

OS/390



# DFSMSrmm Reporting



OS/390



# DFSMSrmm Reporting

**Note!**

Before using this information and the product it supports, be sure to read the general information under "Notices" on page 243.

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This edition applies to Version 2 Release 10 of OS/390 (5647-A01) and to all subsequent releases and modifications until otherwise indicated in new editions.

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## About This Book

This book tells you how to create reports for DFSMSrmm™ resources. It is intended for storage administrators, system programmers, and application programmers responsible for implementing, customizing, and using DFSMSrmm. This book includes a section about using DFSORT™ symbols, which became available with DFSORT Release 14.

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## Required Product Knowledge

To use this book effectively, you should be familiar with:

- Using DFSMSrmm Utilities
- Using DFSORT and the DFSORT ICETOOL
- Using ISPF
- Writing REXX EXECs
- Using the RMM TSO Subcommands

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## Referenced Publications

The following publications have additional information about DFSMSrmm:

<b>Publication Title</b>	<b>Order Number</b>
<i>OS/390 DFSMSrmm Application Programming Interface</i>	SC26-7332
<i>OS/390 DFSMSrmm Command Reference Summary</i>	SX26-6020
<i>OS/390 DFSMSrmm Diagnosis Guide</i>	SY27-7612
<i>OS/390 DFSMSrmm Guide and Reference</i>	SC26-7333
<i>OS/390 DFSMSrmm Implementation and Customization Guide</i>	SC26-7334

This book also refers to the following publications:

<b>Title</b>	<b>Order Number</b>
<i>DFSORT Application Programming Guide Release 14</i>	SC33-4035
<i>Getting Started with DFSORT Release 14</i>	SC26-4109

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## Notational Conventions

This section explains the notational conventions used in this book.

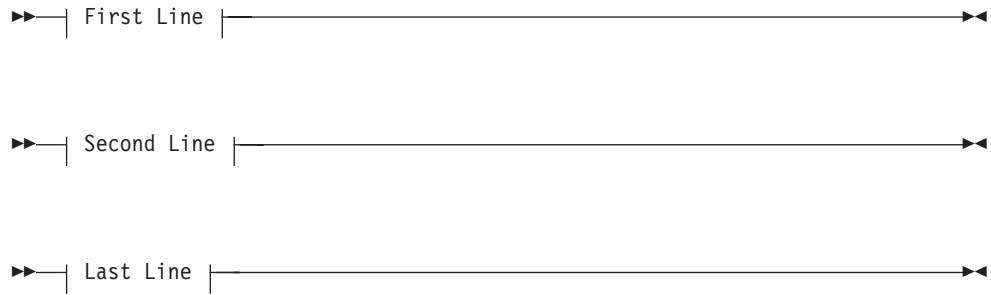
## How to Read Syntax Diagrams

Throughout this library, diagrams are used to illustrate the programming syntax. Keyword parameters are parameters that follow the positional parameters. Unless otherwise stated, keyword parameters can be coded in any order. The following list tells you how to interpret the syntax diagrams:

- Read the diagrams from left-to-right, top-to-bottom, following the main path line. Each diagram begins on the left with double arrowheads and ends on the right with two arrowheads facing each other.



- If a diagram is longer than one line, each line to be continued ends with a single arrowhead and the next line begins with a single arrowhead.



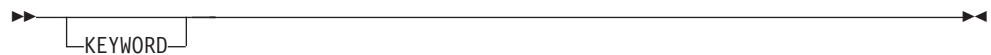
- Required keywords and values appear on the main path line. You must code required keywords and values.



If several mutually exclusive required keywords or values exist, they are stacked vertically in alphanumeric order.



- Optional keywords and values appear below the main path line. You can choose not to code optional keywords and values.



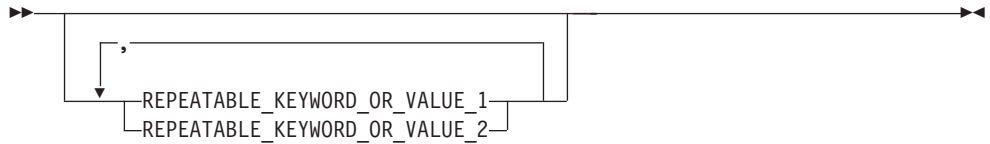
If several mutually exclusive optional keywords or values exist, they are stacked vertically in alphanumeric order below the main path line.



- An arrow returning to the left above a keyword or value on the main path line means that the keyword or value can be repeated. The comma means that each keyword or value must be separated from the next by a comma.



- An arrow returning to the left above a group of keywords or values means more than one can be selected, or a single one can be repeated.



- A word in all uppercase is a keyword or value you must spell exactly as shown. In this example, you must code **KEYWORD**.

▶▶—KEYWORD—▶▶

If a keyword or value can be abbreviated, the abbreviation is discussed in the text associated with the syntax diagram.

- If a diagram shows a character that is not alphanumeric (such as parentheses, periods, commas, and equal signs), you must code the character as part of the syntax. In this example, you must code **KEYWORD=(001,0.001)**.

▶▶—KEYWORD=(001,0.001)—▶▶

- If a diagram shows a blank space, you must code the blank space as part of the syntax. In this example, you must code **KEYWORD=(001 FIXED)**.

▶▶—KEYWORD=(001 FIXED)—▶▶

- Default keywords and values appear above the main path line. If you omit the keyword or value entirely, the default is used.



- A word in all lowercase italics is a *variable*. Where you see a variable in the syntax, you must replace it with one of its allowable names or values, as defined in the text.

▶▶—*variable*—▶▶

- References to syntax notes appear as numbers enclosed in parentheses above the line. Do not code the parentheses or the number.

(1)  
▶▶—KEYWORD—▶▶

#### Notes:

- 1 An example of a syntax note.
- Some diagrams contain *syntax fragments*, which serve to break up diagrams that are too long, too complex, or too repetitious. Syntax fragment names are in

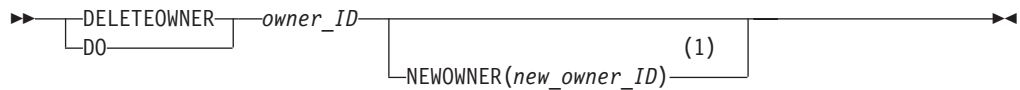
mixed case and are shown in the diagram and in the heading of the fragment. The fragment is placed below the main diagram.



**Syntax Fragment:**



The following figure shows an example of a syntax diagram.



**Notes:**

- 1 Must be specified if the owner owns one or more volumes.

*Figure 1. Example of the DFSMSrmm DELETEDOWNER Syntax Diagram*

The possible valid versions of the RMM DELETEDOWNER command are:

```
RMM DELETEDOWNER owner
RMM DO owner
RMM DELETEDOWNER owner NEWOWNER(new_owner)
RMM DO owner NEWOWNER(new_owner)
```

## How to Abbreviate Commands and Operands

The TSO abbreviation convention applies for all DFSMSrmm commands and operands. The TSO abbreviation convention requires you to specify as much of the command name or operand as is necessary to distinguish it from the other command names or operands.

Some DFSMSrmm keyword operands allow unique abbreviations. All unique abbreviations are shown in the command syntax diagrams.

## How to Use Continuation Characters

The symbol - is used as the continuation character in this book. You can use either - or +.

- Do not ignore leading blanks on the continuation statement
- + Ignore leading blanks on the continuation statement

## Delimiters

When you type a command, you must separate the command name from the first operand by one or more blanks. You must separate operands by one or more blanks or a comma. Do not use a semicolon as a delimiter because any character you enter after a semicolon is ignored.



## Character Sets

To code job control statements, use characters from the character sets in Table 1. Table 2 lists the special characters that have syntactical functions in job control statements.

Table 1. Character Sets

Character Set	Contents	
Alphanumeric	Alphabetic Numeric	Capital A through Z 0 through 9
National (See note)	“At” sign Dollar sign Pound sign	@ (Characters that can be \$ represented by hexadecimal # values X'7C', X'5B', and X'7B')
Special	Comma Period Slash Apostrophe Left parenthesis Right parenthesis Asterisk Ampersand Plus sign Hyphen Equal sign Blank	, . / ' ( ) * & + - =
EBCDIC text	EBCDIC printable character set	Characters that can be represented by hexadecimal X'40' through X'FE'
<p><b>Note:</b> The system recognizes the following hexadecimal representations of the U.S. National characters; @ as X'7C'; \$ as X'5B'; and # as X'7B'. In countries other than the U.S., the U.S. National characters represented on terminal keyboards might generate a different hexadecimal representation and cause an error. For example, in some countries the \$ character may generate a X'4A'.</p>		

Table 2. Special Characters Used in Syntax

Character	Syntactical Function
,	To separate parameters and subparameters
=	To separate a keyword from its value, for example, BURST=YES
( b )	To enclose subparameter list or the member name of a PDS or PDSE
&	To identify a symbolic parameter, for example, &LIB
&&	To identify a temporary data set name, for example, &&TEMPDS, and, to identify an in-stream or sysout data set name, for example, &&PAYOUT
.	To separate parts of a qualified data set name, for example, A.B.C., or parts of certain parameters or subparameters, for example, nodename.userid
*	To refer to an earlier statement, for example, OUTPUT=*.name, or, in certain statements, to indicate special functions: //label CNTL * //ddname DD * RESTART=* on the JOB statement
'	To enclose specified parameter values which contain special characters
(blank)	To delimit fields

---

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## Chapter 1. Creating DFSMSrmm Reports

DFSMSrmm is an OS/390® feature. You can use different ways to create DFSMSrmm reports or get DFSMSrmm information. You should select the best approach each time you gather your information. First, decide the kind of information you need and the way you will read or present the information. You might find that RMM TSO subcommands or the DFSMSrmm ISPF dialog provides the best approach.

The RMM TSO subcommands and the DFSMSrmm ISPF dialog share some similarities. The dialog allows you to view the information in real time and in predefined formats. The dialog also allows you to decide dynamically which further details you want to view. You can use the RMM TSO subcommands to obtain the kind of information that you obtain when you use the DFSMSrmm ISPF dialog. The difference is that you do not have full-screen viewing capability when you use the RMM TSO subcommands. You can use the commands interactively or submit them in batch. You can save the batch job input which allows you to reuse the commands so you can run the job when it is required.

Consider using the DFSMSrmm-supplied standard reports for reporting requirements, to view online or printed reports on an impromptu or regular basis. DFSMSrmm has included many standard reports that you can create using the EDGRPTD and EDGAUD utilities or the EDGRRPTE reporting exec. DFSMSrmm also provides standard reports that are generated from inventory management and that cover vital record specification matching and retention, run-time statistics, and control data set change activity.

Another way to produce reports is to use a sort utility like DFSORT or DFSORT's ICETOOL. With DFSORT or DFSORT's ICETOOL, you can create customized reports from the available DFSMSrmm information, such as the extract data set, the activity file, and System Management Facility (SMF) records.

Finally, if you need to provide information from DFSMSrmm directly into an application or product, you can use the DFSMSrmm application programming interface (API). You need high-level assembler knowledge and skills to implement the API. As a result, the development time and resource required to use the API might be higher than when using other methods to obtain information from DFSMSrmm.

---

### Using the DFSMSrmm ISPF Dialog and RMM TSO Subcommands

You can search online, using the DFSMSrmm ISPF dialog or RMM TSO subcommands, to create lists of resources and display information recorded in the DFSMSrmm control data set. Here are some examples.

- Operators can create lists of scratch volumes to be pulled for use.
- Tape librarians and system programmers can create lists of software products and the volumes on which they reside.
- General users can create lists of volumes they own, such as the example in Figure 2 on page 2:

Volume	Owner	Rack	Assigned date	Expiration date	Location	Dsets	St Act	Dest.
VOL600	AMYW01	RAC500	06/11/2000	11/11/2000	SHELF	0	UR SI	
VOL601	AMYW01	RAC501	06/11/2000	11/11/2000	SHELF	0	UR SI	
VOL603	AMYW01	RAC502	06/11/2000	11/11/2000	SHELF	0	UR SI	

EDG3011I 3 ENTRIES LISTED

Figure 2. Example of a List of Volumes Owned by a Single User

With DFSMSrmm, you can use the RMM TSO SEARCH subcommands with the CLIST operand to create a data set of executable subcommands. For example, you can create subcommands to confirm volume movement for volumes that are identified during a SEARCHVOLUME request. See *OS/390 DFSMSrmm Guide and Reference* for more information about the RMM SEARCHVOLUME subcommand.

---

## Using the DFSMSrmm Inventory Management EDGHSKP Utility

DFSMSrmm provides the EDGHSKP utility to help you perform inventory management. You can create reports as part of inventory management processing as described in “Chapter 2. Creating Inventory Management Reports” on page 5. See *OS/390 DFSMSrmm Implementation and Customization Guide* for information about DFSMSrmm inventory management processing.

---

## Using the EDGRPTD and EDGAUD Report Utilities

You can create several types of standard reports by using the DFSMSrmm report utilities EDGRPTD and EDGAUD. See “Chapter 3. Creating Reports with DFSMSrmm Utilities” on page 25 for additional information. Use EDGRPTD to create movement, inventory, and scratch reports and EDGAUD to create security and audit reports. EDGRPTD uses the DFSMSrmm extract data set created with EDGHSKP,PARM=RPTEXT as input. EDGAUD uses SMF records as input.

You can use the reports to perform these activities.

- Identify volumes that should be moved between the removable media library and storage locations.
- Determine your volume inventory in the removable media library and storage locations.
- Identify volumes that are in transit.
- Identify volumes should be marked as moved.
- Identify all accesses to volumes and changes to information recorded in the DFSMSrmm control data set.
- Separate volumes that are waiting to return to scratch from those that are private or have other release actions pending.
- Identify new scratch volumes or the entire scratch inventory.

---

## Using the DFSMSrmm EDGRRPTE Exec

DFSMSrmm provides standard reports and samples that are shipped in SAMPLIB. Use the EDGJRPT sample job control language (JCL) to run the EDGRRPTE exec to produce reports, using the DFSMSrmm extract data set as input. See “Chapter 4. Creating Reports Using DFSMSrmm-Supplied EXECs” on page 45 for additional information.

---

## Using DFSORT and the DFSORT ICETOOL Utility

You can use DFSORT or a similar program to generate a formatted report using the DFSMSrmm extract data set, activity file, or SMF records. For example, you could produce a list of volumes on virtual machine (VM) with information about volume owners. Then use DFSORT's ICETOOL utility to sort the information by volume and produce a report, complete with title and header information.

You can use DFSORT symbols for fields and constants to further simplify the report writing process. Using symbols increases your productivity by automatically providing the positions, lengths, and formats of the fields, and the values of the constants associated with the particular records you are processing with DFSORT and DFSORT's ICETOOL. See "Chapter 5. Using DFSMSrmm with DFSORT" on page 75 for further information.

---

## Using the DFSMSrmm Application Programming Interface

You can use the DFSMSrmm application programming interface to obtain information about the resources that are defined to DFSMSrmm. See the *OS/390 DFSMSrmm Application Programming Interface* for information about how to use the DFSMSrmm application programming interface.



---

## Chapter 2. Creating Inventory Management Reports

DFSMSrmm provides the EDGHSKP utility to help you perform inventory management. You can create standard reports as part of inventory management processing as described in *OS/390 DFSMSrmm Implementation and Customization Guide*. These reports include the vital record specification reports, the extract data set that is used as input to report utilities, and the activity file.

You can specify different date formats and dates in the EDGHSKP execution parameters. The execution parameters are DATE and DATEFORMAT. The DATE parameter only affects the content of the ACTIVITY file and the REPORT file. DFSMSrmm produces the reports using any date you specify as the run date. For example, you can use a date in the future to create a report on the actions DFSMSrmm might take in the future. The DATEFORM parameter determines the date format used in each of the ACTIVITY file, REPORT file, and extract data set file.

Before you can run the EDGHSKP utility, you need to define several data sets. Some data sets used during inventory management must be pre-allocated and cataloged because these data sets are used by both the EDGHSKP utility and the DFSMSrmm subsystem. If you plan to retain multiple versions of these data sets, consider using a subsequent job step to copy them to a new generation of a generation data group (GDG).

Table 3 shows the data sets used for inventory management reports, along with a description of each.

*Table 3. Data Sets Used for Inventory Management Reports*

<b>Report</b>	<b>Description</b>
ACTIVITY	Contains detailed information about data set related changes DFSMSrmm makes to the control data set during inventory management. This data set is required when you specify the VERIFY parameter.
MESSAGE	Lists the messages the DFSMSrmm subsystem issues during inventory management. This data set is required.
REPORT	Contains a detailed report of DFSMSrmm vital record specification processing. The data set is optional and is used when you have specified the VRSEL parameter.
REPTEXT	Contains the extract copy of the DFSMSrmm control data set. The extract copy is called the extract data set. The extract data set is required when you specify the RPTEXT parameter.

When you protect these data sets, make sure that the RACF® user ID associated with the DFSMSrmm subsystem has the authority to write to the data sets. RACF is a component of the Secureway Security Server for OS/390.

---

## Using the DFSMSrmm Inventory Management Vital Record Specification Report

DFSMSrmm produces a vital records retention report to the REPORT DD during inventory management processing. Use the report to:

- Check the vital record specifications that match to data sets and volumes.
- Identify the versions of the data sets that are being retained.
- Check the required location for each data set and volume.

See *OS/390 DFSMSrmm Implementation and Customization Guide* for details about setting up DFSMSrmm to produce the report.

---

## Using the Extract Data Set

You can request that an extract data set that contains information from the control data set is created during DFSMSrmm inventory management. Use the extract data set as input to EDGRPTD, the DFSMSrmm reporting utility and to the EDGRRPTE exec to create reports. See “Chapter 3. Creating Reports with DFSMSrmm Utilities” on page 25 for information about using the EDGRPTD utility and the EDGRRPTE exec.

DFSMSrmm reads sequentially through its control data set and creates a record in the extract data set for each shelf location, volume, data set, software product, owner, and vital record specification records. DFSMSrmm converts information to printable format and can convert date fields into a format you specify. The extract data set is a point-in-time extract of the control data set contents. Use the RMM TSO SEARCH and LIST subcommands to obtain the most current information.

The extract data set can be sorted and used to create reports or lists of executable commands. See “Using EDGRPTD to Create Reports” on page 25 and “Chapter 5. Using DFSMSrmm with DFSORT” on page 75 for information about creating reports. You can place the extract data set on any volume.

You can specify different date formats for the extract data set by using the DATEFORMAT execution parameter of the DFSMSrmm EDGHSKP utility. DFSMSrmm writes a header record to the extract data set that contains the date format that was used. You can base your processing of the extract data set on this value rather than by analyzing the date fields themselves. Refer to “Extract Data Set Header Record: EDGRHEXT” on page 189 for the layout of the header record.

The current date is the default.

Table 4 shows the date formats that can be used for the records written to the extract data set, records that are written to the ACTIVITY file, and any messages issued during inventory management. The default date format for all date fields is the value specified in the parmlib member EDGRMMxx. The value is initially set to J for Julian. To change the date format for each run of EDGHSKP, use the DATEFORM parameter described in *OS/390 DFSMSrmm Implementation and Customization Guide*.

Table 4. Date Formats

Value	Language	Format	Example
A	American	mm/dd/yyyy	12/15/2000
E	European	dd/mm/yyyy	15/12/2000



Table 4. Date Formats (continued)

Value	Language	Format	Example
I	International Organization for Standardization (ISO)	yyyy/mm/dd	2000/12/15
J	Julian	yyyy/ddd	2000/350
D	Default	The date format specified in the DFSMSrmm EDGRMMxx parmlib member.	Initially set to Julian

DFSMSrmm provides the format of the records in the extract data set in mapping macros. See “General-use Programming Interface Mapping Macros” on page 185 for layouts of the macros. You can use DFSORT to sort the extract data set records to create many types of reports. See “Appendix A. DFSORT Symbols for Use with DFSMSrmm” on page 127.

For example, you could select the extract records that show volumes with temporary read errors. Sort the resulting list by descending number of errors. Use this list to determine which volumes you want to replace. You can then use the information as input to the RMM CHANGEVOLUME subcommand with the RELEASEACTION(REPLACE) operand to update DFSMSrmm with the required action.

---

## Using the Inventory Management ACTIVITY File

The ACTIVITY file is a pre-allocated direct access storage device (DASD) data set, like the REPORT file. The ACTIVITY file is not intended to be a report. The ACTIVITY file contains detailed information about changes made to data sets during vital record processing. The DFSMSrmm-supplied sample EDGJHKPA shows the JCL to allocate the ACTIVITY file, as well as other DFSMSrmm inventory management data sets. The DFSMSrmm-supplied sample EDGJACTP shows the JCL to report on the contents of the ACTIVITY file.

The ACTIVITY file is a variable-blocked file with the record length set to the largest record created by DFSMSrmm. The system determines the block size of the ACTIVITY file. See “ACTIVITY File Record Macro: EDGACTRC” on page 207 for a mapping of the ACTIVITY file.

DFSMSrmm writes an activity record for data set changes only when a change is identified in the ACTD\_CHANGE section of the record. During vital record processing, if an ACTIVITY file is allocated, DFSMSrmm writes information about changes made to the matching vital record specification, the vital record status, and the retention date to the ACTIVITY file.

You can view the ACTIVITY file online. To print the ACTIVITY file, use a product such as DFSORT or DFSORT’s ICETOOL to selectively format and print fields.

DFSMSrmm provides a sample job EDGJACTP in SAMPLIB that shows how to selectively format and print fields. The sample EDGJACTP produces reports in pairs: a report containing detailed information and a summary report that is broken down by category and a count within each category. The reports focus on the different types of changes that DFSMSrmm makes to data set records during inventory management. For example, DFSMSrmm can change the vital record

specification or vital record specification subchain that retains the data sets. You can use these reports to help you understand the updates that DFSMSrmm is making to data sets that are based on matching vital record specifications.

## VRS Report

The VRS report, as shown in Figure 3 on page 9, provides information about the retention status of a data set. The report includes a data set when the status of the data set changes between being retained by a vital record specification and not retained by a vital record specification. Use the VRS report to determine changes in the retention status of a data set.

The data columns in the VRS report provide the following information.

### **DSNAME**

The name of the data set that has had a change in status as a result of running vital record processing.

### **JOBNAME**

The jobname associated with the data set.

### **VOLSER**

The volume serial number of the volume on which the data set resides.

### **O-ST**

The old vital record status. Y is the VRS retained status. N is the Not VRS retained status.

### **N-ST**

The new vital record status. Y is the VRS retained status. N is the Not VRS retained status.

### **RSN**

The reason the data set is no longer retained by a vital record specification. See "ACTIVITY File Record Macro: EDGACTRC" on page 207 which provides the drop reasons.

### **PRIMARY VRS**

The name from the first vital record specification in the matching vital record specification chain.

### **JOB MASK**

The jobname from the first vital record specification in the matching vital record specification chain.

