

# DFSMS Basics: How to Write ACS Routines Workbook/Lab

Neal Bohling and Tom Reed, IBM

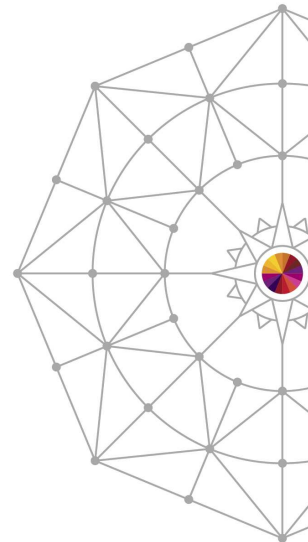
August 8, 2014  
Session Number 16115



# DFSMS Basics: How to Write ACS Routines Workbook/Lab (Section 2)

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#SHAREorg



## Lab Agenda

- Get Logged In
- Resources Overview
- Set up ISMF Profile
- 10 Labs
  - We'll do the first 5 together
  - Last 5 are for you to play!

## Logging In

- Find SHARE LPAR icon on the Desktop



- Enter TSO next to Application:

```
Enter Your Userid:
Password:
Application: TSO_
Application Required. No Installation Default
```

- Log in with your workstation's USERID
  - SHARA01 thru SHARA20
- **Note:** uses default key mappings:
  - ENTER: New line
  - CTRL: Execute / enter
  - F7/F8: Page up / page down

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## Lab Pre-stuff

- Set yourself up as a Storage Administrator
  - Enter **ISMF** (command ISMF from main menu)
  - **0** - Profile Options
  - **0** - User Mode Selections
  - **2** - Storage Administrator
  - End/Exit 3 times

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## Resources

- **Lab TSO USERIDs**
  - SHARA01 thru SHARA20
- **Lab Data Sets**
  - SHARAx.x.S16115.ACS
  - SHARAx.x.S16115.ACS.EXAMPLES
  - SHARAx.x.S16115.SMS.SCDS
- **Publications**
  - DFSMS Storage Administration Reference (handout)
    - Link: <https://ibm.biz/BdRmgJ>
  - DFSMS Implementing System-Managed Storage
  - DFSMS Using the Interactive Storage Management Facility
  - Links are in SHARAx.x.S16115.DOCLINKS

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## Lab Data Sets

- **SHARAx.x.S16115.ACS – edit / use these for the lab**
  - DCLAB – data class
  - SCLAB – storage class
  - MCLAB – management class
  - SGLAB – storage group
- **SHARAx.x.S16115.SMS.SCDS**
  - SMS Configuration SCDS
- **SHARAx.x.S16115.ACS.EXAMPLES:**
  - Minimal configuration examples:
    - SCMIN and SGMIN
  - Example routines:
    - DCEXAMPL, SCEXAMPL, MCEXAMPL and SGEXAMPL
  - Example solutions
    - DCANSWER, SCANSWER , MCANSWER and SGANSWER

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## Lab Configuration

- Available SCDS:
  - SHARAx.S16115.SMS.SCDS
- Available DATACLAS(s)
  - Default, Extended, HFS, PDSE, VEAEXTND
- Available STORCLAS(s)
  - Default, Extended, GSPACE
- Available MGMTCLAS(s)
  - RLSEIMM
- Available STORGRP(s)
  - Default, Extended

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## Lab 1

- Create the Framework for Each ACS Routine
- Put the PROC and END statements for each routine
  - Open DCLAB of data set **SHARAx.S16115.ACS**
  - Enter statements:  
**PROC &DATACLAS**  
**END**
  - Repeat for
    - SCLAB (PROC &STORCLAS)
    - MCLAB (PROC &MGMTCLAS)
    - SGLAB (PROC &STORGRP)

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## Lab 1b

- **Translate Your Routines**
- ISMF Option **7** - “Automatic Class Selection”
- Option **2** - “Translate”
  - For CDS, use your **SHARAx.x.S16115.SCDS**
- On the translate page, enter the data set information:
  - SCDS Name: **'SHARAx.x.S16115.SMS.SCDS'**
  - ACS Source Data Set: **'SHARAx.x.S16115.ACS'**
  - ACS Source Member: **DCLAB**
    - Repeat for **SCLAB, MCLAB, SGLAB**
  - Listing Data Set: **LISTING**

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## Lab 2

- **Create some Filter Lists**
  - Use the **STORAGE CLASS** ACS routine created in Lab 1 (SCLAB)
  - Modify the routine such that it contains 2 FILTLISTS
    - Create a filter of SYSTEM for HLQ of SYS1 and SYS2
    - Create a filter named SPF for wild card SPF\*

- **Solution:**

```
PROC &STORCLAS
/* FILTLISTS */
FILTLIST SYSTEM INCLUDE('SYS1','SYS2')
FILTLIST SPF INCLUDE(SPF*)
END
```

