

# **DFSMS Basics: How to Write ACS Routines Part 2 - Hands-on Lab (Section 2)**

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# Resources

- Lab TSO USERIDs
  - SHARA01 thru SHARA20 w/ password (firstpw)
- Lab Data Sets
  - SHARAx.x.S2412.ACS
  - SHARAx.x.S2412.SMS.SCDS
- Publications
  - DFSMS Storage Administration Reference (section hand-out)
  - DFSMS Implementing System-Managed Storage
  - DFSMS Using the Interactive Storage Management Facility

# Lab Basics

- SHARAx.S2412.ACS
  - Contains the ACS routines for a minimal configuration
    - SCMIN and SGMIN
  - Contains some example routines
    - DCEXAMPL, SCEXAMPL, MCEXAMPL and SGEXAMPL
  - Members for your lab use
    - DCLAB, SCLAB , MCLAB and SGLAB
  - Example solutions
    - DCANSWER, SCANSWER , MCANSWER and SGANSWER
  - ACS Routine stubs
    - STUB
- SHARAx.S2412.SMS.SCDS
  - SMS Configuration to code ACS against

# Lab Configuration

- SHARAx.S2412.SMS.SCDS
  - SMS Configuration to code ACS against
- DATACLAS(s)
  - Default, Extended, HFS, PDSE, VEAEXTND
- STORCLAS(s)
  - Default, Extended, GSPACE
- MGMTCLAS(s)
  - RLSEIMM
- STORGRP(s)
  - Default, Extended

# Lab Pre-stuff

- Set yourself up as a Storage Administrator
  - ISMF
  - 0 - Profile Options
  - 0 - User Mode Selections
  - 2 – Storage Administrator
  - End/Exit 3 times
- NOTE: This is an exercise in syntax, not logic.

# Lab 1

- Create the 'stubs' for each Class and Group
  - Put them in members **DCLAB**, **SCLAB** and **MCLAB** and **SGLAB** of data set **SHARAx.S2412.ACS**
    - The 'stubs' can be found in **SHARAx.S2412.ACS(STUB)**
  - Translate the **ACS** routines via **ISMF 7 / 2** to your configuration (**SCDS**) data set (**SHARAx.S2412.SMS.SCDS**)

## Lab 2

- Create Filter Lists
  - Use the **SC ACS** routine created in the previous lab
  - Modify the routine such that it contains **FILTLISTs**
    - Create a filter of **SYSTEM** for HLQ of **SYS1** and **SYS2**
    - Create a filter for **SPF** for 2<sup>nd</sup> level qualifier of **SPF\***
  - Translate the **ACS** routine

## Lab 3

- If/Then Logic
  - Use the **SC ACS** routine created in the previous lab
  - Modify the routine such that it contains **IF/THEN** logic
    - Compare the **HLQ** to the **SYSTEM** filter and set no (null/’ ‘) **SC**
    - Compare the second-level qualifier to the **SPF** filter and set a **Storage Class of Default**
  - Translate the **ACS** routine



## Lab 4

- SELECT Logic
  - Use the **SC ACS** routine created in the previous lab
  - Modify the routine such that it contains a **SELECT** statement
    - **SELECT** on Read/Write variable **&DATACLAS**
      - *2 methods to accomplish this*
      - *When incoming DC is VEAEXTND set the SC to EXTENDED*
  - Translate the ACS routine

## Lab 5

- WRITE Statement
  - Use the **SC ACS** routine created in the previous lab
  - Modify the routine such that it contains a **WRITE** statement(s)
    - WRITE 'message'
  - Translate the **ACS** routine

## Lab 6

- Create another filter list for SPF in the SG Routine
  - **Based on the second-level qualifier starting with SPF, set a Storage Group of Default**
- Translate the ACS routine

## Lab 7

- Create another filter list for SPF in the DC and MC Routines
  - **Based on the 2<sup>nd</sup> level qualifier starting with SPF, set a Data Class of Default and Management Class of RLSEIMM.**
- Translate the ACS routines

## Lab 8

- Use SELECT Logic
  - **When the DSNTYPE is LIBRARY, set a Data Class of PDSE, Storage Class of Default and Storage Group of Default**
- Translate the ACS routines

## Lab 9

- Based on MAXSIZE of 1000MB and DSORG of VS, set Data Class of VEAEXTND, Storage Class of Extended and Storage Group of Extended
  - **HINT: The SC aspect of this assignment is already complete.**
- Translate the ACS routines

## Lab Assignment (cont)

- Validate the configuration with ISMF 7 / 3 to your configuration (SCDS) data set (SHARAx.x.S2412.SMS.SCDS)

# Summary

- Upon completion of this session, you should...
  - Have a better understanding of the ACS environment
  - Be able to write a basic ACS routine
  - Understand how to Translate and Validate an ACS routine
  - Understand how to determine what Translate and/or Validate errors occurred



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