### **TYPE**

The type of the vital record specification matched to the data set. See "ACTIVITY File Record Macro: EDGACTRC" on page 207 for the vital record specification types.

```

1Data Sets Changed VRS Status      05/31/00      02:02:20      - 1 -
Status Change and Drop Reason:  RETAINED

DSNAME-----          JOBNAME  VOLSER  O-ST  N-ST  RSN  PRIMARY VRS-----          JOB MASK  TYPE
RMMUSER.D001          -----  A00001  N    Y    ---  RMMUSER.D001          -----          D
RMMUSER.D002          -----  A00004  N    Y    ---  RMMUSER.D002          -----          D
RMMUSER.D002          -----  A00005  N    Y    ---  RMMUSER.D002          -----          D
RMMUSER.D003          -----  A00007  N    Y    ---  RMMUSER.D003          -----          D
RMMUSER.D003          -----  A00008  N    Y    ---  RMMUSER.D003          -----          D

2Data Sets Changed VRS Status      05/31/00      02:02:20      - 3 -
Status Change and Drop Reason:  DROPPED  DAYS

DSNAME-----          JOBNAME  VOLSER  O-ST  N-ST  RSN  PRIMARY VRS-----          JOB MASK  TYPE
DSMASTER.DS2          JNAME0D1 A00021  Y    N    D    DSM+.DS2             -----          D
DSMASTER.DS2          JNAME0D1 A00022  Y    N    D    DSM+.DS2             -----          D
DSMASTER.DS3          JNAME0D2 A00022  Y    N    D    DSM+.DS3             -----          D
DSMASTER.DS3          JNAME0D2 A00023  Y    N    D    DSM+.DS3             -----          D
DSMASTER.DS4          A00024  Y    N    D    DSM+.DS4             -----          D
DSMASTER.DS4          A00024  Y    N    D    DSM+.DS4             -----          D

```

Figure 3. Sample VRS Report

## VRSS Report

The VRSS report as, shown in Figure 4, summarizes details from the VRS report. The VRSS report provides a summary of all the data sets that have changed during the current run of inventory management. You can use the report to determine if any unusual activity has taken place during vital records processing. For example, the report might show a significant number of data sets that were dropped from retention by vital record specifications. You might want to check that the vital record specifications you have defined are defined correctly.

The VRSS report lists the number of data sets that are in each vital record specification status category.

The data columns in the VRSS report provide the following information.

### Status Change

The new vital record status. The status is DROPPED or RETAINED.

### Drop Reason

The reason that a vital record specification no longer retains a data set. See “ACTIVITY File Record Macro: EDGACTRC” on page 207 for the drop reasons.

### COUNT

The number of data sets with the same status and drop reason.

```

1Data Set VRS status change summary      05/31/00      02:02:20      - 1 -

Status Change  Drop Reason  COUNT
-----
DROPPED       DAYS        6
RETAINED      -----        5

```

Figure 4. Sample VRSS Report

## RETDATE Report

The RETDATE report shown in Figure 5 on page 11 provides information about the changes to the retention date of a data set that occur when you run vital record processing. DFSMSrmm changes these dates when you run vital record processing and DFSMSrmm has changed information about the data set or is using a new vital record specification in a vital record specification chain.

You can use the VRS report described in “VRS Report” on page 8 to determine the old and new retention dates for an updated data set. You can use the RETDATE report to see how DFSMSrmm has applied vital record specifications you have defined.

The data columns in the RETDATE report provide the following information:

**DSNAME**

The name of the data set information updated by vital record processing.

**JOBNAME**

The jobname associated with the data set.

**VOLSER**

The volume serial number of the volume on which the data set resides.

**PREVIOUS**

The old retention date for the data set.

**NEW DATE**

The new retention date for the data set.

**PRIMARY VRS**

The name from the first vital record specification in the matching vital record specification chain.

**JOB MASK**

The jobname from the first vital record specification in the matching vital record specification chain.

**TYPE**

The type of the vital record specification matched to the data set. See “ACTIVITY File Record Macro: EDGACTRC” on page 207 for the vital record specification types.

**SUBCHAIN**

This is the name of the vital record specification in the primary vital record specification chain that DFSMSrmm is currently using to retain the data set.

1Data Sets Changed Retention Date		05/31/00	02:02:22	- 1 -					
New Retention Date: CYCL/00001									
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN	
RMMUSER.D003		A00007		CYCL/00001	RMMUSER.D003		D	N1D003	
RMMUSER.D005		A00012		CYCL/00001	RMMUSER.D005		D		
RMMUSER.D005		A00013		CYCL/00001	RMMUSER.D005		D		
RMMUSER.D006		A00015		CYCL/00001	D006		S		
RMMUSER.D007		A00017		CYCL/00001	D007		V		
RMMUSER.D008		A00020		CYCL/00001	RMMUSER.D008		M		
RMMUSER.D009		A00025		CYCL/00001	RMMUSER.D009		M		
RMMUSER.D011		A00030		CYCL/00001	A00030		V	N1A00030	
RMMUSER.D011		A00031		CYCL/00001	A00031		V	N1A00031	
1Data Sets Changed Retention Date		05/31/00	02:02:22	- 2 -					
New Retention Date: CYCL/00002									
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN	
RMMUSER.D008		A00019		CYCL/00002	RMMUSER.D008		M		
RMMUSER.D009		A00023		CYCL/00002	RMMUSER.D009		M		
RMMUSER.D012		A00034		CYCL/00002	A00034		V	N1D012	
RMMUSER.D012		A00035		CYCL/00002	A00035		V	N1D012	
RMMUSER.D008		A00019		CYCL/00002	RMMUSER.D008		M		
RMMUSER.D009		A00023		CYCL/00002	RMMUSER.D009		M		
RMMUSER.D012		A00034		CYCL/00002	A00034		V	N1D012	
RMMUSER.D012		A00035		CYCL/00002	A00035		V	N1D012	
RMMUSER.D008		A00019		CYCL/00002	RMMUSER.D008		M		
RMMUSER.D009		A00023		CYCL/00002	RMMUSER.D009		M		
RMMUSER.D012		A00034		CYCL/00002	A00034		V	N1D012	
RMMUSER.D012		A00035		CYCL/00002	A00035		V	N1D012	
1Data Sets Changed Retention Date		05/31/00	02:02:22	- 3 -					
New Retention Date: 1999/099									
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN	
RMMUSER.D003		A00008		1999/099	RMMUSER.D003		D		
RMMUSER.D004		A00009		1999/099	RMMUSER.D004		D	D004	
RMMUSER.D009		A00022		1999/099	RMMUSER.D009		M		
RMMUSER.D009		A00024		1999/099	RMMUSER.D009		M		
RMMUSER.D010		A00027		1999/099	RMMUSER.D010		M		
RMMUSER.D010		A00028		1999/099	RMMUSER.D010		M		
RMMUSER.D003		A00008		1999/099	RMMUSER.D003		D		
RMMUSER.D004		A00009		1999/099	RMMUSER.D004		D	D004	
RMMUSER.D009		A00022		1999/099	RMMUSER.D009		M		
RMMUSER.D009		A00024		1999/099	RMMUSER.D009		M		
RMMUSER.D010		A00027		1999/099	RMMUSER.D010		M		
RMMUSER.D010		A00028		1999/099	RMMUSER.D010		M		
1Data Sets Changed Retention Date		05/31/00	02:02:22	- 4 -					
New Retention Date: 1999/100									
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN	
RMMUSER.D001		A00001		1999/100	RMMUSER.D001		D		
RMMUSER.D002		A00004		1999/100	RMMUSER.D002		D		
RMMUSER.D002		A00005		1999/100	RMMUSER.D002		D		
RMMUSER.D010		A00029		1999/100	RMMUSER.D010		M		
RMMUSER.D001		A00001		1999/100	RMMUSER.D001		D		
RMMUSER.D002		A00004		1999/100	RMMUSER.D002		D		
RMMUSER.D002		A00005		1999/100	RMMUSER.D002		D		
RMMUSER.D010		A00029		1999/100	RMMUSER.D010		M		
1Data Sets Changed Retention Date		05/31/00	02:02:22	- 5 -					
New Retention Date: 1999/335									
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN	
RMMUSER.D003		A00008		1999/335	RMMUSER.D003		D		
RMMUSER.D004		A00009		1999/335	RMMUSER.D004		D	D004	
RMMUSER.D009		A00022		1999/335	RMMUSER.D009		M		
RMMUSER.D009		A00024		1999/335	RMMUSER.D009		M		
RMMUSER.D010		A00027		1999/335	RMMUSER.D010		M		
RMMUSER.D010		A00028		1999/335	RMMUSER.D010		M		
1Data Sets Changed Retention Date		05/31/00	02:02:22	- 6 -					
New Retention Date: 1999/336									
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN	
RMMUSER.D001		A00001		1999/336	RMMUSER.D001		D		
RMMUSER.D002		A00004		1999/336	RMMUSER.D002		D		
RMMUSER.D002		A00005		1999/336	RMMUSER.D002		D		
RMMUSER.D010		A00029		1999/336	RMMUSER.D010		M		

Figure 5. Sample RETDATE Report

## RETDS Report

The RETDS report as shown in Figure 6 on page 12, summarizes details from the RETDATE report. The RETDS report provides a summary of the data set retention dates that have changed during vital record processing. The RETDS lists the retention dates that have been used to update data set information and the number of data sets that have the same retention date value. The report consists of one line for each retention date.

The data columns in the RETDS report provide the following information.

**New Retention Date**

A new retention date that was updated for data sets.

**COUNT**

The number of data sets with the same retention date value.

```
1Summary of new Data Set retention dates      05/31/00      02:02:23      - 1 -

New Retention Date      COUNT
-----
CYCL/00001              33
CYCL/00002              12
1999/099                12
1999/100                8
1999/335                6
1999/336                4
```

Figure 6. Sample RETDS Report

## MATCHVRS Report

The MATCHVRS report as shown in Figure 7 on page 13, provides information about the vital record specifications that match to data sets updated when you run vital record processing. The data sets are added to the report because DFSMSrmm has matched the data set to a different primary or secondary vital record specification. The report provides change information and does not necessarily provide information on the retention of the data set.

The data columns in the MATCHVRS report provide the following information:

**DSNAME**

The name of the data set affected by vital record processing.

**JOBNAME**

The jobname associated with the data set.

**VOLSER**

The volume serial number of the volume on which the data set resides.

**O-ST**

The old vital record status. Y is the VRS retained status. N is the Not VRS retained status.

**N-ST**

The new vital record status. Y is the VRS retained status. N is the Not VRS retained status.

**DROPRSN**

The reason the vital record specification no longer retains the data set. See "ACTIVITY File Record Macro: EDGACTRC" on page 207 for the reason codes.

**OLD PRIMARY VRS**

The vital record specification that was previously used to retain the data set.

**JOB MASK**

The jobname from the first vital record specification in the matching vital record specification chain.

## TYPE

The vital record specification types. See "ACTIVITY File Record Macro: EDGACTRC" on page 207 for the vital record specification types.

## 2nd. VRS

This is the name of the first VRS in the secondary VRS chain that DFSMSrmm matches to a data set.

## 2nd. JOB

This is the jobname of the first VRS in the secondary VRS chain that DFSMSrmm matches to a data set.

```

IData Sets Matching to different VRS      05/31/00      02:02:25      - 1 -
NEW PRIMARY VRS: DRMMUSER.D001
-----
DSNAME                JOBNAME      VOLSER      0-ST      N-ST      DROPRSN      OLD PRIMARY VRS      JOB MASK      TYPE      2nd. VRS      2nd. JOB
-----
RMMUSER.D001          A00001      N           Y           N           D
RMMUSER.D001          A00002      N           N           N           D
RMMUSER.D001          A00001      N           Y           N           D
RMMUSER.D001          A00002      N           N           N           D
RMMUSER.D001          A00001      N           Y           N           D
RMMUSER.D001          A00002      N           N           N           D
IData Sets Matching to different VRS      05/31/00      02:02:25      - 2 -
NEW PRIMARY VRS: DRMMUSER.D002
-----
DSNAME                JOBNAME      VOLSER      0-ST      N-ST      DROPRSN      OLD PRIMARY VRS      JOB MASK      TYPE      2nd. VRS      2nd. JOB
-----
RMMUSER.D002          A00003      N           N           N           C
RMMUSER.D002          A00004      N           Y           N           C
RMMUSER.D002          A00005      N           Y           N           C
RMMUSER.D002          A00003      N           N           N           C
RMMUSER.D002          A00004      N           Y           N           C
RMMUSER.D002          A00005      N           Y           N           C
RMMUSER.D002          A00003      N           N           N           C
RMMUSER.D002          A00004      N           Y           N           C
RMMUSER.D002          A00005      N           Y           N           C
IData Sets Matching to different VRS      05/31/00      02:02:25      - 3 -
NEW PRIMARY VRS: DRMMUSER.D003
-----
DSNAME                JOBNAME      VOLSER      0-ST      N-ST      DROPRSN      OLD PRIMARY VRS      JOB MASK      TYPE      2nd. VRS      2nd. JOB
-----
RMMUSER.D003          A00006      N           N           N           C
RMMUSER.D003          A00007      N           Y           N           C
RMMUSER.D003          A00008      N           Y           N           C
RMMUSER.D003          A00006      N           N           N           C
RMMUSER.D003          A00007      N           Y           N           C
RMMUSER.D003          A00008      N           Y           N           C
RMMUSER.D003          A00006      N           N           N           C
RMMUSER.D003          A00007      N           Y           N           C
RMMUSER.D003          A00008      N           Y           N           C
IData Sets Matching to different VRS      05/31/00      02:02:25      - 4 -
NEW PRIMARY VRS: DRMMUSER.D004
-----
DSNAME                JOBNAME      VOLSER      0-ST      N-ST      DROPRSN      OLD PRIMARY VRS      JOB MASK      TYPE      2nd. VRS      2nd. JOB
-----
RMMUSER.D004          A00009      N           Y           N           B
RMMUSER.D004          A00009      N           Y           N           B
RMMUSER.D004          A00009      N           Y           N           B
IData Sets Matching to different VRS      05/31/00      02:02:25      - 5 -
NEW PRIMARY VRS: DRMMUSER.D005
-----
DSNAME                JOBNAME      VOLSER      0-ST      N-ST      DROPRSN      OLD PRIMARY VRS      JOB MASK      TYPE      2nd. VRS      2nd. JOB
-----
RMMUSER.D005          A00010      N           N           N           B
RMMUSER.D005          A00011      N           N           N           B
RMMUSER.D005          A00012      N           Y           N           B
RMMUSER.D005          A00013      N           Y           N           B
RMMUSER.D005          A00010      N           N           N           B
RMMUSER.D005          A00011      N           N           N           B
RMMUSER.D005          A00012      N           Y           N           B
RMMUSER.D005          A00013      N           Y           N           B
RMMUSER.D005          A00010      N           N           N           B
RMMUSER.D005          A00011      N           N           N           B
RMMUSER.D005          A00012      N           Y           N           B
RMMUSER.D005          A00013      N           Y           N           B

```

Figure 7. Sample MATCHVRS Report

## MATCHVRS Report

The MATCHVRS report, as shown in Figure 8 on page 14, summarizes details from the MATCHVRS report. The report provides the vital record specification name and the number that are newly matched by the vital record specification. Use this report to help you determine if any new vital record specifications now match to your data sets.

The data columns in the MATCHVS report provide the following information.

**New Primary VRS**

The name from the first vital record specification in the matching vital record specification chain.

**Jobname mask**

The jobname from the first vital record specification in the matching vital record specification chain.

**Match Type**

The type of the vital record specification matched to the data set. See "ACTIVITY File Record Macro: EDGACTRC" on page 207 for the vital record specification types.

**COUNT**

The number of data sets with the same matching primary VRS.

```

1Summary of new matching VRSs      05/31/00      02:02:28      - 1 -

```

New Primary VRS	Jobname mask	Match Type	COUNT
A00030		V	3
A00031		V	3
A00032		V	3
A00033		V	3
A00034		V	3
A00035		V	3
A00036		V	3
D006		S	6
D007		V	6
RMMUSER.D001		D	6
RMMUSER.D002		D	9
RMMUSER.D003		D	9
RMMUSER.D004		D	3
RMMUSER.D005		D	12
RMMUSER.D008		M	9
RMMUSER.D009		M	15
RMMUSER.D010		M	12

Figure 8. Sample MATCHVS Report

**SUBCHN Report**

During vital record processing, DFSMSrmm processes chains of vital record specifications if you have defined them. The SUBCHN report, as shown in Figure 9 on page 15, shows the vital record specification within a vital record specification chain that now matches to a data set. Data sets are listed if they reach a new subchain during the current run of vital record processing.

The data columns in the SUBCHN report provide the following information:

**DSNAME**

The name of the data set that has had a change in status as a result of running vital record processing.

**JOBNAME**

The jobname associated with the data set.

**VOLSER**

The volume serial number of the volume on which the data set resides.



## PRIMARY VRS

The name from the first vital record specification in the matching vital record specification chain.

## JOB MASK

The jobname from the first vital record specification in the matching vital record specification chain.

## TYPE

The type of the vital record specification matched to the data set. See "ACTIVITY File Record Macro: EDGACTRC" on page 207 for the vital record specification types.

## 2nd.VRS

The name of the first VRS in the secondary VRS chain that DFSMSrmm matches to a data set.

## JOB

The job name of the first VRS in the secondary VRS chain that DFSMSrmm matches to a data set.

## SUBCHAIN DATE

The name of the primary vital record specification subchain retaining the data set and the date it started to retain the data set.

## 2nd.SUBC DATE

The name of the secondary vital record specification subchain retaining the data set and the date it started to retain the data set.

I	Data Sets Changed VRS Subchain	05/31/00	02:02:30	- 1 -						
	NEW SUBCHAIN AND DATE: D004 1999/098									
	DSNAME		JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
	RMMUSER.D004			A00009	RMMUSER.D004		D			
	RMMUSER.D004			A00009	RMMUSER.D004		D			
I	Data Sets Changed VRS Subchain	05/31/00	02:02:30	- 2 -						
	NEW SUBCHAIN AND DATE: D004 1999/334									
	DSNAME		JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
	RMMUSER.D004			A00009	RMMUSER.D004		D			
I	Data Sets Changed VRS Subchain	05/31/00	02:02:30	- 3 -						
	NEW SUBCHAIN AND DATE: N1A000301999/098									
	DSNAME		JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
	RMMUSER.D011			A00030	A00030		V			
	RMMUSER.D011			A00030	A00030		V			
I	Data Sets Changed VRS Subchain	05/31/00	02:02:30	- 4 -						
	NEW SUBCHAIN AND DATE: N1A000301999/334									
	DSNAME		JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
	RMMUSER.D011			A00030	A00030		V			
I	Data Sets Changed VRS Subchain	05/31/00	02:02:30	- 5 -						
	NEW SUBCHAIN AND DATE: N1A000311999/098									
	DSNAME		JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
	RMMUSER.D011			A00031	A00031		V			
	RMMUSER.D011			A00031	A00031		V			
I	Data Sets Changed VRS Subchain	05/31/00	02:02:30	- 6 -						
	NEW SUBCHAIN AND DATE: N1A000311999/334									
	DSNAME		JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
	RMMUSER.D011			A00031	A00031		V			
I	Data Sets Changed VRS Subchain	05/31/00	02:02:30	- 7 -						
	NEW SUBCHAIN AND DATE: N1D003 1999/098									
	DSNAME		JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
	RMMUSER.D003			A00007	RMMUSER.D003		D			
	RMMUSER.D003			A00007	RMMUSER.D003		D			

Figure 9. Sample SUBCHN Report

## SUBCHNS Report

The SUBCHNS report, as shown in Figure 10, summarizes details from the SUBCHN report. You can use the SUBCHNS report to see the vital record specification chains that DFSMSrmm is using to retain data sets.

The data columns in the SUBCHNS report provide the following information.

### New Subchain

The primary vital record specification, the secondary vital record specification subchain names, and the dates the vital record specifications started to retain the data set.

### COUNT

The number of data sets with the same new subchain.

```
1Summary of new Data Set subchains      05/31/00      02:02:31      - 1 -
```

New Subchain	COUNT
D004 1999/098	2
D004 1999/334	1
N1A000301999/098	2
N1A000301999/334	1
N1A000311999/098	2
N1A000311999/334	1
N1D003 1999/098	2
N1D003 1999/334	1
N1D012 1999/098	4
N1D012 1999/334	2

Figure 10. Sample SUBCHNS Report

## JCL for EDGJACTP

To create a report, use the JCL as shown in Figure 11 on page 17.

```

/**EDGJACTP JOB <JOB STATEMENT PARAMETERS>
/**
/*******
/** OS/390 DFSMSrmm V2R10 *
/** *
/** PROPRIETARY V3 STATEMENT *
/** LICENSED MATERIALS - PROPERTY OF IBM *
/** "RESTRICTED MATERIALS OF IBM" *
/** 5647-A01 *
/** (C) COPYRIGHT 1993,2000 IBM CORP. *
/** STATUS = HDZ11F0 *
/** END PROPRIETARY V3 STATEMENT *
/*******
/**
/** RMM report on ACTIVITY file contents
/** -----
/**
/** INPUT: ACTIVITY DD Statement - current RMM activity file
/** OUTPUT:
/** RUNINFO DD Statement - Controlling options and parameters
/** VRS DD Statement - data sets with changed V/R status
/** VRSS DD Statement - summary by status
/** RETD DD Statement - data sets with new retention date
/** RETDS DD Statement - summary by new date
/** MATCHVRS DD Statement - data sets with new matching VRS
/** MATCHVS DD Statement - summary by new matching VRS
/** SUBCHN DD Statement - data sets retained by new part of chain
/** SUBCHNS DD Statement - summary by new retaining subchain
/**
/** DEPENDANCY: DFSORT R14, for SYMNames support
/**
/** Change History:
/** $S5=OW24798,130,961002,MWW: Created for Audit Phase 1 SPE
/** $K1=K140934,140,970408,BDG: Corrected BREAK for drop reason @K1A
/** $S7=OW30969,140,971217,AE : VRS Enhancements @S7A
/** $LF=RMM210 ,210,990805,GW : RETAINBY and MOVEBY @LFA
/** $LG=RMM210 ,210,990924,AH : DFSORT Symbols @LGA
/** $K2=K160798,210,991125,CHK: Correct the SYMNames library name @K2A
/** $01=OW45053,210,000616,MWW: Clean up symbols/ comment SYMNOUT @01A
/**
/*******

```

Figure 11. JCL for EDGJACTP (Part 1 of 7)

```

//CLEAN EXEC PGM=IDCAMS
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
DELETE 'RMM.REPORT.RUNINFO'
DELETE 'RMM.REPORT.VRS'
DELETE 'RMM.REPORT.VRSS'
DELETE 'RMM.REPORT.RETDATE'
DELETE 'RMM.REPORT.RETDS'
DELETE 'RMM.REPORT.MATCHVRS'
DELETE 'RMM.REPORT.MATCHVS'
DELETE 'RMM.REPORT.SUBCHN'
DELETE 'RMM.REPORT.SUBCHNS'
//*****
//STEP1 EXEC PGM=ICETOOL,REGION=5M
//TOOLMSG DD SYSOUT=* ICETOOL MESSAGES
//DFSMSG DD SYSOUT=* DFSORT MESSAGES
//*SYMNOUT DD SYSOUT=* @01C
//SYMNAMES DD DSN=SYS1.MACLIB(EDGACTSY),DISP=SHR @K2C
//TOOLIN DD * CONTROL STATEMENTS
COPY FROM(ACTIVITY) USING(VRST)
SORT FROM(VRST) TO(SRTDVRST) USING(SRTV)
SORT FROM(RETD) TO(SRTDRETD) USING(SRTD)
SORT FROM(MTCH) TO(SRTDMTCH) USING(SRTM)
SORT FROM(SUBC) TO(SRTDSUBC) USING(SRTC)
*
*
*
DISPLAY FROM(SRTDVRST) LIST(VRS) -
TITLE('Data Sets Changed VRS Status') DATE TIME PAGE -
BLANK -
BTITLE('Status Change and Drop Reason:') -
BREAK(ACTRC_OUTFIL_VITALANDDROP) -
HEADER('DSNAME') ON(ACTRC_DSN_DSNAME) -
HEADER('JOBNAME') ON(ACTRC_DSN_JOBNAME) -
HEADER('VOLSER') ON(ACTRC_DSN_VOL) -
HEADER('O-ST') ON(ACTRC_DSN_OLD_VITAL) -
HEADER('N-ST') ON(ACTRC_DSN_NEW_VITAL) -
HEADER('RSN') ON(ACTRC_DSN_DROP) -
HEADER('PRIMARY VRS') ON(ACTRC_DSN_NEW_MMASK) -
HEADER('JOB MASK') ON(ACTRC_DSN_NEW_MJOB) -
HEADER('TYPE') ON(ACTRC_DSN_NEW_MTYPE)
*
OCCUR FROM(SRTDVRST) LIST(VRSS) -
TITLE('Data Set VRS status change summary') -
DATE TIME PAGE -
BLANK -
HEADER('Status Change') ON(ACTRC_OUTFIL_VITAL) -
HEADER('Drop Reason') ON(ACTRC_OUTFIL_DROP) -
HEADER('COUNT') ON(VALCNT)
*

