



RMM and HSM Report Generator

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Agenda

- Introducing the RMM Report Generator •
- Setting up Installation Wide Options •
- Customizing for Personal Use
- Working with Predefined Sample Reports
- Creating New Reports
- Selecting a Reporting Tool
- Using Titles, Headers and Footers
- Understanding Selection Criteria, Sorting and Grouping •
- Generating and Saving the Report JCL
- **Tips & Tricks**
- Summary

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Introducing the RMM Report Generator

- The RMM Report Generator is an ISPF application which simplifies the process of • creating and managing RMM reports.
- It comes with several predefined reports which can be used out of the box or tailored • to your specifications
- You can also use it to generate new 'AdHoc' reports •
- Assembler macros are used to map the data you wish to report on
 - Mapping macros are supplied for
 - RMM: extract dataset, SMF records, and ACTIVITY Records
 - HSM: FSR, WFSR, and DCOLLECT •
 - SMS: DCOLLECT
 - You can also provide your own Macros to map non-RMM, non-DFSMS data
- The tool is used to select fields from the 'mapped' data, include or exclude a subset of ٠ input records, and specify how you want the data sorted and grouped
- JCL is then generated to produce the report using an existing reporting tool such as • DFSORT's ICETOOL
- Context sensitive help screens are available throughout the application ٠





Terminology

- **Reporting Tool:** A reporting utility such as DFSORT's ICETOOL
- **Report Definition**: Defines the report layout including column order and sort preferences
- **Report Type**: Defines the type of record being used and how it is mapped
- Selection Criteria: Defines which records will be selected for reporting
- **Product Library**: DFSMS supplied sample reports, default is SYS1.SAMPLIB
- **Installation Library**: Customized installation-wide report definition library
- **User Libraries**: End User report definition and JCL libraries





Introducing the RMM Report Generator

Starting the Report Generator application

- Using option 'G' from ISMF
- Using option 'R' from the RMM User or Librarian menus will take you directly to the Report Definition Search panel
- Option 'R' from the RMM Commands menu takes you to the main Report Generator panel
- The 'REPORT' fast path command also takes you to the main Report Generator panel and can be used from any other RMM panel

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- Use the Report Options panel to define the Installation
 Library
- Default space is 10 tracks primary and secondary and 50 directory blocks
- Set up appropriate security access for installation library and RMM extract data set
- Create customized Report Types and Report Definitions
 and store in installation library





Option ===> <u>REPORT</u> O 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		F	REMOVABLE MEDIA MANAGER (DFSMSrmm) - z/OS V2R1
 OPTIONS - Specify dialog options and defaults USER - General user facilities LIBRARIAN - Librarian functions ADMINISTRATOR - Administrator functions SUPPORT - System support facilities COMMANDS - Full DFSMSrmm structured dialog LOCAL - Installation defined dialog X EXIT - Exit DFSMSrmm Dialog 	0p	tion ===> <u>REPOF</u>	<u></u>
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<pre>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</pre>	2	LIBRARIAN	- Librarian functions
4SUPPORT- System support facilities5COMMANDS- Full DFSMSrmm structured dialog6LOCAL- Installation defined dialogXEXIT- Exit DFSMSrmm Dialog	З	ADMINISTRATOR	- Administrator functions
5COMMANDS- Full DFSMSrmm structured dialog6LOCAL- Installation defined dialogXEXIT- Exit DFSMSrmm Dialog	4	SUPPORT	- System support facilities
6 LOCAL - Installation defined dialog X EXIT - Exit DFSMSrmm Dialog	5	COMMANDS	- Full DFSMSrmm structured dialog
X EXIT - Exit DFSMSrmm Dialog	6	LOCAL	- Installation defined dialog
-	Х	EXIT	- Exit DFSMSrmm Dialog

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DFSMSrmm Report Generator						
OOPTIONS- Specify dialog options and defaults1REPORT- Work with reports2REPORT TYPE- Work with report types3REPORTING TOOL- Work with reporting tools4MIGRATION- Migration tasks for reporting						
Enter selected option or END command. For more info., enter HELP or PF1.						
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<u>P</u> anel <u>H</u> elp						
DFSMSrmm Report Generator Option ===> <u>3</u>						
 OPTIONS - Specify dialog options and defaults REPORT - Work with reports REPORT TYPE - Work with report types REPORTING TOOL - Work with reporting tools MIGRATION - Migration tasks for reporting 						
Enter selected option or END command. For more info., enter HELP or PF1.						
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DFSMSrmm Report Options Command ===>	
Report definition libraries: User	
User report JCL library <u>'SHARAXX.REPORT.JCL'</u>	
DFSMSrmm allocates user libraries if they do not exist.	

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Customizing for Personal Use

• The Report Options panel can also be used to designate end user Report Definition and JCL libraries

• The default library names of <userid>.REPORT.LIB and <userid>.REPORT.JCL are automatically allocated and used if a pre-allocated library name is not supplied

 Use the RMM Dialog User Options panel to supply JOBCARD information

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Customizing for Personal Use



DFSMSrmm Dialog Options Menu
Option ===> <u>1</u>
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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Customizing for Personal Use

<u>P</u> anel <u>H</u> elp						
DFSMSrmm Dialog User Options						
Date format JULIAN	(American, European, Iso or Julian)					
lime zone <u>LUCAL</u>	[zone offsetHH:MM:SS]					
Confirm deletes <u>YES</u>	(Yes or No)					
Processing option <u>F</u> DSNAME case option <u>U</u>	F - Foreground, B - Background M - Mixed, U - Upper					
Eject option <u>C</u>	C - Convenience, B - Bulk					
Variable reuse <u>Y</u>	Y - Yes, N - No					
Job statement information:-						
===> //SHARA01 JOB (), 'RMMLAB', CLASS=F ===> // USER=&SYSUID.NOTIFY=&SYSUID	A, MSGCLASS=H,					
===> <u>//*</u> ===> //*						
Enter END command to save changes	s or CANCEL to end without saving					
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- The Report Generator comes with sample reports which can be used 'as is' or customized to your specifications
- Before you run your first report, there are a few things you will need to know:
- The name of the RMM Extract dataset or other data file
- The date format used to create the extract
 - The RMM Extract can be Julian (YYYY/DDD), European (DD/MM/YYYY), American (MM/DD/YYYY) and ISO (YYYY/MM/DD)
 - Only Julian and ISO will sort correctly
- What sort product your installation uses





<u>P</u> anel <u>H</u> elp						
DFSMSrmm Report Generator						
 OPTIONS - Specify dialog options and defaults REPORT - Work with reports REPORT TYPE - Work with report types REPORTING TOOL - Work with reporting tools MIGRATION - Migration tasks for reporting 						
Enter selected option or END command. For more info., enter HELP or PF1.						
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<u>P</u> anel <u>H</u> elp				
DFSMSrmm Report Definition Search Command ===> PRESSENTER KEY				
Report name	May be generic. Leave blank for all reports.			
User id	Leave blank for all user ids.			
Select one or more library. Libraries (enter S): User Installation Product	Default is all defined libraries. Currently defined libraries: SHARA01.REPORT.LIB SYS1.SAMPLIB			
The following line commands A - Add a new report defin G - Generate and save the J - Edit and submit the JO M - Browse macros for the S - Display/change the rep	<pre>will be available when the list is displayed: nition D - Delete a report definition JCL H - View the report help information CL L - List macro assembly results report N - Copy a report definition port T - Select a reporting tool</pre>			



