RMM and HSM Report Generator Hands-on Lab

Session 17717
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Agenda

- Logon to the SHARE Lab System
- Getting into the RMM Report Generator
  - TSO %RMMEXEC
- Update your RMM user profile
  - Input Jobcard Information
- Working with Predefined Sample Reports
  - Producing a report
  - DCOLLECT
  - RMM EXTENDED EXTRACT
  - FSR-SMF
- Generating and Saving the Report JCL
- Summary
Logon to the SHARE Report Generator Lab System

TSO USERID: SHARAx (xx=01-20)
Password: firstpw - Same for all userid’s

Enter Your Userid: SHARAx
Password:                New password:
Application: TSO
Application Required. No Installation Default
RMM ISPF Dialog and the Report Generator

• After logging on to TSO/ISPF invoke this RMM EXEC

```
SHARE ISPF 7.1 SCROLLABLE PRIMARY OPTION MENU

OPTION ==> TSO %RMEXEC

D  Alternate Dialog ==> CMD(%???)
D2 Alternate Dialog ==> PANEL(???)

More: +

The time is 7:17 p.m. on Wednesday, August 5, 2015 (2015.217)
Your uid is SHARA01 dsn prefix is SHARA01 proc is SHARE sys is S1

0  SETTINGS    - Specify ISPF parameters
1  VIEW        - View source data or output listing
1P VIEW-OE    - View/Browse files in the Open Edition file system
2  EDIT        - Create or change source data
2P EDIT-OE    - Edit files in the Open Edition file system
3  UTILITIES   - Perform utility functions
3P ISHELL-OE  - Open Edition ISPF shell
4  FOREGROUND  - Invoke language processors in foreground
5  BATCH       - Submit job for language processing
```
RMM ISPF Dialog and the Report Generator

• Select Option 0 Options

Panel Help

REMOVABLE MEDIA MANAGER (DFSMShsm) - z/OS V2R1

Option ===> 0

0 OPTIONS - Specify dialog options and defaults
1 USER - General user facilities
2 LIBRARIAN - Librarian functions
3 ADMINISTRATOR - Administrator functions
4 SUPPORT - System support facilities
5 COMMANDS - Full DFSMShsm structured dialog
6 LOCAL - Installation defined dialog
X EXIT - Exit DFSMShsm Dialog

Enter selected option or END command. For more info., enter HELP or PF1.
RMM ISPF Dialog and the Report Generator

- Select Option 1 User

Panel Help

DFSMSrmm Dialog Options Menu

Option ====> 1

1 USER    - Specify processing options
2 SORT    - Specify list sort options
3 REPORT  - Specify report options

Enter selected option or END command. For more info., enter HELP or PF1.
RMM ISPF Dialog and the Report Generator

- Enter your **JOBCARD** Information

<table>
<thead>
<tr>
<th>Panel</th>
<th>Help</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**DFSWSrmm Dialog User Options**

<table>
<thead>
<tr>
<th>Command</th>
<th>User Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>==</td>
<td>-----------------</td>
</tr>
</tbody>
</table>

**Date format** ... **JULIAN** [American, European, Iso or Julian]

**Time zone** ... **LOCAL** [zone offsetHH:MM:SS]

**Confirm deletes** ... **YES** [Yes or No]

**Processing option** ... **F** [F - Foreground, B - Background]

**DSNAME case option** ... **U** [M - Mixed, U - Upper]

**Eject option** ... **C** [C - Convenience, B - Bulk]

**Variable reuse** ... **Y** [Y - Yes, N - No]

**Job statement information:**

```plaintext
===> //SHARAxx JOB (), 'RMMLAB', CLASS=A, MSGCLASS=H,
===> // USER=&SYSUID, NOTIFY=&SYSUID
===> /*
===> /*
```

Enter END command to save changes, or CANCEL to end without saving.
RMM ISPF Dialog and the Report Generator

• Select 1 Report

DFSMSrmm Report Generator

Option ==> 1

0 OPTIONS - Specify dialog options and defaults
1 REPORT - Work with reports
2 REPORT TYPE - Work with report types
3 REPORTING TOOL - Work with reporting tools
4 MIGRATION - Migration tasks for reporting

Enter selected option or END command. For more info., enter HELP or PF1.
RMM ISPF Dialog and the Report Generator

- Press the ENTER key on this screen

Panel Help

DFSMSrmm Report Definition Search

Command ==>  

Report name . _ May be generic. Leave blank for all reports.

User id . _ Leave blank for all user ids.