```

Figure 11. JCL for EDGJACTP (Part 2 of 7)

```

*
DISPLAY FROM(SRTDRETD) LIST(RETDATE) -
  TITLE('Data Sets Changed Retention Date') DATE TIME PAGE -
  BLANK -
  BTITLE('New Retention Date:') BREAK(ACTRC_DSN_NEW_RETDATE) -
  HEADER('DSNAME')          ON(ACTRC_DSN_DSNAME) -
  HEADER('JOBNAME')         ON(ACTRC_DSN_JOBNAME) -
  HEADER('VOLSER')          ON(ACTRC_DSN_VOL) -
  HEADER('PREVIOUS')        ON(ACTRC_DSN_OLD_RETDATE) -
  HEADER('NEW DATE')         ON(ACTRC_DSN_NEW_RETDATE) -
  HEADER('PRIMARY VRS')     ON(ACTRC_DSN_NEW_MMASK) -
  HEADER('JOB MASK')         ON(ACTRC_DSN_NEW_MJOB) -
  HEADER('TYPE')             ON(ACTRC_DSN_NEW_MTYPE) -
  HEADER('SUBCHAIN')        ON(ACTRC_DSN_NEW_MNAME)
*
OCCUR FROM(SRTDRETD) LIST(RETDS) -
  TITLE('Summary of new Data Set retention dates') -
  DATE TIME PAGE -
  BLANK -
  HEADER('New Retention Date') ON(ACTRC_DSN_NEW_RETDATE) -
  HEADER('COUNT') ON(VALCNT)
*
*
DISPLAY FROM(SRTDMTCH) LIST(MATCHVRS) -
  TITLE('Data Sets Matching to different VRS') DATE TIME PAGE -
  BLANK -
  BTITLE('NEW PRIMARY VRS:') BREAK(ACTRC_DSN_NEW_VRSS) -
  HEADER('DSNAME')          ON(ACTRC_DSN_DSNAME) -
  HEADER('JOBNAME')         ON(ACTRC_DSN_JOBNAME) -
  HEADER('VOLSER')          ON(ACTRC_DSN_VOL) -
  HEADER('O-ST')             ON(ACTRC_DSN_OLD_VITAL) -
  HEADER('N-ST')             ON(ACTRC_DSN_NEW_VITAL) -
  HEADER('DROPRSN')         ON(ACTRC_DSN_DROP) -
  HEADER('OLD PRIMARY VRS') ON(ACTRC_DSN_OLD_MMASK) -
  HEADER('JOB MASK')         ON(ACTRC_DSN_OLD_MJOB) -
  HEADER('TYPE')             ON(ACTRC_DSN_OLD_MTYPE) -
  HEADER('2nd. VRS')         ON(ACTRC_DSN_OLD_M2MASK) -
  HEADER('2nd. JOB')         ON(ACTRC_DSN_OLD_M2JOB)
*
OCCUR FROM(SRTDMTCH) LIST(MATCHVRS) -
  TITLE('Summary of new matching VRSs') -
  DATE TIME PAGE -
  BLANK -
  HEADER('New Primary VRS') ON(ACTRC_DSN_NEW_MMASK) -
  HEADER('Jobname mask')   ON(ACTRC_DSN_NEW_MJOB) -
  HEADER('Match Type')     ON(ACTRC_DSN_NEW_MTYPE) -
  HEADER('COUNT') ON(VALCNT)
*
*
DISPLAY FROM(SRTDSUBC) LIST(SUBCHN) -
  TITLE('Data Sets Changed VRS Subchain') DATE TIME PAGE -
  BLANK -
  BTITLE('NEW SUBCHAIN AND DATE:') BREAK(ACTRC_DSN_NEW_CHAINS) -
  HEADER('DSNAME')          ON(ACTRC_DSN_DSNAME) -
  HEADER('JOBNAME')         ON(ACTRC_DSN_JOBNAME) -
  HEADER('VOLSER')          ON(ACTRC_DSN_VOL) -
  HEADER('PRIMARY VRS')     ON(ACTRC_DSN_NEW_MMASK) -
  HEADER('JOB MASK')         ON(ACTRC_DSN_NEW_MJOB) -
  HEADER('TYPE')             ON(ACTRC_DSN_NEW_MTYPE) -
  HEADER('2nd.VRS JOB')     ON(ACTRC_DSN_NEW_M2MATCH) -
  HEADER('SUBCHAIN DATE     2nd.SUBC DATE') ON(ACTRC_DSN_OLD_CHAINS)

```

Figure 11. JCL for EDGJACTP (Part 3 of 7)

```

*
OCCUR FROM(SRTDSUBC) LIST(SUBCHNS) -
  TITLE('Summary of new Data Set subchains') -
  DATE TIME PAGE -
  BLANK -
  HEADER('New Subchain') ON(ACTRC_DSN_NEW_CHAINS) -
  HEADER('COUNT') ON(VALCNT)
*
//ACTIVITY DD DSN=RMM.ACTIVITY.FILE,DISP=SHR
//VRST DD DSN=&&TEMPV1;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//RETD DD DSN=&&TEMPD1;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//MTCH DD DSN=&&TEMPC1;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//SUBC DD DSN=&&TEMPC1;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//SRTDVRST DD DSN=&&TEMPV2;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//SRTDRETD DD DSN=&&TEMPD2;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//SRTDMTCH DD DSN=&&TEMPM2;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//SRTDSUBC DD DSN=&&TEMPC2;,SPACE=(CYL,(10,10),RLSE),UNIT=SYSALLDA
//VRSTCNTL DD *
OUTFIL FNAMES=RUNINFO,
  INCLUDE=(ACTRC_PRE_TYPE,EQ,ACTRC_PRE_TYPE_HDR),
  HEADER2=(1:'Run Control Information',2X,DATE,2X,TIME,2X,PAGE,/,
    1:'Run Date',
    12:'Date Used',
    23:'Run Time',
    32:'Options',
    72:'DATEFORM',
    81:'VRSJOBNAME',
    92:'VRSCHANGE',
    102:'CATRETPD',
    111:'VRSMIN Count',
    124:'VRSMIN Action',
    138:'VRSEL',
    144:'UNCATALOG',
    154:'TPRACF',
    161:'SYSID',
    170:'CATSYSID',
    179:'RETAINBY',
    188:'MOVEBY',/,
    1:10'-',
    12:10'-',
    23:8'-',
    32:33'-',
    72:8'-',
    81:10'-',
    92:9'-',
    102:8'-',
    111:12'-',
    124:13'-',
    138:5'-',
    144:9'-',
    154:6'-',
    161:8'-',
    170:8'-',
    179:8'-',
    188:8'-'),

```

Figure 11. JCL for EDGJACTP (Part 4 of 7)

```

OUTREC=(ACTRC_RDW,
        5:ACTRC_HDR_RUN_DATE,
        16:ACTRC_HDR_VERIFY_DATE,
        27:ACTRC_HDR_RUN_TIME,
        36:ACTRC_HDR_BACKUP,CHANGE=(6,ACTRC_YES,C'BACKUP',
                                   ACTRC_NO,C' '),X,
        ACTRC_HDR_DSTORE,CHANGE=(6,ACTRC_YES,C'DSTORE',
                                   ACTRC_NO,C' '),X,
        ACTRC_HDR_EXPROC,CHANGE=(6,ACTRC_YES,C'EXPROC',
                                   ACTRC_NO,C' '),X,
        ACTRC_HDR_RPTEXT,CHANGE=(6,ACTRC_YES,C'RPTEXT',
                                   ACTRC_NO,C' '),X,
        ACTRC_HDR_VRSEL,CHANGE=(5,ACTRC_YES,C'VRSEL',
                                   ACTRC_NO,C' '),X,
        ACTRC_HDR_DATE,CHANGE=(4,ACTRC_YES,C'DATE',
                                   ACTRC_NO,C' '),
        76:ACTRC_HDR_DATEFORM,CHANGE=(8,
                                   ACTRC_HDR_DATEFORM_AMERICAN,C'AMERICAN',
                                   ACTRC_HDR_DATEFORM_EUROPEAN,C'EUROPEAN',
                                   ACTRC_HDR_DATEFORM_ISO,C'ISO',
                                   ACTRC_HDR_DATEFORM_JULIAN,C'JULIAN'),X,
        85:ACTRC_HDR_VRSJOBNAME,
        96:ACTRC_HDR_VRSCHANGE,CHANGE=(6,
                                   ACTRC_HDR_VRSCHANGE_VERIFY,C'VERIFY',
                                   ACTRC_HDR_VRSCHANGE_INFO,C'INFO'), 96
        106:ACTRC_HDR_CATRETPD,
        115:ACTRC_HDR_VRSMIN_COUNT,
        128:ACTRC_HDR_VRSMIN_ACTION,CHANGE=(4,
                                   ACTRC_HDR_VRSMIN_ACTION_FAIL,C'FAIL',
                                   ACTRC_HDR_VRSMIN_ACTION_WARN,C'WARN',
                                   ACTRC_HDR_VRSMIN_ACTION_INFO,C'INFO'),
        142:ACTRC_HDR_OPT_VRSEL,CHANGE=(3,
                                   ACTRC_HDR_OPT_VRSEL_NEW,C'NEW',
                                   ACTRC_HDR_OPT_VRSEL_OLD,C'OLD',
                                   ACTRC_HDR_OPT_VRSEL_BLANK,C'OLD'),
        148:ACTRC_HDR_UNCATALOG,
        158:ACTRC_HDR_TPRACF,
        165:ACTRC_HDR_SYSID,
        174:ACTRC_HDR_CATSYSID,CHANGE=(8,
                                   ACTRC_HDR_CATSYSID_NOT_SET,C'NOT SET',
                                   ACTRC_HDR_CATSYSID_SET,C'SET',
                                   ACTRC_HDR_CATSYSID_SHARED,C'SHARED'),
        183:ACTRC_HDR_OPT_RETAINBY,CHANGE=(8,
                                   C' ',C' ',
                                   ACTRC_HDR_OPT_RETAINBY_VOLUME,C'VOLUME',
                                   ACTRC_HDR_OPT_RETAINBY_SET,C'SET'),
        192:ACTRC_HDR_OPT_MOVEBY,CHANGE=(8,
                                   C' ',C' ',
                                   ACTRC_HDR_OPT_MOVEBY_VOLUME,C'VOLUME',
                                   ACTRC_HDR_OPT_MOVEBY_SET,C'SET'))

```

Figure 11. JCL for EDGJACTP (Part 5 of 7)

```

OUTFIL FNames=VRST,
INCLUDE=(ACTRC_PRE_TYPE,EQ,ACTRC_PRE_TYPE_DSN,AND,
        ACTRC_DSN_CHNG_VRS,EQ,ACTRC_YES),
OUTREC=(ACTRC_RDW,
        ACTRC_PREFIX,
        ACTRC_DSN_DATA,
        ACTRC_DSN_VITAL,CHANGE=(9,
        ACTRC_DSN_VITAL_NY,ACTRC_DSN_VITAL_RETAIN,
        ACTRC_DSN_VITAL_YN,ACTRC_DSN_VITAL_DROPPED),
        ACTRC_DSN_DROP,CHANGE=(13,
        ACTRC_DSN_DROP_WHILECATALOG,C'WHILECATALOG',
        ACTRC_DSN_DROP_BLANK,C' ',
        ACTRC_DSN_DROP_UNTILEXPIRED,C'UNTILEXPIRED',
        ACTRC_DSN_DROP_CYCLES,C'CYCLES',
        ACTRC_DSN_DROP_DAYS,C'DAYS',
        ACTRC_DSN_DROP_LASTREF,C'LASTREFDAYS',
        ACTRC_DSN_DROP_EXTRADAYS,C'EXTRADAYS',
        ACTRC_DSN_DROP_BYDAYSCYCLE,C'BYDAYSCYCLE',
        ACTRC_DSN_DROP_NO_MATCH,C'NO MATCH',
        ACTRC_DSN_DROP_DUP_GDG,C'DUPL. GDG',
        ACTRC_DSN_DROP_VOL_RELEASED,C'VOL RELEASED'))

OUTFIL FNames=RETD,
INCLUDE=(ACTRC_PRE_TYPE,EQ,ACTRC_PRE_TYPE_DSN,AND,
        ACTRC_DSN_CHNG_RETDATE,EQ,ACTRC_YES)

OUTFIL FNames=MTCH,
INCLUDE=(ACTRC_PRE_TYPE,EQ,ACTRC_PRE_TYPE_DSN,AND,
        ACTRC_DSN_CHNG_MATCH,EQ,ACTRC_YES)

OUTFIL FNames=SUBC,
INCLUDE=(ACTRC_PRE_TYPE,EQ,ACTRC_PRE_TYPE_DSN,AND,
        ACTRC_DSN_CHNG_SUBCHAIN,EQ,ACTRC_YES)

```

Figure 11. JCL for EDGJACTP (Part 6 of 7)



```

        OPTION VLSHRT
//SRTVCNTL DD *
* Sort on status change fields
  SORT FIELDS=(ACTRC_DSN_OLD_VITAL,A,
              ACTRC_DSN_NEW_VITAL,A,
              ACTRC_DSN_DROP,A)
//SRTDCNTL DD *
* Sort on new retention date
  SORT FIELDS=(ACTRC_DSN_NEW_RETDATE,A)
//SRTMCNTL DD *      DFSORT STATEMENTS - SORT AND REFORMAT
* Sort on new matching VRS fields
  SORT FIELDS=(ACTRC_DSN_NEW_MTYPE,A,
              ACTRC_DSN_NEW_MMASK,A,
              ACTRC_DSN_NEW_MJOB,A)
//SRTCCNTL DD *      DFSORT STATEMENTS - SORT AND REFORMAT
* Sort on new subchain name and start date
  SORT FIELDS=(ACTRC_DSN_NEW_CHAINS,A)
/*
//*
//RUNINFO DD DSN=RMM.REPORT.RUNINFO,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(1,1),RLSE),UNIT=SYSALLDA
//VRS      DD DSN=RMM.REPORT.VRS,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA
//VRSS     DD DSN=RMM.REPORT.VRSS,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA
//RETDATE  DD DSN=RMM.REPORT.RETDATE,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA
//RETDS    DD DSN=RMM.REPORT.RETDS,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA
//MATCHVRS DD DSN=RMM.REPORT.MATCHVRS,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA
//MATCHVVS DD DSN=RMM.REPORT.MATCHVVS,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA
//SUBCHN   DD DSN=RMM.REPORT.SUBCHN,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA
//SUBCHNS  DD DSN=RMM.REPORT.SUBCHNS,DISP=(,CATLG,DELETE),
//          SPACE=(CYL,(9,9),RLSE),UNIT=SYSALLDA

```

Figure 11. JCL for EDGJACTP (Part 7 of 7)



---

## Chapter 3. Creating Reports with DFSMSrmm Utilities

The DFSMSrmm report utilities EDGRPTD and EDGAUD help you keep track of your removable media inventory and to help you monitor access to classified tape data. Table 5 shows information you can obtain using EDGRPTD and EDGAUD.

*Table 5. DFSMSrmm Report Utilities and Samples*

To Obtain	Use	Which Requires the
Inventory, movement, and scratch reports	EDGRPTD described on page 25	Extract data set
Audit reports and security reports using System Management Facility (SMF) records	EDGAUD described on page 35	SMF data set

You can write customized reports by using DFSORT's ICETOOL. For information on using DFSORT's ICETOOL, see "Chapter 5. Using DFSMSrmm with DFSORT" on page 75.

---

### Using EDGRPTD to Create Reports

The DFSMSrmm utility EDGRPTD produces reports from the extract data set created using the EDGHSKP utility. Run storage location management before you create the extract data set to ensure that the extract data set contains the most current information about volumes that should move within the library, between the library and storage locations, or among storage locations. Use EDGRPTD to create inventory reports, movement reports, and scratch list reports.

- Inventory reports for auditing the physical contents of the installation media library and storage locations. See "Using Inventory Reports" on page 29.
- Movement reports that list volumes to be moved from one location to another. Use these reports to make an inventory of your volumes and to identify volumes that need to be pulled and moved to other locations. See "Using Movement Reports" on page 31.
- Scratch list reports that list scratch volumes in your installation. You can list all scratch volumes and new scratch volumes. See "Using Scratch List Reports" on page 33.

EDGRPTD reads the volume records from the extract data set and uses DFSORT to order the records to produce the reports you request.

You do not need to provide DFSORT parameters or work data sets because EDGRPTD specifies the necessary parameters for DFSORT and requests dynamic allocation of work data sets. You can combine the production of scratch reports with movement reports and inventory reports in the same run of EDGRPTD.

## JCL for EDGRPTD

To create a report, submit a job with JCL as shown in Figure 12.

```
//D021906H JOB ('T,H,IOM,,',SYSPROG),'***IBMUSER***',
// MSGLEVEL=(1,1),MSGCLASS=H,CLASS=S,REGION=4096K,
// NOTIFY=D021906
//RPTD EXEC PGM=EDGRPTD,
// PARM='SEC('INTERNAL USE ONLY'),'DATEFORM(I),
// LINECOUNT(54)'
//REPTXT DD DISP=SHR,DSN=RMMTST.PR0914X.REPTXT
//SYSPRINT DD SYSOUT=*
//INSTVOL DD DISP=SHR,DSN=RMMTST.REPORT.INSTVOL
//INSTBIN DD DISP=SHR,DSN=RMMTST.REPORT.INSTBIN
//INSTOWN DD DISP=SHR,DSN=RMMTST.REPORT.INSTOWN
//TOSTRCK DD DISP=SHR,DSN=RMMTST.REPORT.TOSTRCK
//TOSTOWN DD DISP=SHR,DSN=RMMTST.REPORT.TOSTOWN
//FMSTBIN DD DISP=SHR,DSN=RMMTST.REPORT.FMSTBIN
//FMSTOWN DD DISP=SHR,DSN=RMMTST.REPORT.FMSTOWN
//RDYTOSCR DD DISP=SHR,DSN=RMMTST.REPORT.RDYTOSCR
//SYSOUT DD DISP=SHR,DSN=RMMTST.REPORT.DFSORT
//SCRDATE DD DSN=rmm.last.run.date,DISP=OLD
//SCRLIST DD DISP=(,CATLG),DSN=rmm.scratch.list,
// UNIT=SYSDA,SPACE=(TRK,(10,10)),LRECL=121,RECFM=VBA
//NEWSCR DD DISP=(,CATLG),DSN=rmm.new.scratch.list,
// UNIT=SYSDA,SPACE=(TRK,(10,10)),LRECL=121,RECFM=VBA
```

Figure 12. Example of JCL for EDGRPTD -Creating Inventory, Movement, and Scratch List Reports

Note that each DD statement is optional and need to be specified only for the reports you want.

### EXEC Parameters for EDGRPTD

Figure 13 shows the EXEC parameters for EDGRPTD.

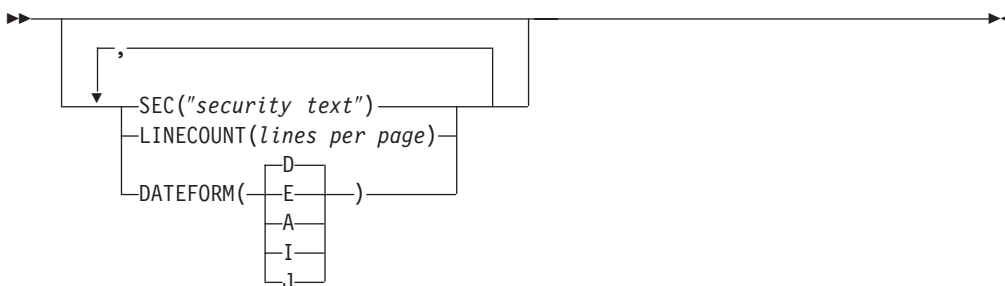


Figure 13. EDGRPTD EXEC Parameters

The EXEC parameters for EDGRPTD are:

#### DATEFORM(A|E||J|D)

Use the DATEFORM parameter to specify the format for date fields in the report. The DATEFORM parameter can be:

Value	Language	Format	Example
A	American	mm/dd/yyyy	12/15/2000
E	European	dd/mm/yyyy	15/12/2000

Value	Language	Format	Example
I	International Organization for Standardization (ISO)	yyyy/mm/dd	2000/12/15
J	Julian	yyyy/ddd	2000/350
D	Default	Installation default in EDGRMMxx	Initially set to Julian

### **LINECOUNT**(*lines per page*)

*Lines per page* specifies the page length. The default is 54 lines per page. Specify LINECOUNT to override the LINECOUNT value specified by the LINECOUNT operand of the EDGRMMxx parmlib member OPTION command. See *OS/390 DFSMSrmm Implementation and Customization Guide* for information about the LINECOUNT operand.

### **SEC**("security text")

Specify up to 32 characters of security heading text for the reports. If the text contains blanks or special characters, enclose it in double quotes when specifying blanks or special characters.

## **DD Statements for Input and Output**

The DD statements you code for input and output are:

### **REPTEXT**

REPTEXT is an input file that contains the DFSMSrmm extract data set used to create reports. REPTEXT is required.

### **SYSOUT**

SYSOUT is an output file used by the sort program. It contains information for sorting that is performed by EDGRPTD.

### **SYSPRINT**

SYSPRINT is an output file for the messages DFSMSrmm issues for EDGRPTD. SYSPRINT is required.

## **DD Statements for Inventory Reports**

The DD statements you can code for inventory reports are:

### **INSTVOL**

INSTVOL is an output file for the report. INSTVOL contains the inventory of volumes by location that is sorted by volume serial number.

### **INSTBIN**

INSTBIN is an output file for the report containing the inventory of volumes by location that is sorted by rack number or bin number. The storage location report is sorted by bin number. All other reports are sorted by rack number.

### **INSTOWN**

INSTOWN is an output file for the report containing the inventory of volumes by location that is sorted by owner.

## **DD Statements for Movement Reports**

The DD statements you can code for movement reports are:

### **RDYTOSCR**

RDYTOSCR is an output file for movement reports. It is sorted in ascending order. The rack report column contains either a bin or rack number. RDYTOSCR includes information about volumes to be moved from locations to home locations.

**Note:** DFSMSrmm excludes volumes listed in the Ready-To-Scratch report from either the TOSTRCK or FMSTBIN report.

### **TOSTRCK**

TOSTRCK is an output file for movement reports that are sorted by rack number. TOSTRCK includes information about:

- Volumes to be moved from SHELF to storage locations
- Volumes to be moved between system-managed libraries
- Volumes to be moved from system-managed libraries to storage locations

### **FMSTBIN**

FMSTBIN is an output file for movement reports that are sorted by bin number. FMSTBIN includes about:

- Volumes to be moved between storage locations
- Volumes to be moved from storage locations to SHELF
- Volumes to be moved from storage locations to system-managed tape libraries

### **TOSTOWN**

TOSTOWN is an output file for movement reports that are sorted by owner. TOSTOWN includes information about:

- Volumes to be moved from SHELF to storage location
- Volumes to be moved from system-managed libraries to storage locations
- Volumes to be moved between system-managed libraries

### **FMSTOWN**

FMSTOWN is an output file for movement reports that are sorted by owner. FMSTOWN includes information about:

- Volumes to be moved from storage locations to SHELF
- Volumes to be moved from storage locations to system-managed libraries
- Volumes to be moved between storage locations

## **DD Statements for Scratch List Reports**

The DD statements you can code for scratch list reports are:

### **NEWSCR**

NEWSCR is the output file for the listing of all scratch volumes returned to scratch status since the last scratch list was produced. DFSMSrmm produces the NEWSR file when there is a valid date and time in the SCRDATE file or the SCRDATE file contains no record.