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<u>P</u> anel <u>H</u> e	elp			
DFSMSrmm Report Definitions Row 23 to 3 Command ===>Scroll ===				37 of 47 ==> <u>PAGE</u>
The follow:	ing line commands are valid: A,I	D,G,H,J,L,M,N,S, a	and T	
S Name	Report title	Report type		User id
 EDGGBESK EDGGDCDS EDGGDSNM EDGGREPL EDGGREPV EDGGR01 	BES Key Index Report Data Sets by Storage Group Mixed Case data sets Retained Volumes to be replaced, Volumes to be replaced based o Scratch tapes by volume serial	Extended Extract DFSMS DCOLLECT fo Extended Extract Extended Extract Extended Extract Extended Extract	Records or Data Sets Records Records Records Records Records	RMM RMM DFRMM1 RMM RMM RMM
<pre>EDGGR02 EDGGR03 EDGGR04 EDGGR06 EDGGR07 EDGGR08 EDGGR08<</pre>	List of SCRATCH Volumes by Dat Inventory List by Volume Seria Inventory List by Dataset Name Inventory of Volumes by Locati Inventory of Dataset by Locati Inventory of Bin by Location,	Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract	Records Records Records Records Records Records	RMM RMM RMM RMM RMM
EDGGR09	Datasets in Loan Location,	Extended Extract	Records	RMM





<u>P</u> anel <u>H</u> elp		
DF	SMSrmm JCL Help for EDGGR03	
Command ===> _		Scroll ===> <u>PAGE</u>
Help information for the	e generation of the report JC	L.
If during the report ger	neration an extract step is r Y (Y/N)	equested:
then a DFSMSrmm Inventor	ry Management step is include	d.
The specified parameter	for the Input data set of th	e report
is the output data set o	of the Inventory management s	tep, and
must be pre-allocated.		
Enter END command or pre	ess PF3 to continue	
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<u>P</u> anel <u>H</u> elp
DFSMSrmm Report Generation - EDGGR03
Command ===>
Enter or change the skeleton variables for the generated JCL:
Input data set <u>'RMM.EXTRACT'</u>
Date format <u>JULIAN</u> (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 <u>'SHARAO1.RMMHSKP.MESSAGE'</u>
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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<u>P</u> anel <u>H</u> elp			
DFSMSrmm Report Command ===>	Definitions	Row 23 to 3 Scroll ==	87 of 47 => <u>PAGE</u>
The following line commands are valid: A,	D,G,H,J,L,M,N,S, a	nd T	
S Name Report title	Report type		User id
 EDGGBESK BES Key Index Report EDGGDCDS Data Sets by Storage Group EDGGDSNM Mixed Case data sets Retained EDGGREPL Volumes to be replaced, EDGGREPV Volumes to be replaced based o EDGGR01 Scratch tapes by volume serial EDGGR02 List of SCRATCH Volumes by Dat EDGGR03 Inventory List by Volume Seria EDGGR04 Inventory List by Dataset Name EDGGR05 Inventory of Volumes by Locati EDGGR06 Inventory of Volumes by Locati EDGGR08 EDGGR09 Report JCL EDGGR03 stored of 	Extended Extract DFSMS DCOLLECT fo Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract Extended Extract	Records r Data Sets Records Records Records Records Records Records Records Records Records	RMM RMM DFRMM1 RMM RMM RMM RMM RMM RMM RMM RMM RMM
_ EDGGR11 List MultiVolume and MultiFile	Extended Extract	Records	RMM



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EDIT SHARA01.REPORT.JCL(EDGGR03) - 01.00 Columns 00001 000)72
Command ===> Scroll ===> PA	IGE
***** ********************************	** *
000001 //SHARA01 JOB (), 'RMMLAB', CLASS=A, MSGCLASS=H,	
000002 // USER=&SYSUID,NOTIFY=&SYSUID	
000003 //*	
000004 //*	
000005 //*	
000006 //*******************************	жж
000007 //** SKELETON MEMBER EDGSGICE	
000008 //** TAILORED BY THE RMM REPORT GENERATOR FOR REPORT EDGGR03	
000009 //*******************************	жж
000010 //*******************************	жж
000011 //** STEPS TO SOLVE TITLE VARIABLES	128
000012 //***********************************	жж
000013 //TITVAR1 EXEC PGM=IDCAMS	
000014 //SYSPRINT DD SYSOUT=*	
000015 //SYSIN DD *	
000016 REPRO INFILE(TTINDD) OUTFILE(TTOUTDD) SKIP(0) COUNT(1)	
000017 //TTINDD DD DSN=RMM.EXTRACT.	
000018 // DISESHR	
000010 // TTOUTOD DD DSN=&VTIT UNIT=SYSALLDA SPACE=(TRK 1) DISP=(PASS)	
000010 // H00H00 00 00H av H11, 0111-010HEEDH, 01H0E- (HKK, 1), 016F- (, FH30) ;	





- The Report Generator provides several ways of creating new reports:
 - Start from scratch by adding a new report
 - Create a new report based on an existing Report Definition
 - Create a new report based on an existing Report Type
 - Select a predefined sample report and modify it, saving changes in your own personal report definition library

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<u>P</u> anel <u>H</u> elp		
DFSMSrmm Report Def	finitions Row 19 to 33 of Scroll ===> <u>PA</u>	47 IGE
The following line commands are valid: A,D,G	G,H,J,L,M,N,S, and T	
S Name Report title Re	eport type User	id
AEDGGAUD1 SMF Audit of Volumes by Volser SMEDGGAUD2 SMF Audit of Volume by RackSMEDGGAUD3 SMF42 Audit of Volumes by Vols SMEDGGAUD4 SMF42 Audit of Volume by RackSMEDGGBESK BES Key Index ReportExEDGGDCDS Data Sets by Storage GroupDFEDGGDSNM Mixed Case data sets RetainedExEDGGREPL Volumes to be replaced,Ex	AF Records for Volumes RMM AF Records for Volumes RMM AF42 Records RMM AF42 Records DFRMM AF42 Records RMM AF42 Records RMM	11
EDGGREPV Volumes to be replaced based o Ex EDGGR01 Scratch tapes by volume serial Ex EDGGR02 List of SCRATCH Volumes by Dat Ex EDGGR03 Inventory List by Volume Seria Ex EDGGR04 Inventory List by Dataset Name Ex	<pre><tended <tended="" extract="" pre="" records="" rmm="" rmm<=""></tended></pre>	





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Panel Help				
Command ===>	DFSMSrmm Report De	finitions	Row 19 to 33 c Scroll ===>	of 47 PAGE
The following line	commands are valid: A,D,	G,H,J,L,M,N,S, a	nd T	
S Name Report t	itle R	eport type	Use	⊵r id
A EDGGAUD1 SMF Aud EDGGAUD2 SMF Aud EDGGAUD3 SMF42 A EDGGAUD4 SMF42 A EDGGBESK BES Key EDGGDCDS Data Se EDGGDSNM Mixed C	Enter the report name	<u>MYREPORT</u>	N N N N N	1 1 1 1 1 1 1 1 1
EDGGREPL Volumes	to be replaced, E	xtended Extract	Records RMM	1
EDGGREPV Volumes	to be replaced based o E	xtended Extract	Records RMM	1
EDGGR01 Scratch	tapes by volume serial E	xtended Extract	Records RMM	1
EDGGR02 List of	SCRATCH Volumes by Dat E	xtended Extract	Records RMM	1
EDGGR03 Inventor	y List by Volume Seria E	xtended Extract	Records RMM	1
EDGGR04 Inventor	J List by Dataset Name E	xtended Extract	Records RMM	1