- Translate the ACS routine (ISMF 7 / 2)

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

## Lab 3

- **Add some If/Then Logic**
  - Again, use the SCLAB ACS routine created in the previous lab
  - Modify the routine such that it contains two **IF** statements
    - Compare the HLQ to the SYSTEM filter and set a null (") SC
    - Compare the second-level qualifier to the SPF filter and if it matches, set a Storage Class of Default

- **Solution:**

```
PROC &STORCLAS
/* FILTLISTS */
FILTLIST SYSTEM INCLUDE('SYS1', 'SYS2')
FILTLIST SPF INCLUDE(SPF*)
IF &HLQ EQ &SYSTEM THEN SET &STORCLAS=''
IF &DSN(2)=&SPF THEN SET &STORCLAS='DEFAULT'
END
```

- **Translate to ensure no errors (ISMF 7/2)**

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

## 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
    - When incoming DC is VEAEXTND set the SC to EXTENDED

- **Solution** (new lines only):

```
SELECT (&DATACLAS)
WHEN( 'VEAEXTND' ) SET &STORCLAS = 'EXTENDED'
END
```

- **Remember to Translate!**

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## Lab 4 - Solution

### SHARAx.S16115.ACS(SCLAB):

```
PROC &STORCLAS
/* FILTLISTS */
FILTLIST SYSTEM INCLUDE('SYS1','SYS2')
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &HLQ EQ &SYSTEM THEN SET &STORCLAS=' '
IF &DSN(2)=&SPF THEN SET &STORCLAS='DEFAULT'
SELECT (&DATACLAS)
  WHEN ('VEAEXTENT') SET &STORCLAS='EXTENDED'
END
END
```

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## 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) to indicate which storage class is assigned
    - Syntax: WRITE 'message'
- **Solution:**

```
WRITE 'STORCLAS SET TO ' &STORCLAS
```
- **Remember to Translate!**

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## Lab 5 - Solution

SHARAx.S16115.ACS(SCLAB):

```
PROC &STORCLAS
/* FILTLISTS */
FILTLIST SYSTEM INCLUDE('SYS1','SYS2')
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &HLQ EQ &SYSTEM THEN SET &STORCLAS=' '
IF &DSN(2)=&SPF THEN SET &STORCLAS='DEFAULT'
SELECT (&DATACLAS)
  WHEN ('VEAEXTENT') SET &STORCLAS='EXTENDED'
END
WRITE 'STORCLAS SET TO ' &STORCLAS
END
```

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

## Lab 6

- **Add some logic to the Storage Group Routine (SGLAB)**
  - Create FILTLIST for wildcard SPF\*
  - Use IF or SELECT to set the Storage Group to 'Default' if the second-level qualifier matches the FILTLIST
- **Translate the ACS routine**
- Solution available on [Slide 31](#)

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## Lab 7

- **Add similar logic to the Data Class (DCLAB) and Management Class (MCLAB) Routines**
  - Create FILTLIST for SPF\*
  - If the 2<sup>nd</sup> level qualifier starts with SPF\*
    - Set Data Class to Default
    - Set Management Class to RLSEIMM.
- **Translate the ACS routines**
- Solution available on [Slide 32](#)

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

## Lab 8

- **Use SELECT Logic**
  - When the DSNTYPE is LIBRARY:
    - Set a Data Class of PDSE
    - Set a Storage Class of Default, and
    - Set a Storage Group of Default
  - When the DSNTYPE is PDS:
    - Set a Data Class of Default
    - Set a Storage Class of Default
    - Set a Storage Group of Default
- **Translate the ACS routines**
- Solutions available on [Slide 33](#)

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

## Lab 9

- **Using whatever logic you prefer, create a rule where:**  
**If MAXSIZE > 100MB and DSORG = VS, set the following values:**
  - Data Class of 'VEAEXTND',
  - Storage Class of 'Extended'
  - Storage Group of 'Extended'
- *HINT: The SC aspect of this assignment is already complete.*
- **Translate the ACS routines**
- Solutions available on [Slide 36](#)

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## Lab 9 Assignment (cont)

- **Validate** the configuration
  - ISMF Option 7
  - Choose option 3 - "Validate"
  - Enter values:
    - SCDS: Use your configuration (SCDS)
    - ACS Routine Type: \*
    - Listing Data Set: LISTING (optional)
- **If all goes well, you'll see:**
  - VALIDATION RESULT: VALIDATION SUCCESSFUL
  - SCDS NAME: SHARA01.S16115.SMS.SCDS
  - ACS ROUTINE TYPE: \*
  - DATE OF VALIDATION: 2014/07/22
  - TIME OF VALIDATION: 21:04