### **SCRDATE**

This file is used to produce the scratch list report. Each time a scratch list report is produced, DFSMSrmm updates the SCRDATE file with the highest scratch date and time for a volume. DFSMSrmm uses the date and time to determine which volumes to include in the new scratch list report. DFSMSrmm includes all scratch volumes with a newer assigned date and time in the new scratch listings. You can edit the SCRDATE file, which is a single record of LRECL 80 that contains a 10-character date and an eight-character time in external format. The date format must be the same format you specified for EDGRPTD. DFSMSrmm produces a new scratch list report only if there is a valid date or time for a volume. If there is no date or time, or the date is not valid, DFSMSrmm does not produce a new scratch list but produces a full scratch listing only in the SCRLIST DD. If the SCRDATE file is empty, the NEWSR and SCRLIST reports are identical, and DFSMSrmm writes the highest scratch date and time to the SCRDATE file.

Here is an example of the 80 byte input record.

```
01/12/200023:01:00
```

This example uses American date format. The date is 10 characters long and must start in column 1. The time is 8 characters and starts in column 11. The SCRDATE file can be a new data set or an existing data set. Do not specify the date and time in the JCL using DD \* because EDGRPTD updates the file with the highest scratch date and time.

The SCRLIST DD can be in any format, even a partitioned data set (PDS) member. The SCRDATE DD must be preallocated with any disposition.

### **SCRLIST**

Output file for the full scratch list report.

## **Using Inventory Reports**

You can use inventory reports for performing audits of your library and storage locations. To obtain the most up-to-date inventory report, move all volumes that are in transit and confirm all moves as completed before producing the extract data set from which you produce audit reports.

Non-shelf-managed locations do not have bin numbers. Inventory reports list a bin number column, leaving the bin number field blank.

You can use the inventory reports to track logical volumes. DFSMSrmm lists all the logical and stacked volumes in the library. When you request an inventory of a VTS location, DFSMSrmm lists all the logical volumes in the library. For exported logical volumes, DFSMSrmm lists the stacked volume in the report rather than the exported logical volume.

DFSMSrmm produces inventory reports in INSTVOL, INSTBIN, INSTOWN output files, as described in “DD Statements for Inventory Reports” on page 27. Each output file can contain multiple reports.

DFSMSrmm produces a separate report for each location where volumes reside. The reports, as shown in Figure 14 on page 30, are composed of repeated data columns. The data columns are:

### **VOLUME**

The volume serial number

### **RACK**

The rack number and external volume serial number

### **BIN**

The bin number in which the volume resides

### **OWNER**

The owner of the volume

### **MEDIANAME**

The media name or type of media of the volume

**T** The volume in-transit status can be one of the following:

**N** The volume is not in transit or waiting to be moved so you should expect to find the volume in the location identified by the inventory report.

- I The volume is moving to the listed shelf location. DFSMSrmm lists the volume in the report for the current location of the volume, as well as the target location.
- O The volume is moving from the listed shelf location. DFSMSrmm lists the volume in the report for the current location of the volume, as well as the target location.

Because volumes that are in transit can appear in multiple reports, you must determine the location of those volumes based on your installation's movement process.

Figure 14 is an example of an inventory report created using EDGRPTD. The example shows the inventory for the DFSMSrmm built-in storage locations LOCAL, DISTANT, and REMOTE; the installation-defined storage location named DPBINS, and the location SHELF. See "Using Movement Reports" on page 31 for information about obtaining movement information.

```

1                               IBM INTERNAL USE

REMOVABLE MEDIA MANAGER          INVENTORY OF VOLUMES IN LOCATION LOCAL          PAGE          1
5647-A01 (C) Copyright IBM Corp. 1993,2000          -----          DATE 2000/06/14

VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T
-----
A00231 A00231  18 D044412      N
A00400 A00400  14 D094746      N
A00469 A00469   2 D094746      N
A00472 A00472   7 D094746      N
A04061 A04061  13 LYONS        N
MAX006 MAX006  16 MAXWEAD     N
WK0005 WK0005   1 D094746      0
WK0009 WK0009   3 D094746      0

TOTAL NUMBER OF ENTRIES LISTED = 8

```

Figure 14. Volume Inventory Report (Part 1 of 5)

```

1                               IBM INTERNAL USE

REMOVABLE MEDIA MANAGER          INVENTORY OF VOLUMES IN LOCATION DISTANT          PAGE          1
5647-A01 (C) Copyright IBM Corp. 1993,2000          -----          DATE 2000/06/14

VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T
-----
A00003 A00003  13 @@@OWNER     0
A00471 A00471  20 D094746      I
A01128 A01128   4 D094746      0
A01658 A01658   5 D094746      0
A01668 A01668   6 D094746      0
A01669 A01669   7 D094746      0

TOTAL NUMBER OF ENTRIES LISTED = 6

```

Figure 14. Volume Inventory Report (Part 2 of 5)



```

1                                IBM INTERNAL USE

REMOVABLE MEDIA MANAGER          INVENTORY OF VOLUMES IN LOCATION REMOTE          PAGE          1
5647-A01 (C) Copyright IBM Corp. 1993,2000          -----          DATE 2000/06/14

VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T
-----
ABC012 D65B35  4 MAXWEAD  I
ABC013 D65B36  5 MAXWEAD  I
A00470 A00470  6 D094746  I
A01345 A01345  15 CRUMPM  0
FOK004 FOK004  1 MAXWEAL  0
FOK005 FOK005  7 MAXWEAL  0
RMX001 RMX001  2 MAXWEAD  0
RMX002 RMX002  9 MAXWEAD  I

```

TOTAL NUMBER OF ENTRIES LISTED = 8

Figure 14. Volume Inventory Report (Part 3 of 5)

```

1                                IBM INTERNAL USE

REMOVABLE MEDIA MANAGER          INVENTORY OF VOLUMES IN LOCATION DPBINS          PAGE          1
5647-A01 (C) Copyright IBM Corp. 1993,2000          -----          DATE 2000/06/14

VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T  VOLUME RACK  BIN  OWNER  MEDIUMNAME T
-----
RMX002 RMX002 ADPB01 MAXWEAD 3480 0
RMX003 RMX003 ABD002 MAXWEAD 3480 I
RMX004 RMX004 ABD003 MAXWEAD 3480 I
RMX005 RMX005 ABD004 MAXWEAD 3480 I
RMX006 RMX006 ABD009 MAXWEAD 3480 I
RMX007 RMX007 ABD012 MAXWEAD 3480 I

```

TOTAL NUMBER OF ENTRIES LISTED = 6

Figure 14. Volume Inventory Report (Part 4 of 5)

```

1                                IBM INTERNAL USE

REMOVABLE MEDIA MANAGER          INVENTORY OF VOLUMES IN LOCATION SHELF          PAGE          1
5647-A01 (C) Copyright IBM Corp. 1993,2000          -----          DATE 2000/06/14

VOLUME RACK  OWNER  MEDIUMNAME T  VOLUME RACK  OWNER  MEDIUMNAME T  VOLUME RACK  OWNER  MEDIUMNAME T
-----
ABC002 ABC002 MAXWEAD  N  ABC049 JS0205  N  A00047 A00047  N
ABC006 DAMW08  N  ABC050 JS0206  N  A00048 A00048  N
ABC007 DAMW09  N  ABC051 JS0207  N  A00049 A00049  N
ABC008 D65B31  N  ABC052 JS0208  N  A00051 A00051  N
ABC009 D65B32  N  ABC053 JS0209  N  A00052 A00052  N
ABC010 D65B33  N  ABC055 RMM000  N  A00053 A00053  N
ABC011 D65B34  N  ABC056 RMM001  N  A00054 A00054  N

```

TOTAL NUMBER OF ENTRIES LISTED = 7

Figure 14. Volume Inventory Report (Part 5 of 5)

## Using Movement Reports

DFSMSrmm produces movement reports in the output files named TOSTRCK, TOSTOWN, RDYTOSCR, FMSTBIN, and FMSTOWN as described in “DD Statements for Movement Reports” on page 27. Each output file can contain multiple reports with each report covering a specific pair of locations.

To ensure that the control data set reflects current information, confirm that you have moved the required volumes before creating the movement reports. Confirm

that you have moved the volumes by using the RMM CHANGEVOLUME subcommand with the CONFIRMMOVE operand or by using the DFSMSrmm ISPF dialog.

DFSMSrmm excludes volumes that are in a container from movement reports. DFSMSrmm lists the stacked volume instead.

You can use movement reports to identify volumes that need to be moved from one location to another. DFSMSrmm produces reports only if there are volumes to be moved. DFSMSrmm starts a new page and a report for each location and destination pair. Each report as shown in Figure 15 is composed of repeated data columns. The data columns are:

**BIN**

The bin number from which the volume is to be moved

**VOLUME**

The volume serial number

**RACK**

The rack number and external volume serial number

**OWNER**

The owner of the volume

**MEDIANAME**

The media name or type of media of the volume

**T**

The in-transit status of the volume. Y indicates that the volume is moving. N indicates that the volume currently resides in a system-managed library and must be ejected before it can be moved.

**TOBIN**

The target bin number

Figure 15 is a movement report showing volumes to be moved from the storage location LOCAL to a library named ATL1.

```

1                               IBM INTERNAL USE
REMOVABLE MEDIA MANAGER          VOLUMES TO BE MOVED FROM LOCATION LOCAL    TO LOCATION ATL1          PAGE 1
5647-A01 (C) Copyright IBM Corp. 1993,2000 -----
BIN  VOLUME RACK  OWNER  MEDIANAME T  BIN  VOLUME RACK  OWNER  MEDIANAME T  BIN  VOLUME RACK  OWNER  MEDIANAME T
-----
12  C00123 C00123 GARROTTO  3480 Y
13  C00125 C00125 GLYN      3480 Y
17  C00789 C00789 WANGSP  3480 Y
21  C00801 C00801 GARROTTO  3480 Y
24  C00946 C00946 KAHIL   3480 Y
36  C01247 C01246 WANGSP  3480 Y
44  C01249 C01249 TOMKINI  3480 Y
45  C01256 C01256 FLECK   3480 Y
46  C01257 C01257 MBAKER  3480 Y

```

Figure 15. Volume Movement Report

Figure 16 on page 33 is a movement report that shows volumes that are ready-to-scratch volumes. You can use this report to separate volumes that require release actions prior to release from volumes that can be returned directly to scratch status. See “Using Movement Reports” on page 31 for a description of the columns in the report.

REMOVABLE MEDIA MANAGER 5647-A01 (C) Copyright IBM Corp. 1993,2000					VOLUMES TO BE MOVED FROM LOCATION LOCAL					TO LOCATION SHELF			PAGE 1	
													DATE 2000/06/14	
BIN	VOLUME	RACK	OWNER	MEDIANAME T	BIN	VOLUME	RACK	OWNER	MEDIANAME T	BIN	VOLUME	RACK	OWNER	MEDIANAME T
	2	SRT020	SRT020	D041044										
	3	SRT022	SRT022	D041044										
	6	SRT026	SRT026	D041044										
	9	SRT029	SRT029	D041044										
	10	SRT030	SRT030	D041044										
	15	SRT043	SRT043	D041044										

TOTAL NUMBER OF ENTRIES LISTED = 6

Figure 16. Movement Report for Ready to Scratch Volumes

When you request the Ready-to-Scratch volume report along with the movement reports, DFSMSRmm excludes the volumes that are identified with the return-to-scratch status from the movement reports.

## Using Scratch List Reports

You can request a report that lists scratch volumes defined to DFSMSRmm. There are two types of scratch list reports.

- The scratch list report contains the list of all volumes in scratch status. DFSMSRmm returns all the volumes that are in scratch status at the time you run the job. The scratch list report is a snapshot of your volumes at a single point in time and will likely contain different volumes each time you run the report. Because the report is produced at a specific time, when you use the report you might find differences between the information in report and the information in the DFSMSRmm control data set. One reason for the difference is that your scratch volume inventory changes as volumes are used. Another reason might be that you have run expiration processing. Both these events can change information in the control data set that might not be reflected in the report. Each time the scratch list is produced, the list provides a total list of all the scratch volumes at that time.
- The new scratch list report lists volumes returned to scratch status since the last time you ran the scratch list report. The new scratch list returns only those volumes returned to scratch since the last time you requested a scratch list. The last list was either a scratch list (all volumes) or a new scratch list.

DFSMSRmm produces scratch list reports in the NEWSR and SCRLIST output files, as described in “DD Statements for Scratch List Reports” on page 28. DFSMSRmm uses the SCRDATE output file to keep track of the latest volume scratch date and time. Producing a scratch list report is optional. You can decide which reports to produce by specifying the DD statements for the reports you want. You can combine the production of scratch reports with movement reports and inventory reports in the same run of EDGRPTD.

The NEWSR and SCRLIST reports use the same format. DFSMSRmm starts a new page for each scratch pool or storage group. The reports list volumes within a storage group by storage group and location. The reports list volumes with no storage group by storage group when the matching pool has a NAME value. The report lists the remaining scratch volumes by matching pool prefix and location.

You can use scratch list reports to identify volumes that can be used to satisfy scratch requests. Each report consists of data columns, as shown in Figure 17. The data columns are:

**VOLUME**

The volume serial number.

**RACK**

The rack number and external volume serial number.

**MEDIANAME**

The media name of the volume. Your installation defines the media name. MEDIANAME identifies the shelving characteristics of the media such as size or shape.

**SCRATCH DATE+TIME**

The date and time when the volume returned to scratch status.

**LOCATION**

The location where the volume resides.

**DATA SET NAME**

The data set name of the first file on the volume.

**VSEQ**

The volume sequence number.

**DSEQ**

The data set sequence number on the named volume.

**MEDIATYPE**

The physical media type of the volume.

Figure 17 is an example of a scratch list report.

```

                                CENTERED CLASSIFICATION
REMOVABLE MEDIA MANAGER          SCRATCH VOLUMES BY POOL NAME REDSTRIPE          PAGE          1
5647-A01 (C) Copyright IBM Corporation 2000 -----          DATE 2001/01/01
VOLSER RACK  MEDIANAME SCRATCH DATE+TIME  LOCATION DATA SET NAME          VSEQ DSEQ MEDIATYPE
-----
ABC123 ABC123 CARTS    1999/12/01 11:23:00 SHELF  MYDSN.WAS.KEPT          2   1 ECCST
TOTAL NUMBER OF ENTRIES LISTED = 1

```

Figure 17. Scratch List Report

Figure 18 is an example of a new scratch list report.

```

                                CENTERED CLASSIFICATION
REMOVABLE MEDIA MANAGER          NEW SCRATCH VOLUMES SINCE 1999/11/28 08:00:03 POOL NAME REDSTRIP          PAGE          1
5647-A01 (C) Copyright IBM Corporation 2000 -----          DATE 2001/01/01
VOLSER RACK  MEDIANAME SCRATCH DATE+TIME  LOCATION DATA SET NAME          VSEQ DSEQ MEDIATYPE
-----
999123 999123 CARTS    1999/12/01 11:23:00 MTL    MYDSN.WAS.KEPT          2   3 HPCT
TOTAL NUMBER OF ENTRIES LISTED = 1

```

Figure 18. New Scratch List Report

## Return Codes for EDGRPTD

EDGRPTD issues one of the return codes shown in Table 6.

Table 6. EDGRPTD Return Codes

Return Code	Explanation
0	All requested functions completed successfully.
4	DFSMSrmm encountered a minor error during processing. It issues a warning message and continues processing.
12	DFSMSrmm encountered a severe error during processing of one of the requested functions. DFSMSrmm stops the utility.
16	DFSMSrmm encountered a severe error during a required communication with the DFSMSrmm subsystem. DFSMSrmm stops the utility.

---

## Using EDGAUD to Create Security and Audit Reports

Use the EDGAUD utility to create security and audit reports, using either previously selected and sorted SMF records or raw SMF data. DFSMSrmm produces SMF records when you specify the DFSMSrmm EDGRMMxx parmlib OPTION SMFAUD or SMFSEC operands. See *OS/390 DFSMSrmm Implementation and Customization Guide* for information about the SMFAUD option and the SMFSEC option. DFSMSrmm uses the default report options and the current SMF record types unless you override them with the EDGAUD EXEC parameters.

The EDGAUD utility reads the SMFIN file and selects records that are based on the processing criteria. The utility uses DFSORT to order the records to produce the reports you request.

You do not need to provide DFSORT parameters or work data sets. EDGAUD specifies the necessary parameters for DFSORT and requests dynamic allocation of work data sets.

For the security report, DFSMSrmm produces one line in the report for each security SMF record found in the input file.

For the audit report, DFSMSrmm can generate multiple report lines for each selected SMF record. For example, DFSMSrmm produces a line in the volume report, the rack number report, and the user ID report with an SMF record for a volume that has been updated.

## JCL for EDGAUD

To create a security or audit report, submit a job with JCL as shown in Figure 19.

```
//AUDREPT EXEC PGM=EDGAUD,  
// PARM='SMFAUD(nnn),SMFSEC(nnn),SEC("security classification")'  
//SYSPRINT DD program messages  
//SMFIN DD input data set of SMF records  
//AUDREPT DD audit report  
//SECREPT DD security report  
//SYSOUT DD DFSORT messages  
//SYSIN DD select statements for audit report
```

Figure 19. JCL for EDGAUD

## EXEC Parameters for EDGAUD

Figure 20 shows the EXEC parameters for EDGAUD.

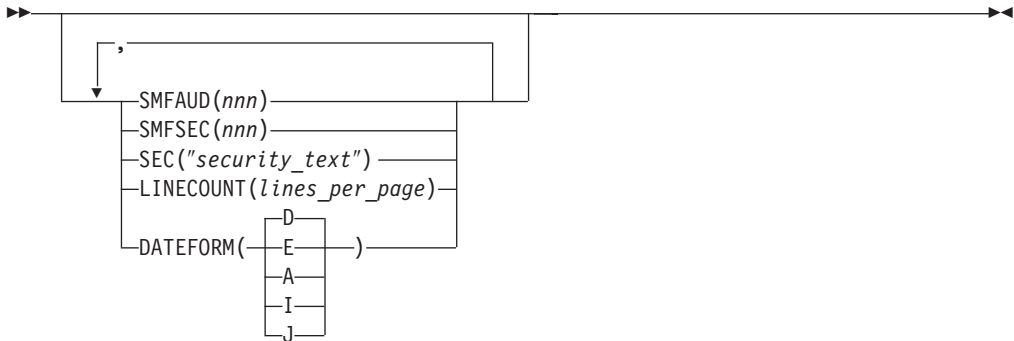


Figure 20. EDGAUD EXEC Parameters

The EXEC parameters for EDGAUD are:

### DATEFORM (A/E/I/J/D)

Use this parameter to set the date format for reports.

Value	Language	Format	Example
A	American	mm/dd/yyyy	12/15/2000
E	European	dd/mm/yyyy	15/12/2000
I	ISO	yyyy/mm/dd	2000/12/15
J	Julian	yyyy/ddd	2000/350
D	Default	Installation default in EDGRMMxx	Initially set to Julian

### LINECOUNT(lines\_per\_page)

Specifies the page length. The default is 54 lines per page.

### SEC("security\_text")

Specifies the security heading text for the reports. Specify up to 32 characters and, if the text contains blanks or special characters, enclose it in double quotes.

### SMFAUD(nnn)

Specifies a number that represents the SMF record number to be used to select data for reporting. Specify SMFAUD to override the current subsystem startup option value.

### SMFSEC(nnn)

Specifies a number that represents the SMF record number to be used to select data for reporting. Specify SMFSEC to override the current subsystem startup option value.

## DD Statements for EDGAUD

The DD statements are as follows:

### SYSPRINT

SYSPRINT specifies program and information messages. This DD statement is required.

### SMFIN

SMFIN specifies the SMF record input data set. This DD statement is required.

## AUDREPT

AUDREPT specifies that you want to create an audit report in this data set. DFSMSrmm does not produce a report unless you specify this DD statement. The report data set record length is 132 characters. This DD statement is optional.

## SECRET

SECRET specifies that you want to create a security report in this data set. DFSMSrmm does not produce a report unless you specify this DD statement. The report data set record length is 132 characters. This DD statement is optional.

## SYSOUT

SYSOUT specifies an output file for DFSORT messages. The SYSOUT DD statement is required; the job fails if you do not specify it. If you do not want to see the DFSORT messages, you can use:

```
//SYSOUT DD DUMMY
```

. Alternatively, you can use:

```
//DFSPARM DD *  
MSGPRT=NONE  
/*
```

to tell DFSORT not to print any messages or:

```
//DFSPARM DD *  
MSGPRT=CRITICAL,NOLIST  
/*
```

to tell DFSORT to print only error messages, if any.

## SYSIN

Specifies select statements for the audit report, which you specify with the AUDREPT DD statement. The select statements help you tailor the report. This DD statement is optional.

### SYSIN Commands for EDGAUD

Figure 21 shows the format of the audit report selection options that you can supply for SYSIN.

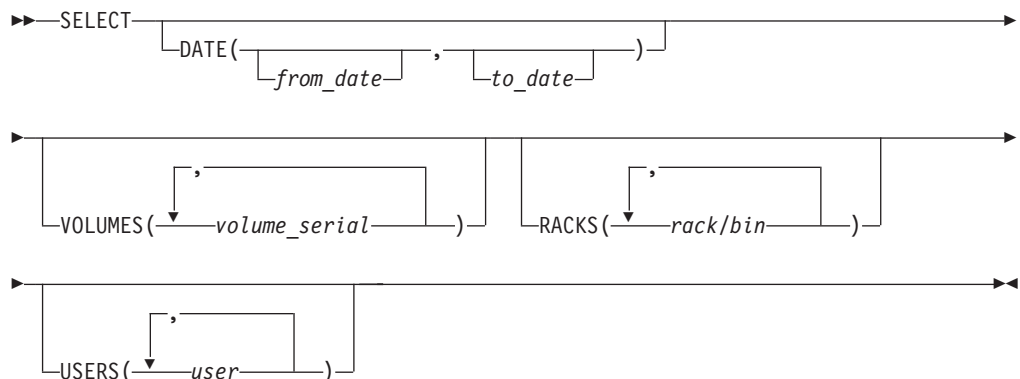


Figure 21. EDGAUD SYSIN Commands

All SYSIN commands are optional, and you can specify them in any order, except for SELECT. You must always specify SELECT first if you use any other commands, as shown in Figure 22.

```
//S1SMF03 JOB 'SMF/S1SMF03',NOTIFY=LYONS,CLASS=A,USER=LYONS,
//          PASSWORD=LYONS,MSGLEVEL=(1,1),MSGCLASS=H,REGION=4M
//AUDREPT EXEC PGM=EDGAUD,REGION=5M,
//          PARM='SMFAUD(248),SMFSEC(249),SEC(IUO),DATEFORM(A)'
//SYSPRINT DD SYSOUT=*
//SMFIN    DD DISP=SHR,DSN='RMMTST.S1SMF02.MANXY'
//AUDREPT DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          DSN=RMMTST.S1SMF03.AUDREPT,
//          SPACE=(4096,(10,1),RLSE),
//          DCB=(DSORG=PS,RECFM=VBS,BLKSIZE=4096,LRECL=32000)
//SECREPT DD DISP=(NEW,CATLG),UNIT=SYSDA,
//          DSN=RMMTST.S1SMF03.SECREPT,
//          SPACE=(4096,(10,1),RLSE),
//          DCB=(DSORG=PS,RECFM=VBS,BLKSIZE=4096,LRECL=32000)
//SYSOUT   DD DUMMY
//SYSIN    DD *
           SELECT DATE(02/21/1993,02/24/1993) -
           VOLUMES(A0423*,A0433*) RACK(A0423*,A0433*) -
           USERS(LYONS,RMMU001,SMFU001,SMFU002,SMFU003)
```

Figure 22. Example of JCL for Using the SELECT SYSIN

If you do not specify VOLUMES, USERS, or RACKS, DFSMSrmm produces all three reports within the specified date range. Otherwise, DFSMSrmm produces only the report types you request. If you do not specify DATE, all the input records selected are subject to other selection criteria you have specified.