	Panel He	elp			
			DFSMSrmm Report Definition	าร	Row 19 to 33 of 47
C	ommand ===	=>			
			<u>P</u> anel <u>H</u> elp		
	he follow:	ıng l	Select Bener	+ Tuna	Boy 1 to 12 of 22
s	Name	Reno	Command ===>	стуре	Scroll ===> PAGE
-					
A	EDGGAUD1	SMF	S Report type	Name	
	EDGGAUD2	SMF			
	EDGGAUD3	SMF4	_ DFSMS DCOLLECT for Data Sets	DCOLLECT	T
	EDGGAUD4	SMF4	_ DFSMShsm ABARS Report	ARCGWFSF	2
	EDGGBESK	BES	_ DFSMShsm DCOLLECT BACKUP	ARCGDBCk	
	EDGGDCDS	Data	_ DFSMShsm DCOLLECT DASD CAP	ARCGDDSD)
	EDGGDSNM	Mixe	_ DFSMShsm DCOLLECT MIGRATION	ARCGDMI	
	EDGGREPL	Volu	_ DFSMShsm DCOLLECT TAPE CAP	ARCGDTAP)
	EDGGREPV	Volu	_ DFSMShsm FSR-SMF Records	ARCGFSR2	2
	EDGGR01	Scra	<u>S</u> Extended Extract Records	EDGRXEXT	ſ
	EDGGR02	List	<pre>_ Extract Records for Bins</pre>	EDGRSEXT	ſ
	EDGGR03	Inve	_ Extract Records for Data Sets	EDGRDEXT	
	EDGGR04	Inve	_ Extract Records for Owners	EDGROEXT	
	EDGGR06	Inve	_ Extract Records for Products	EDGRPEXT	
	EDGGR07	Inve			

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Panel Help	
	DFSMSrmm Report Definitions Row 19 to 33 of 47
Command ===>	
The following 1	<u>P</u> anel <u>H</u> elp
The foctowing t	Select Reporting Tool Row 1 to 3 of 3
S Name Repo	Command ===> <u>PAGE</u> Scroll ===> <u>PAGE</u>
A EDGGAUD1 SMF	S Reporting tool
EDGGAUD2 SMF	
EDGGAUD3 SMF4	_ DFSORT
EDGGAUD4 SMF4	S ICETOOL
EDGGBESK BES	SYNCTOOL
EDGGDCDS Data	
EDGGDSNM Mixe	
EDGGREPL Volu	
EDGGREPV Volu	
EDGGR01 Scra	
EDGGR02 List	
EDGGR03 Inve	
EDGGR04 Inve	
EDGGR06 Inve	
EDGGR07 Inve	

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<u>P</u> anel	<u>H</u> elp				
Command =	===>	DFSMSrmm Report Definition - MYREPORT Row 1 Scrol	to 8 l ==	3 of => [214 PAGE
Report ti Report fo	itle poter				+
Reporting Enter "/" _ Edit	g tool . : " to select the help in	ICETOOL Report option formation for this report	widt	:h :	0
Use END The follo	to save cha owing line (nges or CANCEL commands are valid: S, and R			
s co so	Field name	Column header text	CW	Len	Тур
<u>*</u>	RXTYPE	<u>Record type - C'X'</u>	6	1	<u>C</u>
	XVVOLSER	Volume serial number	6	6	<u>C</u>
	XVPVOL	Previous volume in sequence	9	6	<u>C</u>
	XVNVOL	<u>Next volume in sequence</u>	7	6	<u>C</u>
	XVSTVOL	Stacked volume VolSer (SV/LV)	9	6	<u>C</u>
	XVMDMVID	<u>Multi-dataset multi-volume id</u>	9	8	<u>C</u>

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<u>P</u> anel <u>H</u>	elp			
Command ==	DFSMSrmm Report =>	Definitions	Row 23 to 3 Scroll ==	37 of 48 ==> <u>PAGE</u>
The follow	ing line commands are valid: A,I	D,G,H,J,L,M,N,S, a	and T	
S Name	Report title	Report type		User id
_ EDGGBESK	BES Key Index Report	Extended Extract	Records	RMM
EDGGDCDS	Data Sets by Storage Group	DFSMS DCOLLECT fo	or Data Sets	RMM
_ EDGGDSNM	Mixed Case data sets Retained	Extended Extract	Records	DFRMM1
_ EDGGREPL	Volumes to be replaced,	Extended Extract	Records	RMM
_ EDGGREPV	Volumes to be replaced based o	Extended Extract	Records	RMM
_ EDGGR01	Scratch tapes by volume serial	Extended Extract	Records	RMM
EDGGR02	List of SCRATCH Volumes by Dat	Extended Extract	Records	RMM
	Inventory List by Volume Seria	Extended Extract	Records	RMM
= EDGGR04	Inventory List by Dataset Name	Extended Extract	Records	RMM
_ EDGGR06	Inventory of Volumes by Locati	Extended Extract	Records	RMM
_ EDGGR07	Inventory of Dataset by Locati	Extended Extract	Records	RMM
_ EDGGR08	Inventory of Bin by Location,	Extended Extract	Records	RMM
EDGGR09	Datasets in Loan Location,	Extended Extract	Records	RMM



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	Panel He	lp				
DFSMSrmm Report Definitions Row 23 to 37 of						
C	ommand ===		Sci	roll ==	=> PAGE	
Τł	ne followi	ng line commands are valid: A,D,G,H,J,L,M,N,S, and	d T			
S	Name	Report title Report type			User id	
_						
	EDGGBESK			5		
	EDGGDCDS			Sets		
	EDGGDSNM			5	DERMMI	
	EDGGREPL	Enter the report name <u>ANUTHER</u>		S	RMM	
	EDGGREPV			S	RMM	
	EDGGR01			S	RMM	
	EDGGR02			S	RMM	
Ν	EDGGR03	Inventory List by Volume Seria Extended Extract Re	ecor	ds	RMM	
	EDGGR04	Inventory List by Dataset Name Extended Extract Re	ecor	ds	RMM	
	EDGGR06	Inventory of Volumes by Locati Extended Extract Re	ecor	ds	RMM	
	EDGGR07	Inventory of Dataset by Locati Extended Extract Re	ecord	ds	RMM	
	EDGGR08	Inventory of Bin by Location, Extended Extract Re	ecord	ds	RMM	
	EDGGR09	Datasets in Loan Location, Extended Extract Re	ecor	ds	RMM	



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<u>P</u> anel <u>H</u> elp		
DFSMSrmm Report Command ===>	Definitions Row 1 to Scroll =	15 of 49 ==> <u>PAGE</u>
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
S ANOTHER Inventory List by Volume Seria ARCGAB01 ABARS ABACKUP Statistics ARCGAR01 ABARS ARECOVER Statistics ARCGDB01 DCOLLECT BACKUP DATA ARCGDD01 DCOLLECT DASD CAPACITY PLANNIN ARCGDM01 DCOLLECT MIGRATION DATA ARCGDT01 DCOLLECT TAPE CAPACITY PLANNIN	Extended Extract Records DFSMShsm ABARS Report DFSMShsm ABARS Report DFSMShsm DCOLLECT BACKUP DFSMShsm DCOLLECT DASD CAP DFSMShsm DCOLLECT MIGRATION DFSMShsm DCOLLECT TAPE CAP	SHARA01 HSM HSM SHARA01 HSM HSM
 ARCGS001 Statistics for DFSMShsm ARCGS002 Statistics for Backup ARCGS003 Statistics for Migration ARCGS004 Statistics for Recall ARCGS005 Statistics for Recovery 	DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records	SHARA01 HSM HSM HSM HSM
_ ARCGS006 Statistics for Volume Dump	DFSMShsm FSR-SMF Records	HSM



