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.<S2412>.ACS
  - SHARAx.<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.xx.S2412.ACS
    • The ‘stubs’ can be found in SHARAx.xx.S2412.ACS(STUB)
  • Translate the ACS routines via ISMF 7 / 2 to your configuration (SCDS) data set (SHARAx.xx.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 2nd 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\textsuperscript{nd} 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.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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