### SELECT

SELECT is not required but you must specify SELECT if you want to limit the type of reports or contents of reports.

### DATE(*from\_date,to\_date*)

Specify the date range of records to be selected for use in audit reports. The format of the date values is either as specified by the DATEFORM parameter or (if DATEFORM is not specified) as set by the DATEFORM parameter value defined by the installation. For example, if your installation set DATEFORM(J), specify:

```
DATE(1993/123,1993/223)
```

### RACKS(*rack/bin*)

Specify to limit the report to specific rack numbers or bin numbers. A rack number is six alphanumeric characters in any combination. A bin number is six numerics in any combination. You can specify a list of values.

### VOLUMES(*volume\_identifier*)

Specify to limit the report to specific volumes. A volume serial is one to six alphanumeric characters, or \$, #, or @, or special characters. You can specify a list of values.

### USERS(*user*)

Specify to include only those changes made by specific users in the report. A user is any valid user ID. You can specify a list of users.

You can specify generic volume, rack, or user information. For example, you can specify VOLUMES(ABC\*) to request all the volumes with volume serial number that start with 'ABC'.



## Using the Security Report

Secure volumes are volumes you identify using the SECCLS parmlib command described in *OS/390 DFSMSrmm Implementation and Customization Guide*. When you specify SMF(Y), DFSMSrmm creates an SMF record each time a data set is created, deleted, or referenced. The security report provides tracking information for the classified tape data you have identified.

You can use the security report to identify classified tape data sets that have been used for input or output. You can use the security report to keep track of accesses to secure volumes in your installation.

The security report, as shown in Figure 23 on page 40, is comprised of the following data columns:

**DATA SET NAME**

Classified data set name

**VOLUME**

Volume where the data set resides

**VSQ**

Volume serial number

**DSQ**

Data set sequence number

**MEDIA**

The installation-defined media name

**ACTION**

The action taken on the data set, which can be CREATE, READ, UPDATE, or DELETE

**SECURITY**

The highest security class of the volume when a data set was written.

**GROUP**

The current RACF connect group at the time the access was made.

**USERID**

The RACF user ID for the user who accessed the data set

**SYST**

The SMF system identifier

**DATE**

The date when the data set was accessed

**TIME**

The time when the data set was accessed

Figure 23 on page 40 shows excerpts from a security report.

REMOVABLE MEDIA MANAGER 5647-A01 (C) Copyright IBM Corp. 1993,2000	REPORT OF ACCESSES TO SECURE VOLUMES						DATE 2000/06/14				
DATA SET NAME	VOLUME	VSQ	DSQ	MEDIA	ACTION	SECURITY	GROUP	USERID	SYST	DATE	TIME
USERJOY.S1ATL026.D65DM1.BACKUP	002030	1	2	3490	CREATE	SECURE	SYS1	DILE	3090	02/23/2000	16:22:28
USERJOY.S1ATL026.D65DM1.BACKUP	002031	2	2	3490	CREATE	SECURE	SYS1	DILE	3090	02/23/2000	16:28:25
USERJOY.S1ATL026.D65DM1.BACKUP	002033	3	2	3490	CREATE	SECURE	SYS1	DILE	3090	02/23/2000	16:35:02
USERJOY.S1ATL026.USRPKC.BACKUP	002030	1	1	3490	CREATE	SECURE	SYS1	DILE	3090	02/19/2000	14:50:50
USERJOY.S1ATL026.USRPKC.BACKUP	002030	1	1	3490	CREATE	SECURE	SYS1	MIKE	3090	02/19/2000	15:15:11
USERJOY.S1ATL026.USRPKC.BACKUP	002030	1	1	3490	CREATE	SECURE	SYS1	DILE	3090	02/23/2000	16:17:37
RMMU001.RAC005.DS1	A00099	1	1	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/19/2000	11:06:46
RMMU001.RAC005.DS1	123456	1	1	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/19/2000	14:19:12
RMMU001.RAC005.DS1	A04101	1	1	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/22/2000	11:08:05
RMMU001.RAC005.DS1	A04101	1	1	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/22/2000	13:14:28
RMMU001.RAC005.DS2	A00099	1	2	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/19/2000	11:06:48
RMMU001.RAC005.DS2	123456	1	2	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/19/2000	14:19:14
RMMU001.RAC005.DS2	A04101	1	2	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/22/2000	11:08:07
RMMU001.RAC005.DS2	A04101	1	2	3480	CREATE	GENERAL	D65RMM	RMMU001	3090	02/22/2000	13:14:29
CAUDILL.S1VVA09.V1F1	A04201	1	1	3480	CREATE	CLASS11	SYS1	LYONS	3090	02/23/2000	16:48:24
CAUDILL.S1VVA09.V1F1	A04201	1	1	3480	CREATE	CLASS11	SYS1	LYONS	3090	02/23/2000	16:56:46
CAUDILL.S1VVA09.V2F1	A04301	1	1	3480	CREATE	CLASS11	SYS1	LYONS	3090	02/23/2000	16:53:47
TOTAL NUMBER OF ENTRIES LISTED =	18										

Figure 23. Report of Access to Secure Volumes

## Using the Audit Report

The audit report enables you to track changes to the control data set, identify inadvertent changes, and recover lost volumes. DFSMSrmm creates an audit SMF record whenever information about a volume, a rack number, or bin number changes in the control data set. With EDGAUD, you can create reports that list the changes that have been made in the control data set.

The basic audit report consists of as many as three individual reports, depending on report types you request. The individual reports are the VOLUME report, the RACK/BIN report, and the USERID report.

- **VOLUME report**  
DFSMSrmm adds a report line in the volume report only when volume information changes. The volume report is sorted by volume serial number.
- **RACK/BIN report**  
DFSMSrmm updates information in this report when volume information and rack or bin number information change. The rack/bin report is sorted by rack or bin number.
- **USERID report**  
DFSMSrmm updates information in this report when volume information and rack or bin number information change. The userid report is sorted by user ID.

Changes to volume information can affect more than the volume report. For example, the EDGAUD utility makes the following audit report entries when a volume is added to the library.

- A volume line in the VOLUME report
- A volume line in the RACK/BIN report
- A volume line in the USERID report
- A report line for deletion of an empty rack number in the RACK/BIN report
- A report line for creation of an in-use rack number in the RACK/BIN report

When a volume is in the process of being moved, DFSMSrmm marks the location field in the audit report with the '<' character, as shown in Figure 24 on page 42. This marks the location as the one from which the volume is moving.

The audit report columns include:

**VOLUME**

Volume serial number.

**RACK**

Rack number.

**BIN**

Bin number.

**USERID**

User ID that initiated the change. A user ID that starts with an asterisk (\*) indicates that a DFSMSrmm function initiated the change.

**DATE**

Date the control data set changed.

**TIME**

Time the control data set changed.

**SYSTEM**

The SMF system identifier.

**STATUS**

One of:

**CLOSED**

For a stacked volume, DFSMSrmm lists the stacked volume in the report because the stacked volume was closed by command processing or export processing.

**EMPTY**

Rack or bin number has no volume assigned. For a stacked volume, the stacked volume contains no volumes.

**IN USE**

Rack or bin number contains non-scratch volume.

**MASTER**

Volume is master status.

**OPEN**

Data set on the volume is open. For a stacked volume, the stacked volume contains at least one volume.

**SCRATCH**

Volume is scratch or shelf location contains scratch volume.

**USER**

Volume is a user volume.

**VITAL**

Volume is retained by a vital record specification. For a stacked volume, the stacked volume contains volumes that are retained by vital record specifications.

**LOCATION**

Location where the volume is stored. When a volume is in the process of being moved, DFSMSrmm marks the location field in the audit report with the '<' character.

**LOAN LOC**

Location outside the library where the volume is on loan.

**OWNER**

Volume owner.

**EXP DATE**

Volume expiration date.

**SECURITY**

Highest security classification in effect when the volume was accessed.

**ACTIVITY**

Can be: CREATE, DELETE, or UPDATE.

Figure 24 shows excerpts from an audit trail report. The first column heading identifies the type of report information that is contained in the report.

REMOVABLE MEDIA MANAGER											AUDIT TRAIL REPORT		PAGE	1
5647-A01 (C) Copyright IBM Corporation 2000													DATE	2001/01/01
VOLUME	RACK	BIN	USERID	DATE	TIME	SYSTEM	STATUS	LOCATION	LOAN	LOC	OWNER	EXP DATE	SECURITY	ACTIVITY
111000	111000	000033	DENZEL	16/11/1999	04:00:10	E4E4	MASTER	<REMOTE			RDRHSME	07/11/1999	U	UPDATE
111041	111041	000042	BJK	16/11/1999	04:00:03	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111054	111054	000043	PALMER	16/11/1999	04:00:14	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111056	111056	000044	WRIGHT	16/11/1999	04:00:10	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111089	111089	000048	GILLPAT	16/11/1999	04:00:08	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111113	111113	000121	WHEELER	16/11/1999	04:00:12	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111122	111122	000122	PENDLTN	16/11/1999	04:00:12	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111124	111124	000123	ZOUNEK	16/11/1999	04:00:15	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111127	111127	000124	TAUBER	16/11/1999	04:00:14	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE
111128	111128	000125	RDRHSME	16/11/1999	04:00:07	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE

Figure 24. Audit Trail Report (Part 1 of 3)

REMOVABLE MEDIA MANAGER											AUDIT TRAIL REPORT		PAGE	2
5647-A01 (C) Copyright IBM Corporation 2000													DATE	2001/01/01
RACK/BIN	VOLUME	USERID	DATE	TIME	SYSTEM	STATUS	LOCATION	LOAN	LOC	OWNER	EXP DATE	SECURITY	ACTIVITY	
000033	111000	WEISSEN	16/11/1999	04:00:10	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
000042	111041	WEISSEN	16/11/1999	04:00:03	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
000043	111054	GILLES	16/11/1999	04:00:14	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
000044	111056	GILLES	16/11/1999	04:00:10	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
000122	111122	KIRCHHOF	16/11/1999	04:00:12	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
000123	111124	KIRCHHOF	16/11/1999	04:00:15	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
000124	111127	SMAX	16/11/1999	04:00:14	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
000125	111128	SMAX	16/11/1999	04:00:07	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	
111041	111041	MOREY	16/11/1999	04:00:03	E4E4	MASTER	REMOTE			RDRHSME	07/11/1999	U	UPDATE	

Figure 24. Audit Trail Report (Part 2 of 3)

USERID	VOLUME	RACK	BIN	DATE	TIME	SYSTEM	STATUS	LOCATION	LOAN	LOC	OWNER	EXP DATE	SECURITY	ACTIVITY
*HKP	111044	111044		16/11/1999	01:01:05	E4E4	SCRTCH	SHELF					U	UPDATE
*HKP	111044	111044		16/11/1999	01:01:05	E4E4	IN USE	SHELF					U	DELETE
*HKP	111044	111044		16/11/1999	01:01:05	E4E4	SCRTCH	SHELF					U	CREATE
*HKP	111206	111206		16/11/1999	01:01:07	E4E4	SCRTCH	SHELF					U	UPDATE
*HKP	111627	111627		16/11/1999	01:01:07	E4E4	MASTER	SHELF			KOEPEL	28/07/1999	U	UPDATE
*HKP	111206	111206		16/11/1999	01:01:07	E4E4	IN USE	SHELF			WALDO	28/07/1999	U	DELETE
*HKP	111206	111206		16/11/1999	01:01:07	E4E4	SCRTCH	SHELF			WALDO	28/07/1999	U	CREATE
*HKP	111280	111280		16/11/1999	01:01:09	E4E4	SCRTCH	SHELF					U	UPDATE
*HKP	111282	111282		16/11/1999	01:01:09	E4E4	MASTER	SHELF			RDRPCA	07/10/1999	U	UPDATE
*HKP	111280	111280		16/11/1999	01:01:09	E4E4	IN USE	SHELF			RDRPCA	07/10/1999	U	DELETE
*HKP	111280	111280		16/11/1999	01:01:09	E4E4	SCRTCH	SHELF			RDRPCA	07/10/1999	U	CREATE
*HKP	111282	111282		16/11/1999	01:01:11	E4E4	SCRTCH	SHELF					U	UPDATE

Figure 24. Audit Trail Report (Part 3 of 3)

## Return Codes for EDGAUD

EDGAUD issues one of the return codes shown in Table 7.

Table 7. EDGAUD Return Codes

Return Code	Explanation
0	All requested functions completed successfully.
4	DFSMSrmm encountered a minor error during processing. It issues a warning message and continues processing.
12	DFSMSrmm encountered a severe error during processing of one of the requested functions. DFSMSrmm stops the utility.
16	DFSMSrmm encountered a severe error during a required communication with the DFSMSrmm subsystem. DFSMSrmm stops the utility.



## Chapter 4. Creating Reports Using DFSMSrmm-Supplied EXECs

### DFSMSrmm Sample Provided in SAMPLIB

- EDGJRPT Sample JCL to Create Reports Using the Extended Report Extract Data Set

DFSMSrmm provides Restructured Extended Executor (REXX) execs and JCL that you can use to create the reports described in Table 8. You can copy these EXECs and use them to create reports that are tailored for your installation as described in “Tailoring the DFSMSrmm-Supplied EXECs to Create Your Own Reports” on page 48.

You can use the sample EDGJRPT to invoke the EDGRRPTE exec to create the reports. The input to the reporting execs is the extended extract data set.

Use the EDGRRPTM, EDGRRPTN, or EDGRRPTR execs to create an extended extract data set. The REXX execs are in SYS1.SEDGEXE1. The extended extract data set contains volume and data set records that are combined into a single record by concatenating volume and data set information. The data set record is appended at 800 bytes. The layout is built using the EDGRVEXT volume record mapping macro and the EDGRDEXT data set record mapping macro. The data set record starts at offset 800. See “Appendix B. DFSMSrmm Mapping Macros” on page 185 for the mapping for these macros. For stacked volumes, DFSMSrmm merges the stacked volume location information into the location information for all volumes contained in the stacked volume.

#### EDGRRPTM

Use the EDGRRPTM REXX exec to create an extended extract data set only for multiple data set reports or multiple volume reports.

#### EDGRRPTN

Use the EDGRRPTN REXX exec to add the volume count to the extended extract data set for the entire inventory.

#### EDGRRPTR

Use the EDGRRPTR REXX exec to create an extended report extract data set.

#### EDGRRPTE

Use the EDGRRPTE REXX exec to create the reports.

Use the sample EDGJRPT JCL and these execs to produce the reports shown in Table 8.

Table 8. DFSMSrmm Reports

Report Name	Description
REPORT01	Pull list for scratch tapes sorted by volume serial number
REPORT02	Pull list for scratch tapes sorted by data set name
REPORT03	Inventory list by volume serial number
REPORT04	Inventory list by data set name
REPORT05	Inventory of data sets including number of kilobytes (KB) used

Table 8. DFSMSrmm Reports (continued)

Report Name	Description
REPORT06	Inventory of volume serial number by location
REPORT07	Inventory of data set names by location
REPORT08	Inventory of bin numbers by location
REPORT09	List of all data set names at loan locations
REPORT10	List of all volume serial numbers at loan locations
REPORT11	List of all multivolume data sets
REPORT12	Movement report including the first data set name on the volume.
REPORT13	Movement report sorted by storage location bin number
REPORT14	Movement report sorted by volume serial number
REPORT15	Inventory list sorted by volume serial number including volume count

---

## How to Create Reports

Use the sample EDGJRPT JCL to create an extended extract data set from an extract data set created during DFSMSrmm inventory management. Then use EDGRRPTE to create the DFSMSrmm-supplied reports. See “Tailoring the DFSMSrmm-Supplied EXECs to Create Your Own Reports” on page 48 for further information.

Make a copy of sample EDGJRPT JCL that is in SAMPLIB. The DFSMSrmm extract data set is input to EDGJRPT to create an extended report extract data set. EDGJRPT then selects and sorts the records to create the report.

To create reports:

1. Create a DFSMSrmm extract data set by using the DFSMSrmm EDGHSKP utility. Use the ISO or JULIAN DATEFORM to sort the date fields in the correct sort order. Refer to the step named STEP01 in the sample EDGJRPT JCL.
2. Make sure all the messages that the DFSMSrmm subsystem issues during inventory management are copied to your job log. Refer to the step named SORTVOL in the sample EDGJRPT JCL.
3. Create a temporary data set that includes only extract data set volume records as mapped by EDGRVEXT record type V. This file is sorted by volume serial number in ascending order. Refer to the step named STEP02 in the sample EDGJRPT JCL.
4. Create a temporary data set that includes only the data set records from the extract data set as mapped by EDGRDEXT record type D. See “Extract Data Set Data Set Name Record: EDGRDEXT” on page 186 for a mapping of the EDGRDEXT macro. The records in the temporary data set are sorted by volume serial number in ascending order. Refer to the step named SORTDSN in the sample EDGJRPT JCL.
5. Create a new extended extract data set. Each record is a combination of an extract data set volume record EDGRVEXT and an extract data set data set record EDGRDEXT. The LRECL of the new extended extract data set is 1200 bytes, and the record format is FB. If you change the record format to VB, you must also change all sort options in sort steps that follow. Refer to the step named EXTEXTR and the SORTnn steps in the sample EDGJRPT JCL.



6. Create a temporary file for each report you want to run. For example, if you want REPORT01, you must create a temporary file during step SORT01. Skip these steps for the reports you do not want to run. Refer to the SORTnn step in the sample EDGJRPT JCL.
7. Add additional information to the extended extract data set REPORT11 and REPORT15.  
 Add information about the first file on the first volume for each record to the extended extract data set. This information is required if you want to sort REPORT11 by the first file on the first volume. If you run REPORT11, you must run SORT11A, SORT11B, and SORT11C. You can skip this step if you do not select REPORT11. Refer to the steps SORT11A, SORT11B, and SORT11C in the sample EDGJRPT JCL.  
 Add information about the volume identifier and data set sequence to each record to the extended extract data set. If you run REPORT15, you must run SORT15A and SORT15B. Refer to the steps SORT15A and SORT15B in the sample EDGJRPT JCL.
8. Create a temporary file to sort the records by the first file on the first volume. If you run REPORT11, you must create this file by running Step SORT11B. You can skip this step if you do not select REPORT11. If you run REPORT15, you must create this file by running Step SORT15B. You can skip this step if you do not select REPORT15. Refer to the steps SORT11B or SORT15B in the sample EDGJRPT JCL.
9. Produce the extended reports. If you have omitted any of the SORTnn steps, also omit the corresponding //REPORTnn DD statements. Refer to the step named EXTRPDT in the sample EDGJRPT JCL.

---

## Tailoring the Sample JCL for EDGJRPT

Before you can use the JCL for the extended extract dataset, you must customize the sample JCL EDGJRPT for your environment.

1. Modify the PAGEDEF and FORMDEF definitions in the OUTDDQ DD statement in step EXTRPDT.
  - a. Specify a valid font for your printer.
  - b. Define a Printer address and a node to print your reports.
2. Change the data set name of the MESSAGE DD statements to your own data set name of the MESSAGE file.
3. Change the data set name of the report extract file to your own naming convention. You must make this change wherever the RMM.EXTRACT.FILE file report name is specified.
4. Change the data set name of the extended report extract file to your own naming convention. You must make this change wherever the RMM.EXTENDED.EXTRACT.FILE report file name is used in the sample.
5. Change the SPACE and UNIT parameter for all SORTWKnn DD statements.
6. Change the SPACE and UNIT parameter for the extended report extract file. Calculate DASD space requirements for the extended extract data set by multiplying the number of data set records by 1200 bytes for each record.
7. The lines per page are defined as a parameter to the EDGRRPTE REXX procedure. If you need to use a value other than 54, replace the "054" value with your own choice.
8. Select reports by using the parameters that are passed to the EDGRRPTE REXX procedure. Enter a

Y



```

/** *****
/** * SORTED BY VOLSER IN ASCENDING ORDER *
/** * INCLUDE ONLY STATUS = SCRATCH AND DATA SET SEQUENCE LT 2*
/** *****
//SYSIN DD *
      SORT FIELDS=(5,6,CH,A)
      INCLUDE COND=(318,8,CH,EQ,C'SCRATCH ',
                   AND,911,4,CH,LT,C' 2')
/*

```

Figure 27. Sorting by Volume Serial Number and Volume Status

Figure 28 shows 371 in the SORT FIELD which is the offset in the EDGRVEXT mapping macro for the temporary write errors.

```

/** *****
/** * SORTED BY TEMPORARY WRITE ERRORS IN DESCENDING ORDER *
/** * INCLUDE ONLY STATUS = SCRATCH AND DATA SET SEQUENCE LT 2*
/** *****
//SYSIN DD *
      SORT FIELDS=(371,4,CH,D)
      INCLUDE COND=(318,8,CH,EQ,C'SCRATCH ',
                   AND,911,4,CH,LT,C' 2')
                   AND,371,4,CH,GT,C' 0')
/*

```

Figure 28. Sorting by Volume Serial Number, Volume Status, and Temporary Errors, Excluding Volumes without Errors

3. To select the reports you want to produce, modify the selection values in EDGJRPT as shown in Figure 29. If you use the values in Figure 29, only REPORT01 is produced. You can also modify the classification for this report at this time.

```

EX 'SYS1.SEDGEXE1(EDGRRPTE)' -
  '054 Y N N N N N N N N N N N N N N N N +
  Internal use only'

```

Figure 29. Selecting REPORT01

4. To change the report header, modify the DFSMSrmm-supplied EDGRRPTE REXX exec shown in Figure 30.

```

t2.1 = center('Scratch Tapes by Volume Serial Number',70)
t0.2 = left('EDGRPT01',10)

```

Figure 30. REPORT01 Report Header

Figure 31 shows the change to create a new report header named Volumes with Temporary Errors.

```

t2.1 = center('Volumes with Temporary Errors',70)
t0.2 = left('EDGRPT01',10)

```

Figure 31. REPORT01 Report Header Modified

5. To change the titles on the columns, modify the DFSMSrmm-supplied EDGRRPTE REXX exec. *out.cs = asa.2* is the title line for the report columns.

You can find the definition for the title variables in the sample EDGRRPTE exec starting at the label const. Figure 32 shows the report column headings as they are defined in the sample EDGRRPTE exec.

```
out.cs = asa.2 tvolser.1 tdsname.1 tvolseq.1 tdsnseq.1,
        tcrdate.1 texpdto.1,
        tflag.1 tltyp.1,
        tmedty.1 tmedrec.1,
        thome.1 tstore.1 tloc.1,
        terror.1
```

Figure 32. REPORT01 Column Headings

Figure 33 shows the variable *ttwrte.1*, which is the column heading for temporary errors.

```
out.cs = asa.2 tvolser.1 tdsname.1 tcrdate.1 ttwrte.1,
        texpdto.1,
        tflag.1 tltyp.1,
        tmedty.1 tmedrec.1,
        thome.1 tstore.1 tloc.1,
        terror.1
```

Figure 33. REPORT01 Column Headings Modified

- To obtain the correct output, modify the DFSMSrmm-supplied EDGRRPTE REXX exec by specifying the appropriate output variable. You can find the definition for these variables in the sample EDGRRPTE exec starting at the label lcllexmap. *out.cs = asa.0* is the output value returned in the report. Figure 34 shows the JCL from the sample EDGRRPTE exec.

```
out.cs = asa.0 rvolser rddsname rvvolseq rddsseq,
        rvcrdate rvexpdto,
        lclflag rvlabel,
        rvmedty rvmedrec,
        rvhloc rvloctyp lclloc lclerror
```

Figure 34. REPORT01 Returned Values

Figure 35 shows the addition of the *rvtwerr* variable to obtain the temporary write error information.

```
out.cs = asa.0 rvolser rddsname rvcrdate rvtwerr,
        rvexpdto,
        lclflag rvlabel,
        rvmedty rvmedrec,
        rvhloc rvloctyp lclloc
        lclerror
```

Figure 35. REPORT01 Returned Values Modified

- Submit the job.