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<u>P</u> anel <u>H</u> elp					
DFSMSrmm Command ===>	Report Definition - ANOTHER	Row 1 Scro	to 8	3 of ==> <u>F</u>	214 PAGE
Report title <u>Inventory</u>	List by Volume Serial,				+
Report footer <u>Removable</u>	Media Manager				
Reporting tool . : ICETOOL		Report	widt	th:	248
Enter "/" to select option					
_ Edit the help information	for this report				
The following line commands a S CO SO Field name	re valid: S, and R Column header text		CW	Len	Тур
_ <u>1</u> <u>1A</u> XVVOLSER	Volume		6	6	<u>C</u>
_ <u>2</u> XDDSNAME	<u>Dataset name</u>		_44	44	<u>C</u>
_ <u>3</u> XVVOLSEQ	Volseq		6	4	<u>C</u>
_ <u>4</u> <u>2A</u> XDDSNSEQ	DSNseq		6	5	<u>C</u>
_ <u>5</u> XDCRTJBN	Creating jobname		16	8	<u>C</u>
_ <u>6</u> XDCRDATE	DSN date created		<u> 16</u>	10	<u>C</u>
ete your session evaluations online at www.SHARE.o	rg/Orlando-Eval	SH in Orlar	A	R 201	5

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Selecting a Reporting Tool

- The RMM Report Generator uses ICETOOL as it's default reporting tool
- If your installation does not use DFSORT, you'll have to select a different tool
- The Report Generator can be customized to use other reporting tools
- Use option 'T' to change the tool currently assigned to your report definition

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Selecting a Reporting Tool



<u>P</u> anel <u>H</u> elp		
DFSMSrmm Report	Definitions Row 1 to	15 of 49
Command ===>	Scroll =	==> <u>PAGE</u>
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
I ANOTHER Inventory List by Volume Seria ARCGAB01 ABARS ABACKUP Statistics ARCGAR01 ABARS ARECOVER Statistics ARCGDB01 DCOLLECT BACKUP DATA ARCGDD01 DCOLLECT DASD CAPACITY PLANNIN ARCGDM01 DCOLLECT MIGRATION DATA	Extended Extract Records DFSMShsm ABARS Report DFSMShsm ABARS Report DFSMShsm DCOLLECT BACKUP DFSMShsm DCOLLECT DASD CAP DFSMShsm DCOLLECT MIGRATION	SHARA01 HSM HSM SHARA01 HSM HSM
ARCGS001 Statistics for DFSMShsm ARCGS002 Statistics for Backup ARCGS003 Statistics for Migration	DFSMShsm DCOLLECT THPE CHP DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records DESMShsm ESR-SME Records	HSM SHARA01 HSM HSM
_ ARCGS004 Statistics for Recall _ ARCGS005 Statistics for Recovery	DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records	HSM HSM
_ ARCGS006 Statistics for Volume Dump	DFSMShsm FSR-SMF Records	HSM



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Selecting a Reporting Tool



Panel Hel	lp	
	DFSMSrmm Report Definitions Row 1 to 15	of 49
Command ==		AGE
	<u>P</u> anel <u>H</u> elp	
The follow		
	Select Reporting Tool Row 1 to 3 of 3	
S Name	Command ===> <u>PAGE</u> Scroll ===> <u>PAGE</u>	id
T ANOTHER	S Reporting tool	A01
ARCGAB01		
ARCGAR01	_ DFSORT	
ARCGDB01	_ ICETOOL	A01
ARCGDD01	<u>s</u> synctool	
ARCGDM01	**************************************	
ARCGDT01		
ARCGS001		A01
ARCGS002		
ARCGS003		
ARCGS004		
ARCGS005		
ARCGS006		
ARCGS007		
ARCGS008		






Selecting a Reporting Tool



<u>P</u> anel <u>H</u> elp	
Option ===> <u>3</u>	DFSMSrmm Report Generator
0 OPTIONS 1 REPORT 2 REPORT TYPE 3 REPORTING TOOL 4 MIGRATION Enter selected opt	- Specify dialog options and defaults - Work with reports - Work with report types - Work with reporting tools - Migration tasks for reporting ion or END command. For more info., enter HELP or PF1.
5650-ZOS COPYRIGH	T 1993,2012 IBM CORPORATION

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Selecting a Reporting Tool



<u>P</u> anel <u>H</u> elp					
DFSMS Command ===>	Srmm Repor	ting Tools	5	Row 1 to 3 Scroll ===)	3 of 3 > <u>PAGE</u>
The following line commands are	valid: A,	C, and D			
S Reporting tool	Exec	Skeleton	Colspace	Group sort	
_ DFSORT	EDGRGDFS	EDGSGDFS	0	U	
<u>C</u> ICETOOL	EDGRGGEN	EDGSGICE	3	U	
_ SYNCTOOL	EDGRGGEN	EDGSGSYN	3	U	
****	Bottom of	data ***	*****	*****	*****

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Selecting a Reporting Tool



Panel Help		
Command ===>	DFSMSrmm Reporting Tools	Row 1 to 3 of 3 Scroll ===> PAGE
The following line	commands are valid: A,C, and D	
S Reporting tool	Exec Skeleton Colspace G	roup sort
DFSORT C ICETOOL SYNCTOOL	Change a Reporting Tool	
****	Reporting tool . : ICETOOL Exec <u>EDGRGGEN</u> Skeleton <u>EDGSGICE</u> Colspace 3 Group sort <u>U</u>	

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Using Titles, Headers and Footers

- A Title and Footer can be added to each page of your report from the Report Definition panel
- Column headers can be customized for each data field included in your report
- Report width is automatically calculated based on the length of currently selected fields
- Column width is based on the longer of the header text or the actual data length
- Default column headings are very descriptive, but should be shortened to reduce overall report width





Using Titles, Headers and Footers



<u>P</u> anel <u>H</u> elp		
DFSMSrmm Report Definition	n - ANOTHER Row 1 to 8 of 3 Scroll ===> <u>P</u>	214 AGE
Report title <u>Another Inventory List by V</u> Report footer With Shorter Column Headers	Volume Serial	+
Reporting tool . : SYNCTOOL Enter "/" to select option _ Edit the help information for this report	Report width: :	248
Use END to save changes or CANCEL The following line commands are valid: S, and	R	
S CO SO Field name Column header te	ext CW Len	Тур
_ <u>1</u> <u>1A</u> XVVOLSER <u>Volume</u>	6_6	<u>C</u>
_ <u>2</u> XDDSNAME <u>Dataset name</u>		<u>C</u>
_ <u>3</u> XVVOLSEQ <u>Volseq</u>	<u> 6 4 </u>	<u>C</u>
_ <u>4</u> <u>2A</u> XDDSNSEQ <u>DSNseq</u>	<u>6</u> 5;	<u>C</u>
_ <u>5</u> XDCRTJBN <u>Creating jobname</u>	<u> </u>	<u>C</u>
_ <u>6</u> XDCRDATE <u>DSN date created</u>	<u> </u>	<u>C</u>
_ <u>7</u> XDCRTIME <u>DSN time Created</u>	<u> </u>	<u>C</u>
<u> 8 </u>	12 10	<u>C</u>

