



RMM and HSM Report Generator Hands-on Lab

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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 userids

```
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 ----- S1
OPTION  ==> TSO %RMMEXEC _ ←

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

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 (DFSMSrmm) - 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 DFSMSrmm structured dialog
6  LOCAL        - Installation defined dialog
X  EXIT         - Exit DFSMSrmm Dialog

Enter selected option or END command. For more info., enter HELP or PF1.

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```

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.

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```

RMM ISPF Dialog and the Report Generator

- Enter your **JOBCARD** Information

```
Panel  Help
-----
                                DFSMSrmm Dialog User Options
Command ==> _____

Date format . . . . . JLIAN      ( 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:-

==> //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

```
Panel  Help
-----
                                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.

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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):      Currently defined libraries:
  - User                  SHARA01.REPORT.LIB
  - Installation
  - Product              SYS1.SAMPLIB

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

RMM ISPF Dialog and the Report Generator

- These are the report definitions shipped with DFSMSrmm

```
Panel Help
-----
DFSMSrmm Report Definitions Row 1 to 15 of 43
Command ==> _____ Scroll ==> PAGE

The following line commands are valid: A,D,G,H,J,L,M,N,S, and T

S Name      Report title      Report type      User id
-----
_ ARCGAB01  ABARS ABACKUP Statistics      DFSMShsm ABARS Report      HSM
_ ARCGAR01  ABARS ARECOVER Statistics      DFSMShsm ABARS Report      HSM
_ ARCGDB01  DCOLLECT BACKUP DATA      DFSMShsm DCOLLECT BACKUP      SHARA01
_ ARCGDD01  DCOLLECT DASD CAPACITY PLANNIN DFSMShsm DCOLLECT DASD CAP      HSM
_ ARCGDM01  DCOLLECT MIGRATION DATA      DFSMShsm DCOLLECT MIGRATION      HSM
_ ARCGDT01  DCOLLECT TAPE CAPACITY PLANNIN DFSMShsm DCOLLECT TAPE CAP      HSM
_ ARCGS001  Statistics for DFSMShsm      DFSMShsm FSR-SMF Records      SHARA01
_ ARCGS002  Statistics for Backup      DFSMShsm FSR-SMF Records      HSM
_ ARCGS003  Statistics for Migration      DFSMShsm FSR-SMF Records      HSM
_ ARCGS004  Statistics for Recall      DFSMShsm FSR-SMF Records      HSM
_ ARCGS005  Statistics for Recovery      DFSMShsm FSR-SMF Records      HSM
_ ARCGS006  Statistics for Volume Dump      DFSMShsm FSR-SMF Records      HSM
```

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 **G**enerate option

DCOLLECT REPORTS -

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

DCOLLECT - SHARAx.x.S17717.DCOLLECT.LAB

- Date Format **YYYYDDD**
- 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

```
G ARCGDT01 DCOLLECT TAPE CAPACITY PLANNIN DFSMSHsm DCOLLECT TAPE CAP HSM
```

```
Panel Help
-----
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'0CYDDDF'_____
(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 . . . : ARCUTILP
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 ==> PAGE
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 ==> PAGE
PREFIX=SHARA01A  DEST=(ALL)  OWNER=*  SYSNAME=
NP  DDNAME  StepName ProcStep DSID Owner  C Dest  Rec-Cnt Page
    JESMSG LG 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
    DFMSG    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 - SHARAx.x.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

G EDGGR04 Inventory List by Dataset Name Extended Extract Records RMM

```
Panel Help
-----
DFSMSrmm Report Generation - SEDGGR04
Command ==> _____

Enter or change the skeleton variables for the generated JCL:

Input data set . . . . 'SHARA01.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 . . 'SHARA01.RMMHSKIP.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

. . . . .
```

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

G ARCGS003 Statistics for Migration DFSMShsm FSR-SMF Records HSM

```
Panel Help
-----
                DFSMSrmm 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
```

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/