Select one or more library. Default is all defined libraries.
Libraries (enter S):
  _ User
  _ Installation
  _ Product

Currently defined libraries:
  SHARA01.REPORT.LIB
  SYS1.SAMPLIB

The following line commands will be available when the list is displayed:
  A - Add a new report definition
  G - Generate and save the JCL
  J - Edit and submit the JCL
  M - Browse macros for the report
  S - Display/change the report
  D - Delete a report definition
  H - View the report help information
  L - List macro assembly results
  N - Copy a report definition
  T - Select a reporting tool
These are the report definitions shipped with DFSMSrmm

<table>
<thead>
<tr>
<th>S Name</th>
<th>Report title</th>
<th>Report type</th>
<th>User id</th>
</tr>
</thead>
<tbody>
<tr>
<td>ARCGAB01</td>
<td>ABARS ABACKUP Statistics</td>
<td>DFSMSrshsm ABARS Report</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGAR01</td>
<td>ABARS ARECOVER Statistics</td>
<td>DFSMSrshsm ABARS Report</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGDB01</td>
<td>DCOLLECT BACKUP DATA</td>
<td>DFSMSrshsm DCOLLECT BACKUP</td>
<td>SHAREA01</td>
</tr>
<tr>
<td>ARCGDD01</td>
<td>DCOLLECT DASD CAPACITY PLANNING</td>
<td>DFSMSrshsm DCOLLECT DASD CAP</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGDM01</td>
<td>DCOLLECT MIGRATION DATA</td>
<td>DFSMSrshsm DCOLLECT MIGRATION</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGDT01</td>
<td>DCOLLECT TAPE CAPACITY PLANNING</td>
<td>DFSMSrshsm DCOLLECT TAPE CAP</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGS001</td>
<td>Statistics for DFSMSrshsm</td>
<td>DFSMSrshsm FSR-SMF Records</td>
<td>SHAREA01</td>
</tr>
<tr>
<td>ARCGS002</td>
<td>Statistics for Backup</td>
<td>DFSMSrshsm FSR-SMF Records</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGS003</td>
<td>Statistics for Migration</td>
<td>DFSMSrshsm FSR-SMF Records</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGS004</td>
<td>Statistics for Recall</td>
<td>DFSMSrshsm FSR-SMF Records</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGS005</td>
<td>Statistics for Recovery</td>
<td>DFSMSrshsm FSR-SMF Records</td>
<td>HSM</td>
</tr>
<tr>
<td>ARCGS006</td>
<td>Statistics for Volume Dump</td>
<td>DFSMSrshsm FSR-SMF Records</td>
<td>HSM</td>
</tr>
</tbody>
</table>
Producing a Report

This lab is configured to allow you to produce the following reports:

DCOLLECT – Proceed to page 14
- ARCGDB01 - DCOLLECT BACKUP DATA
- ARCGDM01 - DCOLLECT MIGRATION DATA
- ARCGDT01 - DCOLLECT TAPE CAPACITY PLANNING

RMM EXTENDED EXTRACT REPORTS – Proceed to page 17
- EDGGR02 - LIST OF SCRATCH VOLUMES BY DATASET NAME
- EDGGR03 - INVENTORY LIST BY VOLUME SERIAL
- EDGGR04 - INVENTORY LIST BY DATASET NAME

DFSMShsm HSMSFR REPORTS – Proceed to page 19
- ARCGS002 - STATISTICS FOR BACKUP
- ARCGS003 - STATISTICS FOR MIGRATION
- ARCGS006 - STATISTICS FOR VOLUME DUMP
Producing a DECOLLECT Report

Choose a report to run without modifications using the Generate option

DCOLLECT REPORTS -

- ARCGDB01 - DCOLLECT BACKUP DATA
- ARCGDM01 - DCOLLECT MIGRATION DATA
- ARCGDT01 - DCOLLECT TAPE CAPACITY PLANNING

DCOLLECT - SHARAxx.S17717.DCOLLECT.LAB

- Date Format YYYYDDDD
- Date Format X'0CYYDDDF' for ARCGDT01 report
- Reformat Not Required
- ‘N’ in Create Report Data
Generating ARCDGT01 DECOLLECT Report Sample

- Enter G next to desired report and press enter key

• ARCGDT01 DCOLLECT TAPE CAPACITY PLANNIN DFSMSHshm DCOLLECT TAPE CAP HSM

<table>
<thead>
<tr>
<th>Panel</th>
<th>Help</th>
</tr>
</thead>
</table>

DFSMSrmm Report Generation - SRCGDT01

Command ==> _____________________________

Enter or change the skeleton variables for the generated JCL:

Input data set . . . . ‘SHARA01.S17717.DCOLLECT.LAB’

Date format . . . . X’OCYYDDDF’
  (American, European, Iso, Julian, or free form)
  Required if you use variable dates (&TODAY) in your selection criteria.

Create report data . . N (Y/N)
  Choose Y if you want an extract step included into your generated JCL.

Additional skeleton variables, for example if an extract step is included:
Skeleton Variable_1 . . _____________________________
Skeleton Variable_2 . . _____________________________
Skeleton Variable_3 . . _____________________________
  The skeleton selection depends on the reporting macro . . : ARCUUTILP
  and macro keyword . . : TYPE=T

Enter END command to start the report generation or CANCEL
Use SDSF to view output

Display Filter View Print Options Search Help

SDSF HELD OUTPUT DISPLAY ALL CLASSES LINES 2,420 LINE 1-1 (1)
COMMAND INPUT ===>
SCROLL ===>
PREFIX=SHARA01A DEST=(ALL) OWNER=* SORT=JobID/D SYSNAME=
NP JOBNAME JobID Owner CrDate Prty C ODisp Dest
? SHARA01A JOB09513 SHARA01 08/06/2015 14:44:32 128 H HOLD LOCAL