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Using Titles, Headers and Footers



<u>P</u> anel <u>H</u> elp		
DFSMSr Command ===>	mm Report Definition - ANOTHER	Row 1 to 8 of 214 Scroll ===> <u>PAGE</u>
Report title <u>Another</u> Report footer <u>With Sh</u> Reporting tool . : SYNCTOO	<u>Inventory List by Volume Serial orter Column Headers L</u>	Report width: 231
Enter "/" to select option _ Edit the help information	on for this report	
Use END to save changes or The following line command	CANCEL s are valid: S, and R	
S CO SO Field name	Column header text	CW Len Typ
<pre>_ 1 1A XVVOLSER _ 2 XDDSNAME _ 3 XVVOLSEQ _ 4 2A XDDSNSEQ = 5 XDCRTJBN _ 6 XDCRDATE _ 7 XDCRTIME _ 8 XVEXPDT</pre>	Volume Dataset name Volseq DSNseq Create Job Create Date Create Time Expire Date	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
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- The Report Definition panel is also used to control which data fields are selected and how they appear on the report
 - The CO column is used to define the column order of the fields
 - Fields are selected by placing a number in the CO column
 - Selected fields move to the top of the list for easy viewing
 - Numbers can be over-typed if you change your mind and the selected fields will be automatically re-sequenced
 - The SO column indicates the sequence and direction of sort fields
 - Sort fields do not have to appear on the report
 - Use A for Ascending and D for Descending
 - Numbers can be over-typed and will be automatically resequenced
 - The S column is used to define Selection Criteria



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<u>P</u> anel <u>H</u> elp			
DFSMSr Command ===>	rmm Report Definition - ANOTHER	Row 1 to : Scroll =:	8 of 214 ==> <u>PAGE</u>
Report title <u>Another</u> Report footer <u>With Sh</u> Reporting tool . : SYNCTOO	r Inventory List by Volume Seria norter Column Headers DL	l Report wid	+ th: 231
Enter "/" to select option _ Edit the help informati	n ion for this report		
Use END to save changes or The following line command	r CANCEL ds are valid: S, and R		
S CO SO Field name	Column header text	CW	Len Typ
_ <u>1 1A</u> XVVOLSER _ <u>2</u> XDDSNAME	<u>Volume</u> Dataset name	6 44	6 <u>C</u> 44 <u>C</u>
_ <u>3</u> XVVOLSEQ _ <u>4</u> <u>2A</u> XDDSNSEQ 5XDCRT_IBN	<u>Volseq</u> DSNseq Create Job	6 6	4 <u>C</u> 5 <u>C</u> 8 C
_ <u>6</u> XDCRDATE _ <u>7</u> XDCRTIME	<u>Create Job</u> <u>Create Date</u> <u>Create Time</u>		10 <u>C</u> 6 <u>C</u>
_ <u>3</u> XVEXPDT	Expire Date		
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Reporting tool . : SYNCTOOL

Enter "/" to select option

<u>P</u>anel <u>H</u>elp



s co so	Field name	Column header text	CW	Len	Тур
<u> 1 1A</u>	XVVOLSER	Volume	6	6	<u>C</u>
2	XDDSNAME	Dataset name	_44	44	<u>C</u>
3	XVEXPDT	Expire Date	<u> 11</u>	10	<u>C</u>
4	XVVOLSEQ	Volseq	6	4	<u>C</u>
<u> </u>	XDDSNSEQ	DSNseq	6	5	<u>C</u>
6	XDCRTJBN	Create Job	10	8	<u>C</u>
7	XDCRDATE	Create Date	11	10	<u>C</u>
8	XDCRTIME	Create Time	<u> 11</u>	6	<u>C</u>

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<u>P</u> anel <u>H</u> elp		LUCEU - NUM
DFSM Command ===>	ISrmm Report Definition - ANOTHER	Row 9 to 16 of 214 Scroll ===> <u>PAGE</u>
Report title <u>Anoth</u> Report footer <u>With</u>	<u>ner Inventory List by Volume Seria</u> Shorter Column Headers	<u>al +</u>
Reporting tool . : SYNCT Enter "/" to select opti _ Edit the help informa	OOL on ation for this report	Report width: 231
Use END to save changes The following line comma	or CANCEL ands are valid: S, and R	
S CO SO Field name	Column header text	CW Len Typ
_ <u>9</u> XVLRDDAT _ <u>10</u> XVLWTDAT _ <u>11</u> XVLABEL _ <u>12</u> XVMEDREC _ <u>13</u> XVSTATUS _ <u>14</u> XVVRS _ <u>G</u> XVSTORID *RXTYPE	Vol.date last read Vol.date last write Label type Vol.recfm Volstat VRS retained Location Record type = C'X'	18 10 C 19 10 C 10 3 C 9 8 C 8 8 C 12 1 C 8 8 C 6 1 C
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<u>P</u> anel <u>H</u> elp			
DFS Command ===>	SMSrmm Report Definition - ANOTHER	Row 1 to 8 of Scroll ===>	214 <u>PAGE</u>
Report title <u>Ano</u> Report footer <u>Wit</u> l	ther Inventory List by Volume Seria h Shorter Column Headers	31	+
Reporting tool . : SYNG	CTOOL	Report width:	220
Enter "/" to select op	tion		
_ Edit the help inform	mation for this report		
Use END to save changes The following line com S CO SO Field name	s or CANCEL mands are valid: S, and R Column header text	CW Len	Тур
_ <u>G</u> <u>1A</u> XVSTORID	Location	<u>8</u> 8	<u>C</u>
S 1 2A XVVOLSER	Volume	<u> </u>	С
<u>s 2</u> XDDSNAME	Dataset name	44 44	C
_ <u>3</u> XVEXPDT	<u>Expire Date</u>	<u>11</u> 10	<u>C</u>
_ <u>4</u> XVVOLSEQ	Volseq	<u> 6 4</u>	<u>C</u>
_ <u>5</u> <u>3A</u> XDDSNSEQ	DSNseq	<u> </u>	<u>C</u>
_ <u>6</u> XDCRTJBN	Create Job	<u> 10</u> 8	<u>C</u>
7 XDCRDATE	Create Date	<u> 11</u> 10	<u>C</u>
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Panel Help	
DFSMSrmm Report Criteria - ANOTHER Command ===> Scroll ===	> PAGE
Report title : Another Inventory List by Volume Serial	Extr
DFSMSrmm Report Criteria Details - ANOTHER Field name : XDDSNAME Operation EQ Enter "/" to select additional options:	
<pre>_ Select from available equated values Or enter compare value(s): Compare value(s) . OFFSITE Conjunction AND Substring position 6 Substring length 7 Orig field length : 44</pre>	+
Type <u>C</u> Original field type : C	



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- Compare value is case sensitive
- Conjunctions:
 - AND condition
 - OR condition
 - AND(beginning of a nested conjunction
 -)AND end of a nested conjunction
- Substring Position
 - Starting position of field
- Substring Length
 - Data length to be compared