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## Lab 10 – Best Practices

- You may have noticed, I didn't follow my own rules:
  - No EXIT after a SET
  - No WRITE before every EXIT
  - Didn't Logically group selections by SET
- **Re-write the ACS routines to conform to the best practices.**
- **No wrong answer, use your judgment!**
- One possible solution on [page 39](#)

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## Lab 11 – (Optional) Test Your Routines

- Use ISMF 7.4 to test your routines
  - Option **1** for DEFINE new test
- Build a test case with the following rules:
  - Expected result: **NULL**
  - Description: **Test1**
  - DSN: **SPFA1.ANYTHING.ANYTHING**
- Store it in **SHARAx.S16115.ACS(TEST1)**

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## Lab 11 – Test Your Routines

- Build another test case, **TEST2**, with rules:
  - Expected result: **EXTENDED**
  - Description: **Extended Test**
  - DSN: **MY.EXT.DATASET**
  - DSORG: **VS**
  - Size: **50000** (in KB)
  - Space\_Type: **K**
  - Second\_Qty: **50000**
- Store it in **SHARAx.S16115.ACS(TEST2)**

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## Lab 11 – Test Your Routines

- Run both tests (option 3)
  - CDS: '**SHARAx.S16115.SCDS**'
  - ACS Test Library: '**SHARAx.S16115.ACS**'
  - Select all routines
- What results do you get from each test?
- Do they match expectations?

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## 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 and why
  - Be familiar with much of the ACS syntax
  - Be able to test your ACS routines

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## Advanced Lab 12 (Optional)

- Create new DCA, SCA, MCA, SGA members in SHARAx.S16115.ACS
- Implement the following rules:
  - PDS and LIBRARY data sets are assigned to:
    - DC: PDSE, SC: Default, MC: none, SG: Default
  - Data sets over 100MB are assigned to:
    - DC: Extended, SC: Extended, MGMTCLAS: RLSIMM, SG: Extended
  - Data sets with HLQ of SYSTEM are assigned null (“”) for all routines
  - Data sets with second qualifier as “GS” are assigned to
    - SC: GSPACE
- Translate/validate/test your routines!

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## For Additional Experimentation

- Create your own routines!
  - Available structures are on page 7 of the lab
- Create your own structures!
  - Just be sure to use SCDS of SHARAx.S16115.SMS.SCDS
- Try using the ACS Routine Test case Generator
  - ISMF Option 11.1

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## Lab 6 - Solution

### SHARAx.x.S16115.ACS(SGLAB):

```
PROC &STORGRP
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF THEN SET &STORGRP='DEFAULT'

END
```

Back

## Lab 7 - Solution

### SHARAx.x.S16115.ACS(DCLAB):

```
PROC &DATACLAS
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF THEN SET &DATACLAS='DEFAULT'

END
```

### SHARAx.x.S16115.ACS(MCLAB):

```
PROC &MGMTCLAS
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF THEN SET &MGMTCLAS='RLSEIMM'

END
```

Back

## Lab 8 – Solution DCLAB

### SHARAx.x.S16115.ACS(DCLAB):

```
PROC &DATACLAS
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF THEN SET &DATACLAS='DEFAULT'
SELECT(&DSNTYPE)
  WHEN ('LIBRARY') SET &DATACLAS='PDSE'
  WHEN ('PDS') SET &DATACLAS='DEFAULT'
END
END
```

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## Lab 8 – Solution SCLAB

### SHARAx.x.S16115.ACS(SCLAB):

```
PROC &STORCLAS
/* FILTLISTS */
FILTLIST SYSTEM INCLUDE('SYS1','SYS2')
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &HLQ EQ &SYSTEM THEN SET &STORCLAS=''
IF &DSN(2)=&SPF THEN SET &STORCLAS='DEFAULT'
SELECT (&DATACLAS)
  WHEN ('VEAEXTENT') SET &STORCLAS='EXTENDED'
  END
SELECT (&DSNTYPE)
  WHEN ('LIBRARY') SET &STORCLAS='DEFAULT'
  WHEN ('PDS') SET &STORCLAS='DEFAULT'
END
WRITE 'STORCLAS SET TO ' &STORCLAS
END
```

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## Lab 8 – Solution SGLAB

### SHARAx.x.S16115.ACS(SGLAB):

```
PROC &STORGRP
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF THEN SET &STORGRP='DEFAULT'
SELECT (&DSNTYPE)
  WHEN ('LIBRARY') SET &STORGRP='DEFAULT'
  WHEN ('PDS') SET &STORGRP='DEFAULT'
END
END
```