Display Filter View Print Options Search Help

SDSF JOB DATA SET DISPLAY - JOB SHARA01A (JOB09513) LINE 1-8 (8)
COMMAND INPUT ===>
SCROLL ===>
PREFIX=SHARA01A DEST=(ALL) OWNER=* SYSNAME=
NP DDNAME StepName ProcStep DSID Owner C Dest Rec-Cnt Page
JESMSGLG JES2 2 SHARA01 H LOCAL 20
JESJCL JES2 3 SHARA01 H LOCAL 96
JESYSMSG JES2 4 SHARA01 H LOCAL 101
SYSOUT ARCGFSRC 107 SHARA01 H LOCAL 165
SYSTSPRT DATECONV 108 SHARA01 H LOCAL 10
TOOLMSG WRITE1 110 SHARA01 H LOCAL 52
DFSMSG WRITE1 111 SHARA01 H LOCAL 99
S OUTDD WRITE1 112 SHARA01 H LOCAL 1,877
Producing an RMM Extended Extract Report

Choose a report to run without modifications using the Generate option

**RMM EXTENDED REPORTS -**

- EDGGR02 - List of SCRATCH Volumes by Dataset Name
- EDGGR03 - Inventory List by Volume Serial
- EDGGR04 - Inventory List by Dataset Name

**RMM REPORT - SHARAxx.S17717.RMXTRACT.LAB**

- Date Format JULIAN
- Extract NOT REQUIRED in fact please do NOT replace data
- INPUT in ‘input dataset’
Generating EDGGR04 RMM Report Sample

- Enter G next to desired report and press enter key

---

**Panel Help**

**DFSMSrmm Report Generation - SEDGGR04**

Command ==> 

Enter or change the skeleton variables for the generated JCL:

Input data set . . . . 'SHARAO1.S17717.RMXTRACT.LAB'______________

Date format . . . . JULIAN ____________
(American, European, Iso, Julian, or free form)
Required if you use variable dates (&TODAY) in your selection criteria.

Create report data . . N (Y/N)
Choose Y if you want an extract step included into your generated JCL.

Additional skeleton variables, for example if an extract step is included:

Skeleton Variable 1 . . DATEFORM(J)

Skeleton Variable 2 . . 'SHARAO1.RMMHSKP.MESSAGE'

Skeleton Variable 3 . .

The skeleton selection depends on the reporting macro . . : EDGRXEXT
and macro keyword . . :

Enter END command to start the report generation or CANCEL

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Producing a DFSMShsm HSMSFR Report

Choose a report to run without modifications using the Generate option

**DFSMShsm HSMSFR REPORTS** -

- ARCGS002 - STATISTICS FOR BACKUP
- ARCGS003 - STATISTICS FOR MIGRATION
- ARCGS006 - STATISTICS FOR VOLUME DUMP

**HSMSFR REPORT - SHARAx.x.S17717.RMXTRACT.LAB**

- Date Format **JULIAN**
- Extract NOT REQUIRED in fact please do NOT replace data
- INPUT in ‘input dataset’
- Add space parameter in JCL before submitting

**DSN=SHARAx.x.DFHSM.EXTRACT.REFORMAT,**  
**SPACE=(CYL,(25,10),RLSE)**
**Generating ARCGS003 FSR-SMF Report Sample**

- Enter G next to desired report and press enter key

<table>
<thead>
<tr>
<th>ARCGS003 Statistics for Migration</th>
<th>DFSMShsm FSR-SMF Records</th>
<th>HSM</th>
</tr>
</thead>
</table>

**DFSMRmm Report Generation - SRCGS003**

Command ==> __________________________

Enter or change the skeleton variables for the generated JCL:

Input data set . . . . 'SHARA01.DFHSM.EXTRACT.REFORMAT'

Date format . . . . . YYYYDDD

(American, European, Iso, Julian, or free form)

Required if you use variable dates (&TODAY) in your selection criteria.

Create report data . . . Y (Y/N)

Choose Y if you want an extract step included into your generated JCL.

Additional skeleton variables, for example if an extract step is included:

- Skeleton Variable_1 . . X'F1'
- Skeleton Variable_2 . . SHARA01.S17717.FSRSMF.LAB
- Skeleton Variable_3 . . __________________________

The skeleton selection depends on the reporting macro . . . : ARCFSR2

and macro keyword . . . :

Enter END command to start the report generation or CANCEL

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Summary

- The RMM Report Generator is a full featured tool that can help simplify the process of creating and managing ‘AdHoc’ reports.
- It has many supplied samples and offers several ways to customize the product to meet your needs.
- Includes RMM, HSM, and SMS Report Types and Sample Reports.
- It can also be used to report on almost any data.
- Context sensitive help screens provide useful information to assist you when generating reports.
- The RMM Report Generator is documented in “DFSMSrmm Reporting” “Chapter 2. Using the DFSMSrmm Report Generator”
- Continues to be Enhanced to enable more flexible reporting and processing.

DFSMSrmm web site: www.storage.ibm.com/software/sms/rmm/