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.command ===>		0 1 1
		Scroll =
Report title <u>Anot</u>	<u>her Inventory List by Volume Se</u>	erial
Report footer <u>With</u>	Shorter Column Headers	
Reporting tool . : SYNC	TOOL	Report wid
Enter "/" to select opt	ion	
_ Edit the help inform	ation for this report	
Use END to save changes	or CANCEL	
The following line comm	ands are valid: S, and R	
S CO SO Field name	Column header text	CW
_ <u> </u>		<u> </u>
<u>* 1 2A</u> XVVOLSER	Volume	<u>8</u> 8
<u>* 1 2A</u> XVVOLSER <u>* 2</u> XDDSNAME	<u>Volume</u> Dataset name	<u>8</u> 6 44
<u>* 1 2A</u> XVVOLSER <u>* 2</u> XDDSNAME <u>3</u> XVEXPDT	<u>Volume</u> Dataset name Expire Date	8 6 44 11
<u>* 1 2A</u> XVVOLSER <u>* 2</u> XDDSNAME <u>3</u> XVEXPDT <u>4</u> XVVOLSEQ	Volume Dataset name Expire Date Volseq	8 6 44 11 6
XVSTORID * 1 2A XVVOLSER * 2 XDDSNAME _ 3 XVEXPDT _ 4 XVVOLSEQ _ 5 3A	<u>Volume</u> Dataset name Expire Date Volseq DSNseq	
* 1 2A XVVOLSER * 2 XDDSNAME _ 3 XVEXPDT _ 4 XVVOLSEQ _ 5 3A XDDSNSEQ 6	Volume Dataset name Expire Date Volseq DSNseq Create Job	8 6 44 11 6 6 6 10

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Once your AdHoc report is customized it's time to give it a test run

• Use the 'G' option to generate the JCL

• If your installation allows, you can request that an RMM CDS Extract step is added to the beginning of your JCL

• Use the 'J' option to edit and/or submit the JCL

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<u>P</u> anel <u>H</u> elp		
DFSMSrmm Report Command ===>	Definitions Row 1 to Scroll =	15 of 49 ==> <u>PAGE</u>
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
G ANOTHER Another Inventory List by Volu ARCGAB01 ABARS ABACKUP Statistics ARCGAR01 ABARS ARECOVER Statistics ARCGDB01 DCOLLECT BACKUP DATA ARCGDD01 DCOLLECT DASD CAPACITY PLANNIN ARCGDM01 DCOLLECT MIGRATION DATA ARCGDT01 DCOLLECT TAPE CAPACITY PLANNIN ARCGS001 Statistics for DFSMShsm ARCGS002 Statistics for Backup	Extended Extract Records DFSMShsm ABARS Report DFSMShsm ABARS Report DFSMShsm DCOLLECT BACKUP DFSMShsm DCOLLECT DASD CAP DFSMShsm DCOLLECT MIGRATION DFSMShsm DCOLLECT TAPE CAP DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records	SHARA01 HSM HSM SHARA01 HSM HSM SHARA01 HSM
_ ARCGS003 Statistics for Migration	DFSMShsm FSR-SMF Records	HSM LSM
_ ARCGS005 Statistics for Recovery _ ARCGS006 Statistics for Volume Dump	DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records	HSM HSM
<pre>_ ARCGS007 Statistics for Restore from Du _ ARCGS008 Statistics for FRBACKUP</pre>	DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records	HSM HSM



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Panel Help	
<u>Panel H</u> elp	
DFSMSrmm JCL Help for ANOTHER	
Command ===>	Scroll ===> <u>PAGE</u>
Help information for the generation of the report JCL.	
If during the report generation an extract step is req - Create report data Y (Y/N)	uested:
then a DFSMSrmm Inventory Management step is included.	
is the output data set of the Inventory management ste	report p, and
must be pre-allocated.	
Enter END command or press PF3 to continue	
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<u>P</u> anel <u>H</u> elp
DFSMSrmm Report Generation - ANOTHER Command ===>
Enter or change the skeleton variables for the generated JCL:
Input data set <u>'SHARA01.RMM.EXTRACT'</u>
Date format <u>JULIAN</u> (American, European, Iso, Julian, or free form) Required if you use variable dates (&TODAY) in your selection criteria.
Create report data <u>Y</u> (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 <u>DATEFORM(J)</u> Skeleton Variable_2 <u>'SHARA01.RMMHSKP.MESSAGE'</u> 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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<u>P</u> anel <u>H</u> elp			canado nom
Command ===>	DFSMSrmm Report [Definitions Row 1 to	15 of 49 ===> <u>PAGE</u>
The following	g line commands are valid: A,[D,G,H,J,L,M,N,S, and T	
S Name Re	eport title	Report type	User id
J ANOTHER Ar ARCGAB01 AE ARCGAR01 AE ARCGDB01 DC ARCGDD01 DC ARCGDM01 DC ARCGDT01 DC ARCGS001 ST ARCGS002 ST ARCGS003 ST ARCGS004 ST	Another Inventory List by Volu BARS ABACKUP Statistics BARS ARECOVER Statistics COLLECT BACKUP DATA COLLECT DASD CAPACITY PLANNIN COLLECT MIGRATION DATA COLLECT TAPE CAPACITY PLANNIN tatistics for DFSMShsm tatistics for Backup tatistics for Migration tatistics for Recall	Extended Extract Records DFSMShsm ABARS Report DFSMShsm ABARS Report DFSMShsm DCOLLECT BACKUP DFSMShsm DCOLLECT DASD CAP DFSMShsm DCOLLECT MIGRATION DFSMShsm DCOLLECT TAPE CAP DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records DFSMShsm FSR-SMF Records	SHARA01 HSM SHARA01 HSM HSM SHARA01 HSM HSM HSM
_ ARCGS006 _ ARCGS007	Report JCL ANOTHER stored or	n 'SHARA01.REPORT.JCL'	HSM HSM
_ ARCGS008 St	tatistics for FRBACKUP	DFSMShsm FSR-SMF Records	HSM
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<u>F</u> ile <u>E</u> dit E <u>d</u> it_Settings <u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>T</u> est <u>H</u> elp
EDIT SHARA01.REPORT.JCL(ANOTHER) - 01.00 Columns 00001 00072 Command ===> Scroll ===> PAGE
000001 //SHARA01 JOB ().'RMMLAB'.CLASS=A.MSGCLASS=H.
000002 // USER=&SYSUID, NOTIFY=&SYSUID
000003 //*
000004 //*
000005 //*
000006 //*******************************
000007 //** SKELETON MEMBER EDGSGSYN
000008 //** TAILORED BY THE RMM REPORT GENERATOR FOR REPORT ANOTHER
000009 //*******************************
000010 //STEP01 EXEC PGM=EDGHSKP,PARM='RPTEXT,DATEFORM(J)',REGION=32M
000011 //SYSPRINT DD SYSOUT=*
000012 //MESSAGE DD DSN=SHARA01.RMMHSKP.MESSAGE,
000013 // DISP=SHR
000014 //XREPTEXT DD DSN=SHARA01.RMM.EXTRACT,
000015 // DISP=SHR
000016 //***********************************
000017 //** STEPS TO SOLVE TITLE VARIABLES @N2A
000018 //***********************************
000019 //TITVAR1 EXEC PGM=IDCAMS