---

## List of DFSMSrmm-Supplied Reports

Here are details about the reports you can create using the DFSMSrmm-supplied execs and JCL.

## REPORT01: Pull List for SCRATCH Tapes Sorted by Volume Serial Number

REPORT01, as shown in Figure 36 on page 52, includes volumes in SCRATCH status and only the first file on the volume. REPORT01 is sorted by volume serial number.

The data columns for REPORT01 are:

**Volume Serial**

The volume serial number.

**Data Set Name**

The name of the data set.

**Vol-Seq.**

The sequence number of the volume.

**DSN-Seq.**

The data set sequence number or the physical file sequence number on tape if the data set sequence number is blank or zero.

**Create Date**

The date when the data set was first written to tape.

**Org. Exp. Date**

The original volume expiration date written by O/C/EOV.

**VF**

The volume flag which can be one of the following:

**Blank**

Normal.

**O** The volume has been opened for a write operation and has not yet been closed. O might indicate that a write operation is still in progress or that a file has been left open by a system error. You can still open the volume for output but the data might be corrupted.

**A** The data set was closed by abend processing.

**LBL Typ**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Media Type**

The physical media type of the volume.

**Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

### Home Location

The place where a volume is returned.

### SS

The location type which can be one of the following:

#### Blank

The volume is in location SHELF.

**A** The volume is in an automatic system-managed library.

**M** The volume is in a manual system-managed library.

**S** The volume is in a storage location.

### Location Name

The storage location, loan location, or blank if the volume resides in its home location.

### Sum. Error

The total number of temporary and permanent read errors and write errors for the volume.

DFSMsrmm Internal use only		Scratch Tapes by Volume Serial Number								PAGE - 00001
EDGRPT01 -----		Vol-	DSN-	Create	Org. Exp.	V LBL Media	Rec.	Home	S Location	Sum.
Volume	Data Set Name	Seq.	Seq.	Date	Date	F Typ Type	Fmt	Location	S Name	Error
A00031		1		12/05/1999		SL *	*	SHELF		0
A00032		1		12/05/1999		SL *	*	SHELF		0
A00033		1		12/05/1999		SL *	*	SHELF		0
A00034		1		12/05/1999		SL *	*	SHELF		0
A00035		1		12/05/1999		SL *	*	SHELF		0
A00036		1		12/05/1999		SL *	*	SHELF		0
A00037		1		12/05/1999		SL *	*	SHELF		0
A00038		1		12/05/1999		SL *	*	SHELF		0
A00039		1		12/05/1999		SL *	*	SHELF		0
A00040		1		12/05/1999		SL *	*	SHELF		0
A00101		1		12/05/1999		SL *	*	SHELF		0

End of Report. 11 Entries listed

Figure 36. Sample REPORT01 Output: Pull List for SCRATCH Tapes Sorted by Volume Serial Number

## REPORT02: Pull List for SCRATCH Tapes Sorted by Data Set Name

REPORT02, as shown in Figure 37 on page 54, includes volumes in SCRATCH status and only the first file on the volume. REPORT02 is sorted by data set name and volume serial number.

The data columns for REPORT02 are:

#### Volume Serial

The volume serial number.

#### Data Set Name

The name of the data set.

#### Vol-Seq.

The sequence number of the volume.

#### DSN-Seq.

The data set sequence number or the physical file sequence number on tape if the data set sequence number is blank or zero.

#### Create Date

The date when the data set was first written to tape.

**Org. Exp. Date**

The original volume expiration date written by O/C/EOV.

**VF**

The volume flag which can be one of the following:

**Blank**

Normal.

**O** The volume has been opened for a write operation and has not yet been closed. O might indicate that a write operation is still in progress or that a file has been left open by a system error. You can still open the volume for output but the data might be corrupted.

**A** The data set was closed by abend processing.

**LBL Typ**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Media Type**

The physical media type of the volume.

**Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

**Home Location**

The place where a volume is returned.

**SS**

The location type which can be one of the following:

**Blank**

The volume is in location SHELF.

**A** The volume is in an automatic system-managed library.

**M** The volume is in a manual system-managed library.

**S** The volume is in a storage location.

**Location Name**

The storage location, loan location, or blank if the volume resides in its home location.

**Sum. Error**

The total number of temporary and permanent read errors and write errors for the volume.

DFSMsrmm Internal use only		Scratch Tapes by Data Set Name										PAGE - 00001	
EDGRPT02 -----		Vol-	DSN-	Create	Org. Exp.	V	LBL	Media	Rec.	Home	S	Location	Sum.
Serial	Data Set Name	Seq.	Seq.	Date	Date	F	Typ	Type	Fmt	Location	S	Name	Error
A00031		1		12/05/1999			SL	*	*	SHELF			0
A00032		1		12/05/1999			SL	*	*	SHELF			0
A00033		1		12/05/1999			SL	*	*	SHELF			0
A00034		1		12/05/1999			SL	*	*	SHELF			0
A00035		1		12/05/1999			SL	*	*	SHELF			0
A00036		1		12/05/1999			SL	*	*	SHELF			0
A00037		1		12/05/1999			SL	*	*	SHELF			0
A00038		1		12/05/1999			SL	*	*	SHELF			0
A00039		1		12/05/1999			SL	*	*	SHELF			0
A00040		1		12/05/1999			SL	*	*	SHELF			0
A00101		1		12/05/1999			SL	*	*	SHELF			0

End of Report. 11 Entries listed

Figure 37. Sample REPORT02 Output: Pull List for SCRATCH Tapes Sorted by Data Set Name.

### REPORT03: Inventory List by Volume Serial Number

REPORT03, as shown in Figure 38 on page 55, includes all data sets. REPORT03 is sorted by volume serial number and data set sequence number.

The data columns for REPORT03 are:

- Volume Serial**  
The volume serial number.
- Data Set Name**  
The data set name of the first file on the volume.
- Vol-Seq.**  
The sequence number of the volume.
- DSN-Seq.**  
The data set sequence number or, if the data set sequence number is blank or zero, the relative position of the data set on the volume.
- Creating Jobname**  
The name of the job that created the data set or, if this field is blank, the name of the job that created the first data set on the volume.
- Create Date**  
The date when the data set was created.
- Create Time**  
The time when the data set was first written to tape.
- Expiration Date**  
The date the volume should be considered for release.
- Volume Ref. Date**  
Displays the date when the data set was last accessed for read processing or write processing.
- LBL**  
The tape label type which can be one of the following:
  - SL**  
Specifies an IBM standard label.
  - AL**  
Specifies an ANSI label.



**NL**  
Specifies no label.

**SUL**  
Specifies an IBM standard label with user labels.

**AUL**  
Specifies an ANSI label with user labels.

**Rec. Fmt**  
The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

**VS**  
The volume status which can be one of the following:

- S** SCRATCH
- M** MASTER
- U** USER
- I** INIT
- E** ENTRY

**VR**  
The vital record status which can be one of the following:

- Y** The volume is retained as a vital record.
- N** The volume is not retained as a vital record.

**Location Name**  
The storage location, loan location, or blank if the volume resides in its home location.

DFSMsrmm Security heading text		Inventory List by Volume Serial Number							PAGE - 00067
EDGRPT03 -----		Vol-	DSN-	Creating	Create	Create	Expiration	Volume	DATE - 99285
Volume		Seq.	Seq.	Jobname	Date	Time	Date	Ref. Date	Rec. V V Location
Serial	Data Set Name								S R Name
SC0000	HMIG.HMIGTAPE.DATASET	1	1		1999/209	080425		1999/212	SL * S N
SC0001	SIEGEL.USERTEST.FALSCH	1	1		1999/185	153551		1999/185	SL * S N
SC0002	HBAC.DMP.BUILD.VBSY179.D99086.T271823	1	1	DFHSM11	1999/086	231912	1999/365	1999/086	SL 36TR M N
SC0003	HBAC.DMP.TSO.VJET004.D95208.T475422	3	1		1999/209	062937		1999/209	SL * S N
SC0004	SMPMCS	1	1	STACKER	1993/279	131329	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F1	1	2	STACKER	1993/279	131342	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F2	1	3	STACKER	1993/279	131350	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F3	1	4	STACKER	1993/279	131410	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F4	1	5	STACKER	1993/279	131426	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F5	1	6	STACKER	1993/279	131438	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F6	1	7	STACKER	1993/279	131447	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F7	1	8	STACKER	1993/279	131455	1999/365	1993/279	SL 36TR U N
SC0004	JMY8M10.F8	1	9	STACKER	1993/279	131507	1999/365	1993/279	SL 36TR U N
SC0005	SCHLUM.RMMDEMO.FILE2.VOL12	2	1		1999/200	143036		1999/200	SL * S N
SC0005	SCHLUM.RMMDEMO.FILE3.VOL2	2	2		1999/200	143046		1999/200	SL * S N
SC0005	SCHLUM.RMMDEMO.FILE4.VOL23	2	3		1999/200	143533		1999/200	SL * S N
SC0006	SSCMVS.P9202.ESAS.EPD.DUMP	1	1	EPDRES3	1993/207	101728	1999/016	1993/209	SL 36TR U N
SC0007	HBAC.DMP.TSO.VEPD001.D95208.T195822	4	1		1999/209	062947		1999/209	SL * S N
.....									

End of Report. 7258 Entries listed

Figure 38. Sample REPORT03 Output: Inventory List by Volume Serial Number

## REPORT04: Inventory List by Data Set Name

REPORT04, as shown in Figure 39 on page 57, includes data sets and excludes all volumes without any data set information. REPORT04 is sorted by data set name, create date, and create time.

The data columns for REPORT04 are:

### **Data Set Name**

The data set name of the first file on the volume.

### **Volume Serial**

The serial number of the volume where the specified data set resides.

### **Vol-Seq.**

The volume sequence number.

### **DSN-Seq.**

The data set sequence number or if the data set sequence number is blank or zero the relative position of the data set on the volume.

### **Creating Jobname**

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

### **Create Date**

The date when the data set was first written to tape.

### **Create Time**

The time of day when the data set was created.

### **Expiration Date**

The date the volume should be considered for release.

### **Volume Ref. Date**

Displays the date when the data set was last accessed for read or write processing.

### **LBL**

The tape label type which can be one of the following:

#### **SL**

Specifies an IBM standard label.

#### **AL**

Specifies an ANSI label.

#### **NL**

Specifies no label.

#### **SUL**

Specifies an IBM standard label with user labels.

#### **AUL**

Specifies an ANSI label with user labels.

### **Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

### **VS**

The volume status which can be one of the following:

**S** SCRATCH

**M** MASTER

U USER

I INIT

E ENTRY

VR

The vital record status which can be one of the following:

Y The volume is retained as a vital record.

N The volume is not retained as a vital record.

Location Name

The storage location, loan location, or blank if the volume resides in its home location.

DFSMSrmm Security heading text		Inventory List by Data Set Name										PAGE -	00001	
EDGRPT04 -----		Volume	Vol-	DSN-	Creating	Create	Create	Expiration	Volume	Rec. V	V	Location	DATE -	95285
Data Set Name	Serial	Seq.	Seq.	Jobname	Date	Time	Date	Ref. Date	LBL	Fmt	S	R	Name	
ADDONS.CNTL	SC0019	1	3		1992/240	143829		1995/191	SL	*	S	N		
ADDONS.CNTL	SC0464	1	8		1992/240	084232		1995/254	SL	*	S	N		
ADDONS.CNTL	SC0473	1	8		1992/240	104530		1995/257	SL	*	S	N		
ADDONS.EXEC	SC0019	1	4		1992/240	143834		1995/191	SL	*	S	N		
ADDONS.EXECFB	SC0464	1	4		1992/240	084205		1995/254	SL	*	S	N		
ADDONS.INITVARS	SC0019	1	10		1992/240	143906		1995/191	SL	*	S	N		
ADDONS.INITVARS	SC0464	1	6		1992/240	084223		1995/254	SL	*	S	N		
ADDONS.MSGS	SC0019	1	9		1992/240	143902		1995/191	SL	*	S	N		
ADDONS.OBJ	SC0464	1	10		1992/240	084248		1995/254	SL	*	S	N		
ADDONS.OBJ	SC0473	1	10		1992/240	104544		1995/257	SL	*	S	N		
ADDONS.PANELS	SC0019	1	7		1992/240	143851		1995/191	SL	*	S	N		
ADDONS.SKELS	SC0019	1	8		1992/240	143858		1995/191	SL	*	S	N		
HBAC.DMP.BUILD.VBSY153.D95086.T455822	SC0030	1	1	DFHSM11	1992/240	225922	1999/365	1995/086	SL		36TR	M	N	
HBAC.DMP.BUILD.VBSY16A.D95086.T530423	SC0037	1	1	DFHSM11	1992/240	230551	1999/365	1995/086	SL		36TR	M	N	
HBAC.DMP.BUILD.VBSY162.D95086.T150823	SC0033	1	1	DFHSM11	1992/240	230920	1999/365	1995/086	SL		36TR	M	N	
HBAC.DMP.BUILD.VBSY166.D95086.T370823	SC0010	1	1	DFHSM11	1992/240	230921	1999/365	1995/086	SL		36TR	M	N	
HBAC.DMP.BUILD.VBSY172.D95086.T471523	SC0035	1	1	DFHSM11	1992/240	231806	1999/365	1995/086	SL		36TR	M	N	
HBAC.DMP.BUILD.VBSY175.D95086.T461723	SC0036	1	1	DFHSM11	1992/240	231811	1999/365	1995/086	SL		36TR	M	N	

.....

End of Report. 6480 Entries listed

Figure 39. Sample REPORT04 Output: Inventory List by Data Set Name

## REPORT05: Inventory of Data Sets Including Used Kilobytes

REPORT05, as shown in Figure 40 on page 59, includes data sets and excludes all volumes without any data set information. REPORT05 is sorted by data set name, create date, and create time.

The data columns for REPORT05 are:

**Data Set Name**

The data set name of the first file on the volume.

**Volume Serial**

The serial number of the volume where the specified data set resides.

**Vol-Seq.**

The volume sequence number.

**DSN-Seq.**

The data set sequence number or if the data set sequence number is blank or zero the relative position of the data set on the volume.

**Creating Jobname**

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

**Create Date**

The date when the data set was first written to tape.

**Create Time**

The time of day when the data set was created.

**Expiration Date**

The date the volume should be considered for release.

**Volume Ref. Date**

Displays the date when the data set was last accessed for read processing or write processing.

**LBL**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

**VS**

The volume status which can be one of the following:

**S** SCRATCH

**M** MASTER

**U** USER

**I** INIT

**E** ENTRY

**Kilobytes used**

The number of used kilobytes for the data set calculated by BLOCKSIZE multiplied with BLOCKCOUNT. If the block-size in the data-set record equals zero, a block-size of 64 KB is assumed. This is valid, because the default block size for DFSMSHsm and DFSMSdss output records written to tape is 65 520 bytes (64 KB).

The calculated value is an approximation of the amount of data written by the application. It does not reflect any system or hardware compression that may reduce the size stored on the volume.

DFSMSrmm Security heading text EDGRPT05 -----		Inventory List by Data Set Name incl. used KB							PAGE - 00001 DATE - 95285			
Data Set Name	Volume Serial	Vol-Seq.	DSN-Seq.	Creating Jobname	Create Date	Create Time	Expiration Date	Volume Ref. Date	LBL	Rec. V	Kilobytes used	
BSYDFP.ABARS.OUTPUT.D.G0001V00	SC0698	1	1	DFHSMABR	1992/163	150444	1999/365	1994/196	SL	18TR	M	2047
BSYDFP.ABARS.OUTPUT.D.G0001V00	SC0109	1	1	DFHSMABR	1992/267	124621	1999/365	1994/193	SL	18TR	M	5822
BSYDFP.ABARS.OUTPUT.I.G0001V00	SC0628	1	2	DFHSMABR	1992/163	150550	1999/365	1994/194	SL	18TR	M	223
BSYDFP.ABARS.OUTPUT.I.G0001V00	SC1027	1	2	DFHSMABR	1992/267	124700	1999/365	1994/195	SL	18TR	M	223
BSYDFP.ABARS.OUTPUT.O.G0001V00	SC0698	1	2	DFHSMABR	1992/163	150508	1999/365	1994/196	SL	18TR	M	2975
BSYDFP.ABARS.OUTPUT.O.G0001V00	SC0109	1	2	DFHSMABR	1992/267	124629	1999/365	1994/193	SL	18TR	M	1119
BSYDFP.ABARS.TEST.C.C01V0001	SC0343	1	1	DFHSMABR	1994/263	140941	1999/365	1994/263	SL	36TR	M	1375
BSYDFP.ABARS.TEST.D.C01V0001	SC0346	1	1	DFHSMABR	1994/263	140811	1999/365	1994/263	SL	36TR	M	3679
BSYDFP.ABARS.TEST.I.C01V0001	SC0372	1	1	DFHSMABR	1994/263	140846	1999/365	1994/263	SL	36TR	M	383
HBAC.DMP.BUILD.VBLD026.D95268.T221922	SC0899	2	1	DFHSMZB	1995/268	223102	1999/365	1995/268	SL	36TR	M	151488
HBAC.DMP.BUILD.VBLD026.D95275.T331722	SC1628	1	1	DFHSMZB	1995/275	221804	1999/365	1995/275	SL	36TR	M	621376
HBAC.DMP.BUILD.VBLD026.D95275.T331722	SC1636	2	1	DFHSMZB	1995/275	222913	1999/365	1995/275	SL	36TR	M	179200
HBAC.DMP.BUILD.VBLD027.D95219.T354422	SC2043	1	1		1995/219	224512		1995/219	SL	*	S	620288
HBAC.DMP.BUILD.VBLD027.D95247.T242722	SC2197	1	1		1995/247	222756		1995/247	SL	*	S	622400
....												

End of Report. 6480 Entries listed

Figure 40. Sample REPORT05 Output: Inventory of Data Sets Including Used Kilobytes

## REPORT06: Inventory of Volume Serial Numbers by Location

REPORT06, as shown in Figure 41 on page 60, includes all volumes residing in one of the three built-in storage locations or installation-defined storage locations. REPORT06 is sorted by storage location and volume serial number.

The data columns for REPORT06 are:

### Volume Serial

The serial number of the volume where the specified data set resides.

### Data Set Name

The data set name of the first file on the volume.

### BIN number

The assigned specific bin number. An asterisk (\*) following the bin number indicates that the bin number is the old bin number and is displayed when no current bin number is set for the volume.

### Creating Jobname

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

### Vol-Seq.

The volume sequence number.

### DSN-Seq.

The Data Set sequence number or, if the data set sequence number is blank or zero, the relative position of the data set on the volume.

### Create Date

The date when the data set was first written to tape.

### Create Time

The time of day when the data set was created.

### Expiration Date

The date the volume should be considered for release.

### Date stored

The date the volume was last moved from or to a new storage location.

**LBL**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

**VS**

The volume status which can be one of the following:

**S** SCRATCH

**M** MASTER

**U** USER

**I** INIT

**E** ENTRY

DFSMSrmm Security heading text		Inventory of Volumes in Storage Location DISTANT							PAGE - 00001	
EDGRPT06 -----									DATE - 95285	
Volume		BIN	Creating	Vol-	DSN-	Create	Create	Expiration	Date	Rec. V
Serial	Data Set Name	Number	Jobname	Seq.	Seq.	Date	Time	Date	stored	LBL Fmt S
SC0502	SSC.VITALREC.BUILD.E5A51.G0053V00		VRESA51	1	1	1992/240	215435	1995/295	1995/277	SL 36TR M
SC0513	SSC.VITALREC.BUILD.E5A51.G0053V00		VRESA51	2	1	1992/240	220945	1995/295	1995/277	SL 36TR M
SC0514	SSC.VITALREC.BUILD.E5AS.G0053V00		VRESAS	2	1	1992/240	212810	1995/295	1995/277	SL 36TR M
SC0515	SSC.VITALREC.BUILD.E5AS.G0053V00		VRESAS	1	1	1992/240	211341	1995/295	1995/277	SL 36TR M
SC0517	SSC.VITALREC.BUILD.MVSSMP.G0053V00		VRMVSSMP	2	1	1992/240	230650	1995/295	1995/277	SL 36TR M
SC0518	SSC.VITALREC.BUILD.NET.G0053V00		VRNET	3	1	1992/240	094046	1995/295	1995/277	SL 36TR M
SC0521	SSC.VITALREC.BUILD.E5A51.G0053V00		VRESA51	3	1	1992/240	222620	1995/295	1995/277	SL 36TR M
SC0522	SSC.VITALREC.BUILD.MVSSMP.G0053V00		VRMVSSMP	1	1	1992/240	224356	1995/295	1995/277	SL 36TR M
SC0523	SSC.VITALREC.BUILD.E5AS.G0053V00		VRESAS	3	1	1992/240	214454	1995/295	1995/277	SL 36TR M
SC0524	SSC.VITALREC.BUILD.NET.G0053V00		VRNET	1	1	1992/240	090405	1995/295	1995/277	SL 36TR M
....										

End of Report. 57 Entries listed

DFSMSrmm Security heading text		Inventory of Volumes in Storage Location REMOTE							PAGE - 00003	
EDGRPT06 -----									DATE - 95285	
Volume		BIN	Creating	Vol-	DSN-	Create	Create	Expiration	Date	Rec. V
Serial	Data Set Name	Number	Jobname	Seq.	Seq.	Date	Time	Date	stored	LBL Fmt S
SC1195	SCHLUM.RMMDEMO.MMOVE.VOL1	000050	RMMTEST1	1	1	1992/265	093450	1995/059	1995/059	SL 18TR M
SC1196	SCHLUM.RMMDEMO.MMOVE.VOL4	000055	RMMTEST4	1	1	1992/265	093439	1995/059	1995/059	SL 18TR M
68059C	SCHLUM.TMS.DATA	000002		1	1	1995/086	153951	1995/100	1995/142	SL 18TR U
68059C	SCHLUM.TMS.DATA	000002		1	1	1995/086	153951	1995/100	1995/142	SL 18TR U

End of Report. 4 Entries listed

Figure 41. Sample REPORT06 Output: Inventory of Volume Serial Number by Location

## REPORT07: Inventory of Data Set Names by Location

REPORT07, as shown in Figure 42 on page 62, includes all volumes residing in one of the DFSMSrmm built-in storage locations or installation-defined storage locations. REPORT07 is sorted by storage location, data set name, create date, and create time.

The data columns for REPORT07 are:

### **Data Set Name**

The data set name of the first file on the volume.

### **Volume Serial**

The serial number of the volume where the specified data set resides.

### **BIN number**

The assigned specific bin number. An asterisk (\*) following the bin number indicates that the bin number is the old bin number and is displayed when no current bin number is set for the volume.

### **Vol-Seq.**

The volume sequence number.

### **DSN-Seq.**

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

### **Creating Jobname**

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

### **Create Date**

The date when the data set was first written to tape.

### **Create Time**

The time of day when the data set was created.

### **Expiration Date**

The date the volume should be considered for release.

### **Date stored**

The date the volume was last moved from or to a new storage location.

### **LBL**

The tape label type which can be one of the following:

#### **SL**

Specifies an IBM standard label.

#### **AL**

Specifies an ANSI label.