Back

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## Lab 9 – Solution DCLAB

### SHARAx.x.S16115.ACS(DCLAB):

```
PROC &DATACLAS
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF THEN SET &DATACLAS='DEFAULT'
SELECT(&DSNTYPE)
  WHEN ('LIBRARY') SET &DATACLAS='PDSE'
  WHEN ('PDS') SET &DATACLAS='DEFAULT'
END
IF &MAXSIZE > 100MB AND &DSORG='VS' THEN
  SET &DATACLAS='VEAEXTND'
END
```

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## Lab 9 – Solution SCLAB

### SHARAx.S16115.ACS(SCLAB):

```
PROC &STORCLAS
/* FILTLISTS */
FILTLIST SYSTEM INCLUDE('SYS1','SYS2')
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &HLQ EQ &SYSTEM THEN SET &STORCLAS=''
IF &DSN(2)=&SPF THEN SET &STORCLAS='DEFAULT'
SELECT (&DATACLAS)
  /* NOTE THIS RULE WILL ALSO CATCH FOR LAB9 */
  WHEN ('VEAEXTENT') SET &STORCLAS='EXTENDED'
  END
SELECT (&DSNTYPE)
  WHEN ('LIBRARY') SET &STORCLAS='DEFAULT'
  WHEN ('PDS') SET &STORCLAS='DEFAULT'
END
WRITE 'STORCLAS SET TO ' &STORCLAS
END
```

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

## Lab 9 – Solution SGLAB

### SHARAx.S16115.ACS(SGLAB):

```
PROC &STORGRP
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF THEN SET &STORGRP='DEFAULT'
SELECT (&DSNTYPE)
  WHEN ('LIBRARY') SET &STORGRP='DEFAULT'
  WHEN ('PDS') SET &STORGRP='DEFAULT'
  END
IF &MAXSIZE > 100MB AND &DSORG='VS' THEN
  SET &STORGRP='EXTENDED'
END
```

Back

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# Lab 10 – Solution DCLAB

## SHARAx.S16115.ACS(DCLAB):

```

PROC &DATACLAS
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &DSN(2)=&SPF OR &DSNTYPE='PDS' THEN DO
  SET &DATACLAS='DEFAULT'
  WRITE 'DATACLAS = ' &DATACLAS
EXIT
END
IF &DSNTYPE='LIBRARY' THEN DO
  SET &DATACLAS='PDSE'
  WRITE 'DATACLAS = ' &DATACLAS
  EXIT
END
IF &MAXSIZE > 100MB AND &DSORG='VS' THEN DO
  SET &DATACLAS='VEAEXTND'
  WRITE 'DATACLAS = ' &DATACLAS
  EXIT
END
WRITE 'NOTHING ASSIGNED'
END /* END PROC */

```

Grouped the two rules that result in &DATACLAS='DEFAULT'

Added WRITE and EXIT statements after every SET

Watch for fall-through LOGIC

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

# Lab 10 – Solution SCLAB

## SHARAx.S16115.ACS(SCLAB):

```

PROC &STORCLAS
/* FILTLISTS */
FILTLIST SYSTEM INCLUDE('SYS1','SYS2')
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &HLQ EQ &SYSTEM THEN DO
  SET &STORCLAS=''
  WRITE 'SYSTEM DS SC SET NULL'
  EXIT
END
IF &DSN(2)=&SPF OR
  &DSNTYPE='LIBRARY' OR
  &DSNTYPE='PDS' THEN DO
  SET &STORCLAS='DEFAULT'
  WRITE 'STORCLAS=' &STORCLAS
  EXIT
END
IF &DATACLAS='VEAEXTENT' THEN DO
  SET &STORCLAS='EXTENDED'
  WRITE 'STORCLAS=' &STORCLAS
  EXIT
END
WRITE 'STORCLAS NOT SET'
END /* END PROC */

```

Added WRITE and EXIT statements after every SET

Grouped the two rules that result in &DATACLAS='DEFAULT'

Watch for fall-through LOGIC

Complete your session evaluations online at [www.SHARE.org/Pittsburgh-Eval](http://www.SHARE.org/Pittsburgh-Eval)

# Lab 10 – Solution SGLAB

## SHARAx.S16115.ACS(SGLAB):

```

PROC &STORGRP
/* FILTLISTS */
FILTLIST SPF INCLUDE(SPF*)
/* LOGIC */
IF &MAXSIZE > 100MB AND &DSORG='VS' THEN DO
  SET &STORGRP='EXTENDED'
  WRITE 'STORGRP=' &STORGRP
  EXIT
END
IF &DSN(2)=&SPF OR
  &DSNTYPE='LIBRARY' OR
  &DSNTYPE='PDS' THEN DO
  SET &STORGRP='DEFAULT'
  WRITE 'STORGRP='&STORGRP
  EXIT
END
WRITE 'STORGP NOT SET AT END'
END /* END IF */

```

Grouped the rules that result  
in &DATACLAS='DEFAULT'

Back

Watch for fall-through LOGIC