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<u>F</u> ile <u>E</u> dit E <u>d</u> it_Settings <u>M</u> enu <u>U</u> tilities <u>C</u> ompilers <u>T</u> est <u>H</u> elp
EDIT SHARA01.REPORT.JCL (ANOTHER) - 01.00 Columns 00001 00072 Command ===>
000056 //SYSPROC DD DISP=SHR, DSN=SYS1.SEDGEXE1
000057 //SYSTSPRT DD SYSOUT=*
000058 //DATEFMT DD *
000059 DATE PATTERN: YYYY/DDD
000060 //INCLIN DD *
000061 OPTION VLSHRT, VLSCMP, NOCHALT
000062 INCLUDE COND=((5,1,CH,EQ,C'X'),
000063 AND,
000064 (322, 8, CH, EQ, C'MASTER'),
000065 AND,
000066 ((9,6,CH,GE,C'000000'),
000067 AND,
000068 (9,6,CH,LE,C'299999')),
000069 AND,
000070 (814,7,CH,EQ,C'OFFSITE'))
000071 INREC FIELDS=(1,4,
000072 156,8,C'',
000073 9,6,C'',
000074 809,44,C'',
000075 119,10,C'',

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- Report Types
 - A Report Type is used to describe record types to the Report Generator
 - It identifies the Assembler language mapping macro(s) and keywords that describe the format of the input records
 - Defines a default input data set name
 - You can build your own macros and use Report Types to define them to the Report Generator
 - The Report Generator can then be used to report on almost any data





	<u>P</u> anel <u>H</u> elp	
0n	tion === 2	DFSMSrmm Report Generator
op	<u>2</u>	
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
En	ter selected opt	ion or END command. For more info., enter HELP or PF1.

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Select option '2' in order to display and update available Report types



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<u>P</u> anel <u>H</u> elp	
DFSMSrmm Report Types Command ===>	Row 8 to 11 of 32 Scroll ===> <u>CSR</u>
The following line commands are valid: A,C,D,H,L,M,R, and S	
S Name Description	
<u>A</u> EDGRXEXT Extended Extract Records Macro library : 'SYS1.MACLIB' Applicable macros : EDGRXEXT Input data set : 'LHANNA.CDS.EEXTRACT'	
EDGRSEXT Extract Records for Bins Macro library : 'SYS1.MACLIB' Applicable macros : EDGRSEXT Input data set : 'RMM.EXTRACT'	
EDGRDEXT Extract Records for Data Sets Macro library : 'SYS1.MACLIB' Applicable macros : EDGRDEXT Input data set : 'RMM.EXTRACT'	
EDGROEXT Extract Records for Owners Macro library : 'SYS1.MACLIB' Applicable macros : EDGROEXT Input data set : 'RMM.EXTRACT'	

Either create your own type from scratch or copy an existing one.

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Panel Help	
DFSMSrmm Report Types Row 9 to 12 of 33 Command ===> Scroll ===> PAGE	
The following line commands are valid: A,C,D,H,L,M,R, and S	
Add a Report Type	Cha
Report type name Description <u>XExtract Recs with DSN/VOL#</u> Macro library <u>'DNET218.MACLIB'</u> Applicable macros: Macro Keywords (LEFT / RIGHT to scroll or EXPAND)	desc libra
• •	Defa for in
RDW in 1st macro <u>N</u> (Y/N) Input data set <u>'DNET218.RMM.EXTRACT.FIXED'</u>	also with
Applicable macros : EDGROEXT Input data set : 'RMM.EXTRACT'	

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Change name, description and source library.

Default dataset name for input extract can also be listed along with RDW if its VB.





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Copy original definition and update it to reflect the modified extract you will use for input.



<u>M</u>enu <u>U</u>tilities <u>C</u>ompilers <u>H</u>elp BROWSE DNET218.CLIST(COPYEXT) - 01.07 Line 00000000 Col 001 080 Command ===> Scroll ===> CSR /* Rexx */ done = 0 Do Forever Until done 'EXECIO 5000 DISKR RPTEXTI (STEM RPTEXTI.' If rc > 0 Then done = 1Do x = 1 To rptexti.0 If Substr(rptexti.x,1,1) ¬= 'X' Then Do rptexto.x = Substr(rptexti.x,1,1797) Iterate End tst_dsq = Strip(Substr(rptexti.x, 1322, 5), 'L') If tst_dsq < 2 Then vol = '1' Else rptexto.x = Substr(rptexti.x,1,1797)||vol||'1' End 'EXECIO' rptexti.0 'DISKW RPTEXTO (STEM RPTEXTO.' End Exit

This Rexx will append a 1 to the end of every record for each dataset and volume



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<u>M</u> enu <u>U</u>	tilities <u>C</u> omp	ilers <u>H</u> elp					
BROWSE Command ==	DNET218.JCL (C	OPYEXT) - 01.0	91	Line OO	000000 Col _ Scroll =:	001 ==> C	080 SR
******	****	******* Тор	of Data ****	*****		****	****
//HANNARMM //*	JOB CLASS=A,M	SGCLASS=H, TIM	E=1440,NOTIF	Y=DNET218			
//COPYEXT	EXEC PGM=IKJE	FT01, PARM='%C	OPYEXT'				
//SYSPROC	DD DISP=SHR, D	SN=DNET218.CL	IST				
//RPTEXTI	DD DISP=SHR, D	SN=DNET218.RMI	A.EXTRACT				
//RPTEXTO	DD DISP=OLD, D	SN=DNET218.RM	A.EXTRACT.FI>	XED			
//SYSTSPRT	DD SYSOUT=*						
//SYSTSIN	DD DUMMY						
11							
******	*****	******* Botte	om of Data **	*****	*****	****	****

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The JCL ...

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<u>M</u> enu <u>U</u> t	ilities	<u>C</u> ompile	rs <u>H</u> elp		
BROWSE	DNET218.R	MM.EXTR	ACT.FIXED		Line 00000027 Col 01721
Command ==	=>				Scroll ===> <u>CSR</u>
1.46	97281	1.09	6142	Θ	1
1.46	97281	1.78	3066	Θ	11
0.00	Θ				11
1.35	135877	1.34	4410	Θ	1
1.35	135877	1.72	2943	Θ	1
1.35	135877	1.11	5704	Θ	1
1.35	135877	1.58	2495	Θ	1
1.35	135877	1.05	2495	Θ	1
1.35	135877	1.33	702	Θ	1
1.35	135877	1.24	896	Θ	1
1.35	135877	3.74	61	Θ	1
1.35	135877	1.90	2373	Θ	1
1.35	135877	1.15	5948	Θ	1
1.35	135877	1.04	6529	Θ	1
1.35	135877	1.10	6142	Θ	1
1.35	135877	1.61	2434	Θ	1
1.35	135877	1.25	2689	Θ	1
1.35	135877	1.12	2811	Θ	1
1.35	135877	1.09	6274	Θ	1
1.35	135877	1.80	2108	Θ	1
1.35	135877	1.03	5510	Θ	1
1.35	135877	1.05	5246	Θ	1
1.35	135877	1.35	1792	Θ	1
1.35	135877	1.36	4094	Θ	
1.35	135877	1.10	6203	Θ	
1.35	135877	1.36	4359	0	
1.35	135877	1.33	4543	0	
1.35	135877	1.51	24895	0	

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The Extract ...

