at the data set level
 - ▶ makes features such as striping & VSAM record level sharing (RLS) available for use

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