



DFSMS Basics: RMM and HSM Report Generator **Hands on LAB**

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Agenda

- Logon to the LAB SYSTEM Userid
 - SHARAxX
 - Password firstpw
- Getting into the RMM Report Generator
 - OPTION 13.5
 - Option 13.4
- Understanding your profile
- Report definitions
 - DCOLLECT
 - FSR & WWFSR HSM records
 - RMM Report Extract
- Generating a Report
- Report JCL
- Submitting a Report
- Customizing a Report

RMM ISPF Dialog and the Report Generator

- After logging on to TSO/ISPF invoke the RMM ISPF Dialog or ISMF

```
Enter Your Userid: SHARAxX
Password:                               New password:
Application: TSO
Application Required. No Installation Default
```

```
ISR@PRIM --- SHARE ISPF 6.3 SCROLLABLE PRIMARY OPTION MENU ----- S1
OPTION ==> 13_

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

More: - +

8 LM UTILITIES - Perform library administrator utility functions
9 IBM PRODUCTS - Additional IBM program development products
10 SCLM - Software Configuration and Library Manager
11 Workplace - ISPF Object/Action Workplace
12 OS/390 System- OS/390 system programmer applications
13 OS/390 User - OS/390 user applications
```

```
ISR@390U                               z/OS Applications
Option ==> _____

1 Book Build      BookManager/Build
2 Read Doc        BookManager/Read Online Documentation
3 Read Index      BookManager/Read Bookshelf Index Creation
4 DFSMSrmm        DFSMSrmm/ISMF
5 DFSMSdfp        DFSMSdfp/ISMF
```

RMM ISPF Dialog IN THE SHARE LAB

- RMM TSO RMMEXEC

```

ISR@390U
Option ==> 4

1 Book Build      BookManage
2 Read Doc       BookManage
3 Read Index     BookManage
4 DFSMSrmm      DFSMSrmm/I
5 DFSMSdfp      DFSMSdfp/I

z/OS Applications
REMOVABLE MEDIA MANAGER (DFSMSrmm) - z/OS V1R12
Option ==> REPORT

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
  
```

- ISMF OPTION G

```

ISMF PRIMARY OPTION MENU - z/OS DFSMS V1 R13
G Report Generation      - Create Storage Management Reports
  
```

RMM ISPF Dialog and the Report Generator

- RMM enter **TSO %RMMEXEC**

```
REMOVABLE MEDIA MANAGER (DFSMSrmm) - z/OS V1R12
Option ==> REPORT
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 the Report Generator
- Setup your profile
 - Option 0 Options
 - Option 1 User
 - Set the date format
 - Enter your JOBCARD Information
- Choose Your Report and PLAY

Producing a Report

- Choose a Report you'd like to produce run WITHOUT MODIFICATIONS
then
- **GENERATE** see next page **JCL** **SUBMIT**
 - **DCOLLECT** SHARAx.x.DCOLLECT.DATA
 - *Date format YYYYDDD*
 - *Reformat NOT REQUIRED* *'n' in Create Report Data*
 - **FSR, WWFSR** SHARAx.x.HSMFSR.DATA
 - *Date format YYYYDDD*
 - *Reformat REQUIRED* *'y' in Create report data*
 - *INPUT Dataset in Skeleton Variable 2* *x'F1' in Skeleton Variable 1*
 - *Output Dataset in Input Dataset*
 - **RMM REPORT EXTRACT** SHARAx.x.RMM.XEXTRACT.DATA
 - *Date format Julian*
 - *Extract NOT REQUIRED in fact please do NOT replace data*
 - *INPUT in 'input dataset'*

Producing a Report

- Choose a Report you'd like to produce run WITHOUT MODIFICATIONS then
- GENERATE see next page JCL SUBMIT
 - DCOLLECT SHARAx.DCOLLECT.DATA
 - Date format YYYYDDD
 - Reformat NOT REQUIRED 'n' in Create Report Data

```

_ ARCGDD01 DCOLLECT DASD CAPACITY PLANNIN DFSMSHsm DCOLLECT DASD CAP HSM
  
```

- Use SDSF TO VIEW OUTPUT

```

SDSF STATUS DISPLAY ALL CLASSES                                DATA SET DISPLAYED
COMMAND INPUT ==>                                           SCROLL ==> CSR
PREFIX=SHARA*  DEST=(ALL)  OWNER=*  SORT=JOBNAME/A  SYSNAME=*
NP  JOBNAME  JobID  Owner  Prty  Queue  C  Pos  SAff  ASys  Status
   SHARA01  TSU07859  SHARA01      1  PRINT      49
   SHARA01  TSU07919  SHARA01      1  PRINT      95
  ?_ SHARA01D  JOB07931  SHARA01      1  PRINT      A  104
S_  OUTDD    WRITE1                108  SHARA01  H LOCAL      22
  
```

Producing a Report

- Choose a Report you'd like to produce run WITHOUT MODIFICATIONS then
- **GENERATE** see next page **JCL SUBMIT**
 - FSR, WWFSR SHARAx.x.HSMFSR.DATA
 - Date format YYYYDDD
 - Reformat REQUIRED 'y' in Create report data
 - INPUT Dataset in Skeleton Variable 2 'x'F1' in Skeleton Variable 1
 - Output Dataset in Input Dataset

G ARCGS003 Statistics for Migration DFSMSHsm FSR-SMF Records SHARA01

• **OUTPUT**
of generation

• **REAL SMF**
INPUT

```

Panel Help
DFSMSrmm Report Generation - ARCGS003
Command ==>
Enter or change the skeleton variables for the generated JCL:
Input data set . . . . . 'SHARA01.HSMFSR-001'
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.HSMFSR-001'
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
  
```

Producing a Report

- Choose a Report you'd like to produce run WITHOUT MODIFICATIONS then
- **GENERATE** see next page **JCL SUBMIT**
 - RMM REPORT EXTRACT SHARAxX.RMM.XEXTRACT.DATA
 - *Date format Julian*
 - *Extract NOT REQUIRED in fact please do NOT replace data*
 - *INPUT in 'input dataset'*

```

_ EDGGR03 Inventory List by Volume Serial Extended Extract Records SHARA01
  
```

```

DFSMSrmm Report Generation - EDGGR03
Command ==> _____
Enter or change the skeleton variables for the generated JCL:
Input data set . . . . 'SHARA01.RMM.XEXTRACT.DATA'
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.RMMHSP.MESSAGE'
Skeleton Variable_3 . . _____
The skeleton selection depends on the reporting macro . . . : EDGRXEXT
  
```

Customize Your Report

- **SELECT THE SAME REPORTS FROM BEFORE AND ADJUST**
- **REARRANGE FIELDS**
 - Overtyping CO field
 - Prioritize sorting
 - Group report output
- **CHANGE COLUMN HEADERS**
 - Change column header text and Column Width
- **FILTER**
 - Select field
 - Change Operator, Compare Values
 - Use Conjunction Operators
- **REGENERATE and RESUBMIT; review with SDSF; repeat**

Summary

- Upon Completion of this lab, you should be able to produce a report using:
 - DCOLLECT
 - HSM FSR & WWFSR
 - RMM REPORT EXTRACT data
- You should be able to customize a report using the report Generator by:
 - Including only those fields you are interested in seeing
 - Using selection criteria to filter the report to include records that match your needs
 - Adjust the report output

Submit Batch JOB

- Use SDSF to look at OUTPUT
- Enter ? In INPUT selection field in OUTPUT Queue
- Review DDNAME **OUTDD** for Report Results