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Tips & Tricks

<u>P</u> anel	<u>H</u> elp				
Command	DFSMSrmm ===>	Report Definition - TESTTYPE Row So	1 to 1 croll =	6 of ==>	217 PAGE
Report t	itle <u>Master Vol</u>	ume/Dataset Report			+
Report f	ooter <u>Test VOL a</u>	nd DSN counters			
Reportin	g tool . : ICETOOL	Repo	ort wid	th:	31
Enter "/	" to select option				
_ Edit	the help information	for this report			
Use END The foll	to save changes or CF owing line commands a	NCEL re valid: S, and R	011		Turr
S CU SU	Field name	Column header text	CW	Len	тур
1	XVVOLSER	<u>Volume serial number</u>	6	6	<u>C</u>
<u>* 2</u>	XVSTATUS	<u>Volume status</u>	<u> </u>	8	<u>C</u>
3	XVOLCNT	Vols	4	1	<u>N</u>
4	XDSNCNT	<u>Dsns</u>	4	1	<u>N</u>
<u>*</u>	RXTYPE	<u>Record type - C'X'</u>	6	1	<u>C</u>
	XVPVOL	<u>Previous volume in sequence</u>	9	6	<u>C</u>
	XVNVOL	Next volume in sequence	7	6	<u>C</u>
	XVSTVOL	<u>Stacked volume VolSer (SV/LV)</u>	9	6	<u>C</u>
	XVMDMVID	<u>Multi-dataset multi-volume id</u>	9	8	<u>C</u>
	XVCRDATE	Create date of volume record	<u> 10</u>	10	<u>C</u>
	XVCRTIME	<u>Create time volume record (hhmms</u>	10	6	<u>C</u>
	XVCRSID	<u>Create system id of volume recor</u>	<u> 10</u>	8	<u>C</u>
	XVLCDATE	Last change date of volume recor	<u> 10</u>	10	<u>C</u>
	XVLCTIME	Last change time of volume recor	10	6	<u>C</u>
	XVLCUID	Last change user id of volume	9	8	<u>C</u>
	XVLCSID	Last change system id of volume	10	8	<u>C</u>

The Definition ...

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SDSF OU COMMAND	TPUT DISF INPUT ==	PLAY HANNAZA ==>	L JOB11196	DSID	108	3 LINE 1,456	COLUMNS 02- 81 SCROLL ===> <mark>CSR</mark>
300149	MASTER	 0					
300149	MASTER	1	1				
300150	MASTER	0	1				
300150	MASTER	0	1				
300150	MASTER	Ο	1				
300150	MASTER	Ο	1				
300150	MASTER	Ο	1				
300150	MASTER	Ο	1				
300150	MASTER	Θ	1				
300150	MASTER	Θ	1				
300150	MASTER	Θ	1				
300150	MASTER	Θ	1				
300150	MASTER	Θ	1				
300150	MASTER	Ο	1				
300150	MASTER	Ο	1				
300150	MASTER	Ο	1				
300150	MASTER	Θ	1				
800150	MASTER	Θ	1				
300150	MASTER	Θ	1				
300150	MASTER	Θ	1				
300150	MASTER	0	1				
300150	MASTER	0	1				
00150	MASTER	1	1				
est VOL	and DSN	counters					
		62	1323				

The Report ...

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- Reporting Tools
 - The Report Generator is used to build control statements that are used by a reporting utility such as DFSORT's ICETOOL
 - Report Tool definitions are provided for ICETOOL and SYNCTOOL
 - A common exec supports both. Unique ISPF Skeletons are used
 - The Report Tool definition tells the Report Generator which REXX EXEC is used to build the correct control statements for the desired reporting utility
 - It also allows you to specify how many spaces should separate report columns and whether Unique or Mixed grouping is supported by the utility
 - You can write your own REXX routines to support other reporting utilities and define them to the Report Generator using a Report Tool definition
 - Refer to the "DFSMSrmm Reporting" manual, "Chapter 2. Using the DFSMSrmm Report Generator", under the section "Writing Reporting Tool EXECs" for more information on the REXX variables used by the Report Generator



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Panel Help
DFSMSrmm Report Generator
Option ===> <u>3</u>
OOPTIONS- Specify dialog options and defaults1REPORT- Work with reports2REPORT TYPE- Work with report types3REPORTING TOOL- Work with reporting tools4MIGRATION- Migration tasks for reporting
Enter selected option or END command. For more info enter HELP or PE1
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Its also possible to create custom reporting tools ...

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Start by copying an existing definition or create from scratch ...



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Tips & Tricks

DFSMSrmm Reporting Tools Row 1 to 5 of 9 Scroll ===> CSR The following line commands are valid: A,C, and D S Reporting tool Exec Skeleton Colspace Group sort DFSORT Add a Reporting Tool ICETOOL 1S A SAS SYNCTOOL ***********************************	Panel Help					
The following line commands are valid: A,C, and D S Reporting tool Exec Skeleton Colspace Group sort DFSORT ICETOOL ICETOOL IS A SAS SYNCTOOL *********** Reporting tool Exec	Command ===>	DFSMSrmm Reporting Tools Row 1 Scroll	to 5 ===>	o f CSR		
S Reporting tool Exec Skeleton Colspace Group sort DFSORT ICETOOL ICETOOL 1S A SAS SYNCTOOL ***********************************	The following	line commands are valid: A,C, and D				
DFSORT Add a Reporting Tool ICETOOL IS A SAS Reporting tool SYNCTOOL Exec EDGRGSAS ************************************	S Reporting to	ool Exec Skeleton Colspace Group so	rt			
	DFSORT ICETOOL 1S A SAS SYNCTOOL ****	Add a Reporting Tool Reporting tool Exec		**		

You will also need to create the Exec to process data from the panel to generate valid syntax for the JCL skeleton ...



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Tips & Tricks



- Relative Date Comparisons
 - You can use &TODAY alone or with + or n days, months or years to perform date checking relative to the report run date
 - 'n' is limited to 365 days, or 60 months, or 50 years
 - Example:
 - XDCRDATE GE &TODAY 2 Months
 - Will select all datasets created within the last two months
- Field to Field Comparisons
 - You can use &FIELD= to check one field against data contained in another field
 - Example:
 - XVOWNID NE &FIELD=XVCRUID
 - Will only select records if the content of field XVOWNID is not equal to the content of field XVCRUID



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Sample Reports



Name	Report Title	Report Type
ARCGAB01	ABARS ABACKUP Statistics	ABARS
ARCGAR01	ABARS ARECOVER Statistics	ABARS
ARCGDB01	DCOLLECT BACKUP Data	DCOLLECT BACKUP
ARCGDD01	DCOLLECT DASD CAPACITY PLANNING	DCOLLECT DASD CAPACITY
ARCGDM01	DCOLLECT MIGRATION Data	DCOLLECT MIGRATION
ARCGDT01	DCOLLECT TAPE CAPACITY PLANNING	DCOLLECT TAPE CAPACITY
ARCGS001	DFSMShsm Statistics	DCOLLECT TAPE CAP
ARCGS002	Backup Statistics	DFSMShsm FSR-SMF Records
ARCGS003	Migration Statistics	DFSMShsm FSR-SMF Records
ARCGS004	Recall Statistics	DFSMShsm FSR-SMF Records
ARCGS005	Recover Statistics	DFSMShsm FSR-SMF Records
ARCGS006	Volume Dump Statistics	DFSMShsm FSR-SMF Records
ARCGS007	Restore from Dump Statistics	DFSMShsm FSR-SMF Records
ARCGS008	FRBACKUP Statistics	DFSMShsm FSR-SMF Records
ARCGS009	FRRECOV Statistics	DFSMShsm FSR-SMF Records
ARCGS010	DFSMShsm Thrashing	DFSMShsm FSR-SMF Records

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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/

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