#### **NL**

Specifies no label.

#### **SUL**

Specifies an IBM standard label with user labels.

#### **AUL**

Specifies an ANSI label with user labels.

### **Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

VS

The volume status which can be one of the following:

- S SCRATCH
- M MASTER
- U USER
- I INIT
- E ENTRY

DFSMSrmm Security heading text		Inventory of Data Set Names in Storage Location DISTANT								PAGE - 00001	
EDGRPT07 -----		Volume BIN	Vol-	DSN-	Creating	Create	Create	Expiration	Date	Rec. V	
Data Set Name	Serial Number	Seq.	Seq.	Jobname	Date	Time	Date	stored	LBL	Fmt S	
SSC.VITALREC.BUILD.DB.G0055V00	SC2389		1	VRDB	1993/279	190825	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2388		2	VRDB	1993/279	192928	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2397		3	VRDB	1993/279	194622	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2034		4	VRDB	1993/158	200505	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2019		5	VRDB	1993/158	202356	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.ESA.G0053V00	SC2001		1	VRESA	1993/158	203557	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.ESA.G0053V00	SC2000		2	VRESA	1993/158	205047	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.ESA.G0053V00	SC2011		3	VRESA	1993/158	210806	1995/295	1995/277	SL	36TR M	
SSC.VITALREC.BUILD.ESAS.G0053V00	SC0515		1	VRESAS	1992/240	211341	1995/295	1995/277	SL	36TR M	
....	End of Report. 57 Entries listed										

DFSMSrmm Security heading text		Inventory of Data Set Names in Storage Location REMOTE								PAGE - 00003	
EDGRPT07 -----		Volume BIN	Vol-	DSN-	Creating	Create	Create	Expiration	Date	Rec. V	
Data Set Name	Serial Number	Seq.	Seq.	Jobname	Date	Time	Date	stored	LBL	Fmt S	
SCHLU.RMM.CDS	68059C 000001		1		1995/085	183342	1995/099	1995/142	SL	18TR U	
SCHLU.RMM.CDS	68059D 000002		1		1995/086	153951	1995/100	1995/142	SL	18TR U	
SCHLUM.RMMDemo.MMOVE.VOL1	SC1195 000050		1	RMMTEST1	1992/265	093450	1995/059	1995/059	SL	18TR M	
SCHLUM.RMMDemo.MMOVE.VOL4	SC1196 000055		1	RMMTEST4	1992/265	093439	1995/059	1995/059	SL	18TR M	
	End of Report. 4 Entries listed										

Figure 42. Sample REPORT07 Output: Inventory of Data Set Names by Location

## REPORT08: Inventory of Bin Numbers by Location

REPORT08, as shown in Figure 43 on page 64, includes all volumes residing in one of the three built-in storage locations or installation-defined storage locations. REPORT08 is sorted by storage location, bin number, date stored, and data set name.

The data columns for REPORT08 are:

### **BIN number**

The assigned specific bin number. An asterisk (\*) following the bin number indicates that the bin number is the old bin number and is displayed when no current bin number is set for the volume.

### **Data Set Name**

The data set name of the first file on the volume.

### **Volume Serial**

The serial number of the volume where the specified data set resides.

### **Vol-Seq.**

The volume sequence number.

### **DSN-Seq.**

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.



**Creating Jobname**

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

**Create Date**

The date when the data set was first written to tape.

**Create Time**

The time of day when the data set was created.

**Expiration Date**

The date the volume should be considered for release.

**Date stored**

The date the volume was last moved from or to a new storage location.

**LBL**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Rec. Fmt**

The volume recording format which can be one of the following:: 18TR, 36TR, 128T, 256T, or blank.

**VS**

The volume status which can be one of the following:

**S** SCRATCH

**M** MASTER

**U** USER

**I** INIT

**E** ENTRY

DFSMsrmm Security heading text		Inventory of BIN numbers in Storage Location DISTANT								PAGE - 00002
EDGRPT08 -----										DATE - 95285
BIN		Volume	Vol-	DSN-	Creating	Create	Create	Expiration	Date	Rec. V
Number	Data Set Name	Serial	Seq.	Seq.	Jobname	Date	Time	Date	stored	LBL Fmt S
000005	SSC.VITALREC.SYSTEM.SS1101.G0051V00	SC2378	2	1	DSS1100#	1993/279	225244	1995/294	1995/277	SL 36TR M
000006	SSC.VITALREC.SYSTEM.SC1101.G0045V00	SC1546	1	1	DSC1101#	1993/011	205040	1995/245	1995/220	SL 36TR M
000007	SSC.VITALREC.SYSTEM.SP110A.G0045V00	SC1548	1	1	DSP110A#	1993/011	205307	1995/245	1995/220	SL 36TR M
000011	SSC.VITALREC.SYSTEM.SR1102.G0043V00	SC0985	1	1	DSR1101#	1992/240	212232	1995/231	1995/206	SL 36TR M
000012	SSC.VITALREC.SYSTEM.SR1101.G0043V00	SC0986	1	1	DSR1101#	1992/240	211023	1995/231	1995/206	SL 36TR M
000013	SSC.VITALREC.SYSTEM.SP110C.G0041V00	SC1918	1	1	DSP110A#	1993/097	211026	1995/217	1995/193	SL 36TR M
000041	SSC.VITALREC.SYSTEM.SP110B.G0044V00	SC0682	1	1	DSP110A#	1992/240	210040	1995/238	1995/213	SL 36TR M
....										
End of Report. 57 Entries listed										

DFSMsrmm Security heading text		Inventory of BIN numbers in Storage Location REMOTE								PAGE - 00003
EDGRPT08 -----										DATE - 95285
BIN		Volume	Vol-	DSN-	Creating	Create	Create	Expiration	Date	Rec. V
Number	Data Set Name	Serial	Seq.	Seq.	Jobname	Date	Time	Date	stored	LBL Fmt S
000002	SCHLUM.TMS.DATA	68059C	1	1		1995/086	153951	1995/100	1995/142	SL 18TR U
000002	SCHLUM.TMS.DATA	68059C	1	1		1995/086	153951	1995/100	1995/142	SL 18TR U
000050	SCHLUM.RMMDemo.MMOVE.VOL1	SC1195	1	1	RMMTEST1	1992/265	093450	1995/059	1995/059	SL 18TR M
000055	SCHLUM.RMMDemo.MMOVE.VOL4	SC1196	1	1	RMMTEST4	1992/265	093439	1995/059	1995/059	SL 18TR M
....										
End of Report. 61 Entries listed										

Figure 43. Sample REPORT08 Output: Inventory of Bin Numbers by Location

## REPORT09: List all Data Set Names Residing in a Loan Location

REPORT09, as shown in Figure 44 on page 65, includes all volumes residing in a LOAN location. REPORT01 is sorted by loan location, data set name, create date, and create time.

The data columns for REPORT09 are:

### Data Set Name

The data set name of the first file on the volume.

### Volume Serial

The serial number of the volume where the specified data set resides.

### Vol-Seq.

The volume sequence number.

### DSN-Seq.

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

### Creating Jobname

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

### Create Date

The date when the data set was first written to tape.

### Create Time

The time of day when the data set was created.

### Expiration Date

The date the volume should be considered for release.

### Volume Ref. Date

The date the volume was last read or last written to.

### LBL

The tape label type which can be one of the following:

- SL** Specifies an IBM standard label.
- AL** Specifies an ANSI label.
- NL** Specifies no label.
- SUL** Specifies an IBM standard label with user labels.
- AUL** Specifies an ANSI label with user labels.

**Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

**VS**

The volume status which can be one of the following:

- S** SCRATCH
- M** MASTER
- U** USER
- I** INIT
- E** ENTRY

**VR**

The vital record status which can be one of the following:

- Y** The volume is retained as a vital record.
- N** The volume is not retained as a vital record.

```

DFSMSrmm Security heading text
EDGRPT09 -----
Inventory of Data Set Names in Loan Location KAYSER
PAGE - 00001
DATE - 95285
-----
Data Set Name Volume Vol- DSN- Creating Create Create Expiration Volume
Serial Seq. Seq. Jobname Date Time Date Ref. Date LBL Fmt S R
-----
SP.$2MAJO.$SMP SC2035 1 7 CUSTPACK 1993/158 111127 1993/179 1993/165 SL * M N
SP.$2MAJO.BATCH SC2035 1 8 CUSTPACK 1993/158 111148 1993/179 1993/165 SL * M N
SP.$2MAJO.LIST3820 SC2035 1 9 CUSTPACK 1993/158 111206 1993/179 1993/165 SL * M N
SP.EFZ#LIBD.CLIST SC2035 1 2 CUSTPACK 1993/158 111040 1993/179 1993/165 SL * M N
SP.EFZ#LIBD.CLIST.FB SC2035 1 3 CUSTPACK 1993/158 111043 1993/179 1993/165 SL * M N
SP.EFZ#LIBD.LOAD SC2035 1 4 CUSTPACK 1993/158 111048 1993/179 1993/165 SL * M N
SP.EFZ#LIBD.MSGS SC2035 1 6 CUSTPACK 1993/158 111123 1993/179 1993/165 SL * M N
SP.EFZ#LIBD.PANELS SC2035 1 5 CUSTPACK 1993/158 111120 1993/179 1993/165 SL * M N
SP.HENKELCS.LIST3820 SC2035 1 11 CUSTPACK 1993/158 111214 1993/179 1993/165 SL * M N
SP.HENKELCS.SCRIPT SC2035 1 10 CUSTPACK 1993/158 111211 1993/179 1993/165 SL * M N
....
End of Report. 15 Entries listed

```

Figure 44. Sample REPORT09 Output: List all Data Set Names that Reside in a Loan Location

## REPORT10: List all Volume Serial Numbers Residing in a Loan Location

REPORT10, as shown in Figure 45 on page 67, includes all volumes residing in a loan location. REPORT10 is sorted by loan location, volume serial number, and data set sequence number.

The data columns for REPORT10 are:

**Volume Serial**

The serial number of the volume where the specified data set resides.

**Data Set Name**

The data set name of the first file on the volume.

**Vol-Seq.**

The volume sequence number.

**DSN-Seq.**

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

**Creating Jobname**

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

**Create Date**

The date when the data set was first written to tape.

**Create Time**

The time of day when the data set was created.

**Expiration Date**

The date the volume should be considered for release.

**Volume Ref. Date**

The date the volume was last read or last written to.

**LBL**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Rec. Fmt**

The volume recording format which can be one of the following:: 18TR, 36TR, 128T, 256T, or blank.

**VS**

The volume status which can be one of the following:

**S** SCRATCH

**M** MASTER

**U** USER

**I** INIT

**E** ENTRY

VR

The vital record status which can be one of the following:

Y The volume is retained as a vital record.

N The volume is not retained as a vital record.

DFSMSrmm Security heading text		Inventory of Volumes in Loan Location KAYSER							PAGE - 00001		
EDGRPT10 -----									DATE - 95285		
Volume		Vol-	DSN-	Creating	Create	Create	Expiration	Volume	Rec.	V V	
Serial	Data Set Name	Seq.	Seq.	Jobname	Date	Time	Date	Ref. Date	LBL	Fmt S R	
SC2035	SSC.HENKEL.CNTL	1	1	CUSTPACK	1993/158	110912	1993/179	1993/165	SL	* M N	
SC2035	SP.EFZ#LIBD.CLIST	1	2	CUSTPACK	1993/158	111040	1993/179	1993/165	SL	* M N	
SC2035	SP.EFZ#LIBD.CLIST.FB	1	3	CUSTPACK	1993/158	111043	1993/179	1993/165	SL	* M N	
SC2035	SP.EFZ#LIBD.LOAD	1	4	CUSTPACK	1993/158	111048	1993/179	1993/165	SL	* M N	
SC2035	SP.EFZ#LIBD.PANELS	1	5	CUSTPACK	1993/158	111120	1993/179	1993/165	SL	* M N	
SC2035	SP.EFZ#LIBD.MSGS	1	6	CUSTPACK	1993/158	111123	1993/179	1993/165	SL	* M N	
SC2035	SP.\$2MAJO.\$SMP	1	7	CUSTPACK	1993/158	111127	1993/179	1993/165	SL	* M N	
SC2035	SP.\$2MAJO.BATCH	1	8	CUSTPACK	1993/158	111148	1993/179	1993/165	SL	* M N	
SC2035	SP.\$2MAJO.LIST3820	1	9	CUSTPACK	1993/158	111206	1993/179	1993/165	SL	* M N	
SC2035	SP.HENKELCS.SCRIPT	1	10	CUSTPACK	1993/158	111211	1993/179	1993/165	SL	* M N	
SC2035	SP.HENKELCS.LIST3820	1	11	CUSTPACK	1993/158	111214	1993/179	1993/165	SL	* M N	
SC2035	SP.HENKELST.SCRIPT	1	12	CUSTPACK	1993/158	111220	1993/179	1993/165	SL	* M N	
SC2035	SP.HENKELST.LIST3820	1	13	CUSTPACK	1993/158	111254	1993/179	1993/165	SL	* M N	
SC2035	SP.HENKELSP.SCRIPT	1	14	CUSTPACK	1993/158	111258	1993/179	1993/165	SL	* M N	
SC2035	SP.HENKELSP.LIST3820	1	15	CUSTPACK	1993/158	111303	1993/179	1993/165	SL	* M N	

End of Report. 15 Entries listed

Figure 45. Sample REPORT10 Output: List all Volume Serial Numbers that Reside in a Loan Location

## REPORT11: List all MultiVolume and MultiFile Sets

REPORT11, as shown in Figure 46 on page 68, includes all multifile volumes and multivolume files. REPORT11 is sorted by the first file on the first volume of the multivolume or multifile set, multidata set multivolume token, volume sequence number, and data set sequence number.

The data columns for REPORT11 are:

### Volume Serial

The serial number of the volume where the specified data set resides.

### Vol-Seq.

The volume sequence number.

### DSN-Seq.

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

### Data Set Name

The data set name of the first file on the volume.

### Expiration Date

The date the volume should be considered for release.

### First Volser

The volume serial number of the first volume in a multivolume data set.

### Prev. Volser

The volume serial number of the preceding volume in a sequence of volumes in a multivolume data set.

### Next. Volser

The volume serial number of the next volume in a sequence of volumes in a multivolume data set.

### Create Userid

The ID of the owner of the volume where the data set resides.

### Creating Jobname

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

### Create Date

The date when the data set was first written to tape.

### Create Time

The time of day when the data set was created.

DFSMsrmm		Security heading text		Multi-Volume/Multi-Data Set Report						PAGE -	00001
EDGRPT11		-----								DATE -	95285
Volume Serial	Vol-Seq.	DSN-Seq.	Data Set Name	Expiration Date	First Volser	Prev. Volser	Next Volser	Create Userid	Creating Jobname	Create Date	Create Time
SC0464	1	1	ADDONS.PANELS		SC0464			SIEGEL		1992/240	084146
SC0464	1	2	ADDONS.SKELS		SC0464			SIEGEL		1992/240	084154
SC0464	1	3	ADDONS.EXEC		SC0464			SIEGEL		1992/240	084159
SC0464	1	4	ADDONS.EXECFB		SC0464			SIEGEL		1992/240	084205
SC0464	1	5	ADDONS.MSGS		SC0464			SIEGEL		1992/240	084218
SC0464	1	6	ADDONS.INITVARS		SC0464			SIEGEL		1992/240	084223
SC0464	1	7	ADDONS.LOAD		SC0464			SIEGEL		1992/240	084226
SC0464	1	8	ADDONS.CNTL		SC0464			SIEGEL		1992/240	084232
SC0464	1	9	ADDONS.SOURCE		SC0464			SIEGEL		1992/240	084238
SC0464	1	10	ADDONS.OBJ		SC0464			SIEGEL		1992/240	084248
SC0695	1	1	BSYSMF.WEEK.G9519V00	1995/315	SC0695		SC0702	STCOPC	SMFWEEK2	1992/240	140404
SC0702	2	1	BSYSMF.WEEK.G9519V00	1995/315	SC0695	SC0695	SC0699	STCOPC	SMFWEEK2	1992/240	140646
SC0699	3	1	BSYSMF.WEEK.G9519V00	1995/315	SC0695	SC0702	SC0704	STCOPC	SMFWEEK2	1992/240	140934
SC0704	4	1	BSYSMF.WEEK.G9519V00	1995/315	SC0695	SC0699	SC0706	STCOPC	SMFWEEK2	1994/207	141217
SC0706	5	1	BSYSMF.WEEK.G9519V00	1995/315	SC0695	SC0704		STCOPC	SMFWEEK2	1992/240	141925
SC1017	1	1	BSYSMF.WEEK.G9520V00	1995/322	SC1017		SC1153	STCOPC	SMFWEEK2	1992/252	155955
SC1153	2	1	BSYSMF.WEEK.G9520V00	1995/322	SC1017	SC1017	SC1120	STCOPC	SMFWEEK2	1992/265	161018
SC1120	3	1	BSYSMF.WEEK.G9520V00	1995/322	SC1017	SC1153		STCOPC	SMFWEEK2	1992/265	162051
....											

End of Report. 5383 Entries listed

Figure 46. Sample REPORT11 Output: List all MultiVolume and MultiFile Sets

## REPORT12: Movement Report Including the First Data Set Name, Sorted by Data Set Name

REPORT12, as shown in Figure 47 on page 70, includes all volumes moving among the three built-in storage locations or installation-defined storage locations.

REPORT12 is sorted by storage location, data set name, create date, and create time.

The data columns for REPORT12 are:

### Data Set Name

The data set name of the first file on the volume.

### Volume Serial

The serial number of the volume where the specified data set resides.

### BIN number

The assigned specific bin number. An asterisk (\*) following the bin number indicates that the bin number is the old bin number and is displayed when no current bin number is set for the volume.

### Vol-Seq.

The volume sequence number.

**DSN-Seq.**

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

**Creating Jobname**

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

**Create Date**

The date when the data set was first written to tape.

**Create Time**

The time of day when the data set was created.

**Expiration Date**

The date the volume should be considered for release.

**Date stored**

The date the volume was last moved from or to a new storage location.

**LBL**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

**VS**

The volume status which can be one of the following:

**S** SCRATCH

**M** MASTER

**U** USER

**I** INIT

**E** ENTRY

DFSMSrmm IBM internal use only		Movement report by Data Set Names							PAGE - 00001				
EDGRPT12 -----		from	location	SHELF	to location	DISTANT	DATE - 95286						
Data Set Name	Volume BIN	Vol-	DSN-	Creating	Create	Create	Expiration	Date					
Serial	Number	Seq.	Seq.	Jobname	Date	Time	Date	stored					
								LBL					
								Rec. V					
								Fmt S					
SSC.VITALREC.BUILD.DB.G0056V00	SC1235	000071	1	1	VRDB	1992/328	190728	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0056V00	SC1227	000070	2	1	VRDB	1992/328	192741	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0056V00	SC1212	000069	3	1	VRDB	1992/328	194337	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0056V00	SC1211	000068	4	1	VRDB	1992/328	200213	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0056V00	SC1326	000083	5	1	VRDB	1992/339	202009	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESA.G0054V00	SC1273	000072	1	1	VRESA	1992/328	203240	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESA.G0054V00	SC1808	000107	2	1	VRESA	1993/097	204650	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESA.G0054V00	SC1807	000106	3	1	VRESA	1993/097	210317	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESAS.G0054V00	SC1278	000073	1	1	VRESAS	1992/328	210910	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESAS.G0054V00	SC1282	000075	2	1	VRESAS	1992/328	212311	1995/302	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESAS.G0054V00	SC1280	000074	3	1	VRESAS	1992/328	213940	1995/302	1995/277	SL	36TR	M	
....													
		End of Report. 51 Entries listed											
DFSMSrmm IBM internal use only		Movement report by Data Set Names							PAGE - 00003				
EDGRPT12 -----		from	location	DISTANT	to location	SHELF	DATE - 95286						
Data Set Name	Volume BIN	Vol-	DSN-	Creating	Create	Create	Expiration	Date					
Serial	Number	Seq.	Seq.	Jobname	Date	Time	Date	stored					
								LBL					
								Rec. V					
								Fmt S					
SSC.VITALREC.BUILD.DB.G0055V00	SC2389	000058*	1	1	VRDB	1993/279	190825	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2388	000055*	2	1	VRDB	1993/279	192928	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2397	000059*	3	1	VRDB	1993/279	194622	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2034	000054*	4	1	VRDB	1993/158	200505	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.DB.G0055V00	SC2019	000053*	5	1	VRDB	1993/158	202356	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESA.G0053V00	SC2001	000050*	1	1	VRESA	1993/158	203557	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESA.G0053V00	SC2000	000049*	2	1	VRESA	1993/158	205047	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESA.G0053V00	SC2011	000052*	3	1	VRESA	1993/158	210806	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESAS.G0053V00	SC0515	000004*	1	1	VRESAS	1992/240	211341	1995/295	1995/277	SL	36TR	M	
SSC.VITALREC.BUILD.ESAS.G0053V00	SC0514	000003*	2	1	VRESAS	1992/240	212810	1995/295	1995/277	SL	36TR	M	
....													
		End of Report. 51 Entries listed											

Figure 47. Sample REPORT12 Output: Movement Report Including the First Data Set Name

## REPORT13: Movement Report Including the First Data Set Name Sorted by Bin Number

REPORT13, as shown in Figure 48 on page 71, includes data set information. REPORT13 is sorted by bin number.

The data columns for REPORT13 are:

### BIN Number

The used bin number of this volume in the reported storage location. An asterisk (\*) following the bin number indicates that the bin number is the old bin number and is displayed when no current bin number is set for the volume.

### Data Set Name

The data set name of the first file on the volume.

### Volume Serial

Volume serial number of the reported volume.

### Vol-Seq.

Volume sequence of the reported volume.

### DSN-Seq.

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

### Creating Jobname

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

### Create Date

Creation date of the reported data set.



**Create Time**

Creation time of the reported data set.

**Expiration Date**

DFSMSrmm expiration date of the reported volume.

**Date stored**

Date that the move for the volume to the reported storage location is confirmed.

**LBL**

The tape label type which can be one of the following:

**SL**

Specifies an IBM standard label.

**AL**

Specifies an ANSI label.

**NL**

Specifies no label.

**SUL**

Specifies an IBM standard label with user labels.

**AUL**

Specifies an ANSI label with user labels.

**Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

**VS**

The volume status which can be one of the following:

**S** SCRATCH**M** MASTER**U** USER**I** INIT**E** ENTRY

DFSMSrmm IBM INTERNAL USE ONLY		Movement report by BIN number								PAGE - 00001		
EDGRPT13 -----		from location DISTANT to location ATL3494E								DATE - 98063		
BIN Number	Data Set Name	Volume Serial	Vol-Seq.	DSN-Seq.	Creating Jobname	Create Date	Create Time	Expiration Date	Date stored	LBL	Rec. Fmt	V S
000001*	SSC.VITALREC.BUILD.PP.G0180V00	Q17032	1	1	VRPP	20/02/1998	132015	25/02/1998	03/03/1998	SL	128T	M
000002*	SSC.VITALREC.BUILD.NET.G0179V00	Q17057	1	1	VRNET	20/02/1998	134031	25/02/1998	03/03/1998	SL	128T	M
000003*	SSC.VITALREC.BUILD.DB.G0187V00	Q17085	1	1	VRDB	20/02/1998	130340	25/02/1998	03/03/1998	SL	128T	M
000004*	SSC.VITALREC.MASTER.JCL.G0174V00	Q17136	1	1	VRMASTER	21/02/1998	024340	26/02/1998	03/03/1998	SL	128T	M
000005*	SSC.VITALREC.BUILD.WWC150.G0056V00	Q17138	1	1	VRWVC150	20/02/1998	141157	25/02/1998	03/03/1998	SL	128T	M
000007*	SSC.VITALREC.BUILD.WWZ38#.G0055V00	Q17139	1	1	VRWWZ38#	20/02/1998	154308	25/02/1998	03/03/1998	SL	128T	M
000008*	SSC.VITALREC.BUILD.WWZ038.G0058V00	Q17140	1	1	VRWWZ038	20/02/1998	175618	25/02/1998	03/03/1998	SL	128T	M
000009*	SSC.VITALREC.BUILD.W3897A.G0031V00	Q17143	1	1	VRW3897A	20/02/1998	203407	25/02/1998	03/03/1998	SL	128T	M
000012*	SSC.VITALREC.BUILD.W3897A.G0031V00	Q17144	2	1	VRW3897A	20/02/1998	234947	26/02/1998	03/03/1998	SL	128T	M
000017*	SSC.VITALREC.BUILD.MVSSMP.G0178V00	Q17145	1	1	VRMVSSMP	20/02/1998	140108	25/02/1998	03/03/1998	SL	128T	M
000019*	SSC.VITALREC.BUILD.WWP004.G0056V00	Q17146	1	1	VRWNP004	20/02/1998	144519	25/02/1998	03/03/1998	SL	128T	M
000020*	SSC.VITALREC.BUILD.WWP115.G0056V00	Q17147	1	1	VRWNP115	20/02/1998	150147	25/02/1998	03/03/1998	SL	128T	M
000021*	SSC.VITALREC.BUILD.W3897B.G0006V00	Q17148	1	1	VRW3897B	21/02/1998	002806	26/02/1998	03/03/1998	SL	128T	M
000022*	SSC.VITALREC.FILTER.SELECT.G0174V00	Q17149	1	1	VRSELECT	21/02/1998	022738	26/02/1998	03/03/1998	SL	128T	M

End of Report. 14 Entries listed

Figure 48. Sample REPORT13 Output: Movement Report Including the First Data Set Name Sorted by Bin Number

## REPORT14: Movement Report Including the First Data Set Name Sorted by Volume Serial Number

REPORT14, as shown in Figure 49 on page 73, includes data sets. REPORT14 is sorted by volume serial number.

The data columns for REPORT14 are:

### **Volume Serial**

The volume serial number of the reported volume.

### **Data Set Name**

The data set name of the first file on the volume.

### **BIN Number**

The used bin number of this volume in the reported storage location. An asterisk (\*) following the bin number indicates that the bin number is the old bin number and is displayed when no current bin number is set for the volume.

### **Vol-Seq.**

Volume sequence of the reported volume.

### **DSN-Seq.**

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

### **Creating Jobname**

The name of the job that created the data set or the name of the job that created the first data set on the volume if the creating jobname field is blank.

### **Create Date**

Creation date of the reported data set.

### **Create Time**

Creation time of the reported data set.

### **Expiration Date**

DFSMSrmm expiration date of the reported volume.

### **Date stored**

Confirm date of the move to the reported storage location.

### **LBL**

The tape label type which can be one of the following:

#### **SL**

Specifies an IBM standard label.

#### **AL**

Specifies an ANSI label.

#### **NL**

Specifies no label.

#### **SUL**

Specifies an IBM standard label with user labels.

#### **AUL**

Specifies an ANSI label with user labels.

### **Rec. Fmt**

The volume recording format which can be one of the following: 18TR, 36TR, 128T, 256T, or blank.

## VS

The volume status which can be one of the following:

- S** SCRATCH
- M** MASTER
- U** USER
- I** INIT
- E** ENTRY

```
DFSMSrmm  IBM INTERNAL USE ONLY
EDGRPT14  -----

Movement report by Volume Serial Number
from location DISTANT to location ATL3494E

PAGE - 00001
DATE - 98063
```

Volume Serial	Data Set Name	BIN Number	Vol-Seq.	DSN-Seq.	Creating Jobname	Create Date	Create Time	Expiration Date	Date stored	Rec. LBL	V Fmt	S
Q17032	SSC.VITALREC.BUILD.PP.G0180V00	000001*	1	1	VRPP	20/02/1998	132015	25/02/1998	03/03/1998	SL	128T	M
Q17057	SSC.VITALREC.BUILD.NET.G0179V00	000002*	1	1	VRNET	20/02/1998	134031	25/02/1998	03/03/1998	SL	128T	M
Q17085	SSC.VITALREC.BUILD.DB.G0187V00	000003*	1	1	VRDB	20/02/1998	130340	25/02/1998	03/03/1998	SL	128T	M
Q17136	SSC.VITALREC.MASTER.JCL.G0174V00	000004*	1	1	VRMASTER	21/02/1998	024340	26/02/1998	03/03/1998	SL	128T	M
Q17138	SSC.VITALREC.BUILD.WWC150.G0056V00	000005*	1	1	VRWVC150	20/02/1998	141157	25/02/1998	03/03/1998	SL	128T	M
Q17139	SSC.VITALREC.BUILD.WWZ38#.G0055V00	000007*	1	1	VRWWZ38#	20/02/1998	154308	25/02/1998	03/03/1998	SL	128T	M
Q17140	SSC.VITALREC.BUILD.WWZ038.G0058V00	000008*	1	1	VRWWZ038	20/02/1998	175618	25/02/1998	03/03/1998	SL	128T	M
Q17143	SSC.VITALREC.BUILD.W3897A.G0031V00	000009*	1	1	VRW3897A	20/02/1998	203407	25/02/1998	03/03/1998	SL	128T	M
Q17144	SSC.VITALREC.BUILD.W3897A.G0031V00	000012*	2	1	VRW3897A	20/02/1998	234947	26/02/1998	03/03/1998	SL	128T	M
Q17145	SSC.VITALREC.BUILD.MVSSMP.G0178V00	000017*	1	1	VRMVSSMP	20/02/1998	140108	25/02/1998	03/03/1998	SL	128T	M
Q17146	SSC.VITALREC.BUILD.WWP004.G0056V00	000019*	1	1	VRWWP004	20/02/1998	144519	25/02/1998	03/03/1998	SL	128T	M
Q17147	SSC.VITALREC.BUILD.WWP115.G0056V00	000020*	1	1	VRWWP115	20/02/1998	150147	25/02/1998	03/03/1998	SL	128T	M
Q17148	SSC.VITALREC.BUILD.W3897B.G0006V00	000021*	1	1	VRW3897B	21/02/1998	002806	26/02/1998	03/03/1998	SL	128T	M
Q17149	SSC.VITALREC.FILTER.SELECT.G0174V00	000022*	1	1	VRSELECT	21/02/1998	022738	26/02/1998	03/03/1998	SL	128T	M

End of Report. 14 Entries listed

Figure 49. Sample REPORT14 Output: Movement Report Including the First Data Set Name Sorted by Volume Serial Number

## REPORT15: Inventory List By Volume Including Volume Count

REPORT15, as shown in Figure 50 on page 74 provides a count of the maximum number of tapes in a multivolume chain. If a volume is not part of a multivolume chain the count is set to 1. REPORT15 is sorted by volume serial number.

The data columns for REPORT15 are:

### Volume Serial

The volume serial number.

### Data Set Name

The data set name of the first file on the volume.

### Vol-Seq.

The sequence number of the volume.

### Vol-Cnt.

The volume count.

### DSN-Seq.

The data set sequence number or the relative position of the data set on the volume if the data set sequence number is blank or zero.

### Create Date

The date when the data set was created.

### Create Time

The time when the data set was first written to tape.

**Vol Scr**

The scratch status of the volume.

**YES**

The volume is scratch.

**NO**

The volume is not scratch.

**Location Name**

The storage location, loan location, or blank if the volume resides in its home location.

**BIN number**

The assigned specific bin number. An asterisk (\*) following the bin number indicates that the bin number is the old bin number and is displayed when no current bin number is set for the volume.

1 DFSMSrmm INTERNAL USE ONLY		Inventory List by Volume Serial							PAGE - 00128
EDGRPT15 -----		Vol-	Vol-	DSN-	Create	Create	Vol	Location	BIN
- Volume	Serial Data Set Name	Seq.	Cnt.	Seq.	Date	Time	Scr	Name	Number
100057	MVSP.DUMP3490.TMCFILE	1	1	1	1999/057	090158	NO		*
105991	PNDDTAPE.CAI.PPOPTION	1	1	1	1999/258	165058	NO		*
105991	PNDDTAPE.TMSCNTL	1	1	2	1999/258	165109	NO		*
105991	PNDDTAPE.TMC.SEQ	1	1	3	1999/258	165112	NO		*
110118	D015436.TMC	1	1	1	1999/209	085902	NO		*
110118	KGRZ.PARMLIB.RMM	1	1	2	1999/209	085909	NO		*
110118	CAI.PPOPTION.OS39025.RMM	1	1	3	1999/209	085911	NO		*
111111	EPIC.VSE.CATALOG	1	1	1	1997/157	001530	NO		*
227658	P110006.BB049500	1	1	1	1996/261	122931	NO		*
227658	P110006.BB048600	1	1	2	1996/261	124306	NO		*
227658	P110006.BB048700	1	1	3	1996/261	132925	NO		*
23A100		1	1			NO			*
302874	DVSP009.TMC.TRANSFER	1	1	1	1999/250	155247	NO		*
302874	DVSP009.VAULT.TRANSFER	1	1	2	1999/250	160719	NO		*
302874	DVSP009.PPOPTION.TRANSFER	1	1	3	1999/250	160724	NO		*
31427		1	1			NO			*
31470	A59G041.NONTMM.TMC	1	1	1	1999/335	150130	NO		*
534223	SYSR.B99.TMS.FFM.T99320	1	1	1	1999/335	154858	NO		*
68059C	BADER.TLMS.RMF	1	1	1	1995/086	153951	NO	REMOTE	000002
700946	SYS2.CAPARM.COPY	1	1	1	1999/258	170249	NO		*
700946	CA1.VPD50.COPY	1	1	2	1999/258	170252	NO		*
700946	CA1.RDS50.COPY	1	1	3	1999/258	170254	NO		*
700946	CA1.TMC.GENER	1	1	4	1999/258	170257	NO		*
701341	DE00501.BD.MASTER	1	1	1	1999/053	105320	NO		*
702641	DE00501.BD.EDGHSKP	1	1	1	1999/071	115433	NO		*
820184		1	1			NO			*
822508		1	1			NO			*
828271		1	1			NO			*
828360		1	1			NO			*
999999	DE00501.TMS.CA1R50.TMC	1	1	1	1999/071	115558	NO		*
999999	TMS.CA1R50.VAULT	1	1	2	1999/074	144505	NO		*
999999	DVSP.CAI.PPOPTION	1	1	3	1999/074	144507	NO		*

End of Report. 32 Entries listed

Figure 50. Sample REPORT15 Output: Inventory List of Volumes Including the Volume Count

---

## Chapter 5. Using DFSMSrmm with DFSORT

You can use DFSORT's multipurpose ICETOOL utility to create reports from the data in DFSMSrmm extract data set, activity report, and System Management Facility (SMF) records.

DFSMSrmm provides sample jobs that use DFSORT, often via ICETOOL, to produce sample reports.

If you are not familiar with DFSORT and ICETOOL, or just want to learn more about them, a good starting place is the DFSORT home page on the Web at <http://www.ibm.com/storage/dfsor/>. The DFSORT home page has papers and examples you can browse, links to the online DFSORT books, tips, and more. You can browse or download an ICETOOL mini-user guide, learn about the major features of DFSORT Release 14, see answers to frequently asked questions, and so on. For a tutorial on using DFSORT and ICETOOL, see *Getting Started with DFSORT Release 14*. For complete details about DFSORT and DFSORT's ICETOOL, see *DFSORT Application Programming Guide Release 14*. You can access both of these books online from the DFSORT home page.

---

### Using DFSORT's ICETOOL

You can use the DFSMSrmm-supplied samples without modification or use them as examples to produce specific customized reports from DFSMSrmm information. You can change the DFSORT or ICETOOL control statements and job steps to create reports for your installation. Consider these things that you can do to the samples for use in your installation.

#### JOB card

You might submit jobs from TSO and have your system automatically generate a job card for you. If a job card is not automatically generated, you need to replace the commented job card with one acceptable on your system.

#### Work Space

DFSORT and ICETOOL can generally automatically allocate any resources they need, such as work space, storage, Hiperspace™, dataspace, and so on. The resources allocated are based on system and data set information and the DFSORT installation defaults specified by your site. However, if necessary, you can change the resources used by DFSORT and ICETOOL in a variety of ways including:

- Specifying run-time options for the type and maximum number of dynamically allocated work data sets, the maximum amount of storage, Hiperspace or dataspace, and so on. For example, you can specify:

```
//DFSPARM DD *  
  OPTION DYNALLOC=(3390,8)  
/*
```

to tell DFSORT or ICETOOL to allocate a maximum of eight work data sets on 3390 devices (instead of the IBM-supplied default of three work data sets on SYSDA devices).

- Specifying JCL work data sets. For example, you can specify:

```
//SORTWK01 DD UNIT=SYSDA,SPACE=(CYL,(50,50))  
//SORTWK02 DD UNIT=SYSDA,SPACE=(CYL,(50,50))
```

to tell DFSORT or ICETOOL to use the two JCL work data sets specified, instead of dynamically allocating the work data sets.

**DSN keyword**

You do not need to change the DSN keyword where temporary data set names are specified. When a specific data set name is used, you should change the name to one that can be used in your installation.

**SPACE keyword**

You can change the SPACE keyword values. Examine your installation's tape activities and perform trial runs to arrive at suitable values for primary and secondary space.

**UNIT keyword**

You can change the UNIT name used as required. Specify a value that will allocate to a DASD device type.

## Creating DFSMSrmm SMF Audit Record Reports

Figure 51 on page 77 shows the sample JCL for processing SMF records. The sample uses the following information taken from the volume details within the SMF record.

- Volume serial number
- Volume creation date
- Date that the volume information last changed
- User ID that last changed the volume information by command
- Date that the volume information was last changed by an RMM TSO subcommand request

The report also includes the following information taken from the SMF record header:

- Time
- Date
- System identification
- RACF user ID
- Activity type

The ICETOOL JCL example in Figure 51 on page 77 does the following:

1. Uses a COPY operator to create a data set with just the SMF audit (X'FC') volume records (V) for use by the subsequent DISPLAY operator.
2. Uses a DISPLAY operator to create an SMF audit record for the V records.

**Note:** You must add 1 to an SMF field offset to get its position for DFSORT and ICETOOL statements. Alternatively, you can use DFSORT symbols, which map the DFSMSrmm fields you need, freeing you from having to know their positions, lengths, and formats. See "Using Symbols with DFSORT's ICETOOL and DFSORT" on page 79 for more information about using symbols.

```

//STEP1 EXEC PGM=ICETOOL
//TOOLMSG DD SYSOUT=* ICETOOL MESSAGES
//DFSMSG DD SYSOUT=* DFSORT MESSAGES
//RAWSMF DD DSN=ACCT.SJFEMVSA.D921102.T230004,DISP=SHR
//RMMV DD DSN=&&TEMPV,REFDD=*.RAWSMF
//VREPT DD SYSOUT=*
//TOOLIN DD * CONTROL STATEMENTS
* FIND THE RMM SMF AUDIT 'VOLUME' RECORDS
COPY FROM(RAWSMF) TO(RMMV) USING(SMFV)
* DISPLAY VARIOUS FIELDS FROM THE SMF HEADER AND VOLUME SECTION
DISPLAY FROM(RMMV) LIST(VREPT) -
TITLE('DFSMSrmm - SMF Audit Records') DATE TIME PAGE -
BLANK -
* SMF HEADER FIELDS
HEADER('TIME') ON(8,3,HEX) -
HEADER('DATE') ON(11,4,PD) -
HEADER('SYS') ON(15,4,CH) -
HEADER('USER') ON(35,8,CH) -
HEADER('ACT') ON(43,1,CH) -
* VOLUME SECTION FIELDS
HEADER('VOLUME') ON(46,6,CH) -
HEADER('CREATE') ON(104,4,PD) -
HEADER('LASTCH') ON(128,4,PD) -
HEADER('LASTUSER') ON(136,8,CH) -
HEADER('LASTSYS') ON(144,8,CH) -
HEADER('LASTUSCH') ON(152,4,PD)
//SMFVCTL DD *
* The X'FC' is the SMF record number specified to RMM SMFAUD
* The X'FC' is record number 252 - Change it to your record number
INCLUDE COND=(6,1,BI,EQ,X'FC',AND,
44,1,CH,EQ,C'V')
OPTION VLSHRT
/*

```

Figure 51. Sample ICETOOL JCL for Processing SMF Records

See Figure 57 on page 85 for the equivalent sample JCL using DFSORT symbols.

Figure 52 shows sample report output for the SMF audit report.

```

RMM SMF AUDIT RECORDS          11/05/97          07:40:13          - 1 -

```

TIME	DATE	SYS	USER	ACT	VOLUME	CREATE	LASTCH	LASTUSER	LASTSYS	LASTUSCH
63202A	97307	MVSA	HOLLYYAM	C	ND0335	1997058	1997307	TAPELIB	MVSA	1997058
6321B6	97307	MVSA	YAEGER	C	ND0336	1997058	1997307	TAPELIB	MVSA	1997058
6321B8	97307	MVSA	WILLITS	C	ND0339	1997058	1997307	TAPELIB	MVSA	1997058
.	.	.	.	.	.	.	.	.	.	.
853C1A	97307	MVSA	YAEGER	C	ND0338	1997035	1997307	TAPELIB	MVSA	1997035
863C24	97307	MVSA	JMB01	C	NB1876	1996271	1997307	TAPELIB	MVSA	1996271

Figure 52. Sample DISPLAY Report (VREPT DD)

## Producing Commands and Reports from the Extract Data Set

This example shows two tasks you can perform with ICETOOL. The examples use the DFSMSrmm extract data set as input. In this case, the volume extract records as described in “Appendix B. DFSMSrmm Mapping Macros” on page 185 are used to:

- Create RMM CHANGEVOLUME subcommands to set a release action of REPLACE for all tapes with temporary I/O errors higher than a specific number. For this example, an arbitrary value of 100 is used for the temporary I/O error limit.
- Create a report showing the number of tapes with each security level classification.

The ICETOOL JCL example in Figure 53 does the following:

1. Uses a COPY operator to create a data set with just the extract volume (V) records for use by subsequent operators.
2. Uses a COPY operator to create CHANGEVOLUME commands for those V records with temporary I/O counts greater than 100.
3. Uses an OCCUR operator to create a security level distribution report for the V records.

**Note:** You must add 5 to an extract field offset shown in “Appendix B. DFSMSrmm Mapping Macros” on page 185 to get its position for DFSORT and ICETOOL statements. Alternatively, you can use DFSORT symbols, which map the DFSMSrmm fields you need, freeing you from having to know their positions, lengths, and formats. See “Using Symbols with DFSORT’s ICETOOL and DFSORT” on page 79 for more information about using symbols.

```
//STEP1 EXEC PGM=ICETOOL
//TOOLMSG DD SYSOUT=*
//DFSMSG DD SYSOUT=*
//IN1 DD DSN=RMM.MASTER.EXTRACT,DISP=SHR
//VRCDS DD DSN=&&IN2,UNIT=SYSDA,SPACE=(1,(1000,1000),RLSE),
// DISP=(,DELETE),DSORG=PS,RECFM=VB,AVGREC=K
//COMMANDS DD DSN=RMM.RLSE.CLIST,DISP=(,CATLG),
// LRECL=255,RECFM=VB,DSORG=PS,AVGREC=K,SPACE=(255,(1,1),RLSE)
//OCCRPT DD SYSOUT=*
//TOOLIN DD *
* GET JUST THE 'V' RECORDS
COPY FROM(IN1) TO(VRCDS) USING(CTL2)
* SET UP THE CHANGEVOLUME COMMANDS FOR TAPES WHICH EXCEED
* THE TEMPORARY I/O ERROR LIMIT OF 100
COPY FROM(VRCDS) TO(COMMANDS) USING(CMDT)
* PRINT REPORT SHOWING SECURITY LEVEL DISTRIBUTION
OCCUR FROM(VRCDS) LIST(OCCRPT) BLANK -
DATE TITLE('Security Level Distribution Report') -
HEADER('Security Level') ON(280,4,CH) -
HEADER('Number in Level') ON(VALCNT)
//CTL2CNTL DD *
* INCLUDE ONLY 'V' RECORDS
INCLUDE COND=(5,1,CH,EQ,C'V')
//CMDTCNTL DD *
* INCLUDE ONLY RECORDS WITH TEMPORARY I/O ERROR COUNTS
* GREATER THAN 100
INCLUDE COND=((371,4,CH,GT,C' 100'),OR,(375,4,CH,GT,C' 100'))
* BUILD CHANGEVOLUME COMMANDS
OUTREC FIELDS=(1,4,C'RMM CV ',9,6,
C' RLSE(REPLACE)')
```

Figure 53. Sample ICETOOL JCL for Processing Extract Records

Figure 54 on page 79 shows sample CHANGEVOLUME command output.



```

RMM CV AB1863 RLSE(REPLACE)
RMM CV CD0001 RLSE(REPLACE)
RMM CV 119063 RLSE(REPLACE)
RMM CV CD0004 RLSE(REPLACE)
RMM CV CD0007 RLSE(REPLACE)
RMM CV CD0008 RLSE(REPLACE)
RMM CV CD0009 RLSE(REPLACE)
RMM CV CD0011 RLSE(REPLACE)
RMM CV CD0015 RLSE(REPLACE)

```

Figure 54. Sample RMM TSO Subcommands (COMMANDS DD)

Figure 55 shows sample report output.

```

11/05/97      Security Level Distribution Report

Security Level  Number in Level
-----
IC              108
ICR             9094
IUO             310
NONE            4006
UNC              9
UNC             192

```

Figure 55. Sample OCCUR Report (OCCRPT DD)

---

## Using Symbols with DFSORT's ICETOOL and DFSORT

You can use DFSORT symbols in ICETOOL and DFSORT jobs to create reports for DFSMSrmm-managed resources. DFSORT symbols can increase your productivity by automatically providing the positions, lengths, and formats of the fields and the values of the constants associated with particular DFSMSrmm data you are processing with ICETOOL and DFSORT.

IBM's development teams for DFSMS™ and DFSORT have already created DFSORT symbols, and sample jobs that use them, for data associated with DFSMSrmm. You can obtain these IBM-created materials as described in "Appendix A. DFSORT Symbols for Use with DFSMSrmm" on page 127. Then you can substitute the symbols for the DFSMSrmm fields you need into ICETOOL and DFSORT jobs.

This section provides an overview of how DFSORT symbols work in general, as well as a specific example of their use for DFSMSrmm reporting. For additional information on DFSORT symbols, see *DFSORT Application Programming Guide Release 14* and *Getting Started with DFSORT*.

### How Symbols Help

Symbols can help standardize your DFSORT applications and increase your productivity. You can use a symbol anywhere you can use a field or constant in any DFSORT control statement or ICETOOL operator. DFSORT symbols can be up to 50 characters, are case-sensitive and can include underscore characters. Thus, you can create meaningful, descriptive names for your symbols, such as Price\_of\_Item, making them easy to remember, read, and understand.

A field symbol defines a field in terms of its position, length, and format. A constant symbol defines a constant in terms of its literal, numeric or bit value. Once you

make a symbol available, you free yourself from the sometimes tedious process of figuring out its position, length, format or value. No more confusion over offsets versus positions and whether to add 4 for the record descriptor word (RDW). No more recoding positions in statements for multiple DFSORT and ICETOOL jobs when you add, delete, or rearrange fields in your data sets.

## Using Symbols

To use symbols with DFSORT and ICETOOL jobs, you just:

1. Create or obtain DFSORT symbol data sets that describe the data you want to process. Symbol data sets contain symbols that map the fields in your records, and constants used for comparisons, titles, headings, and so on. The symbols are specified in DFSORT's simple but flexible SYMNames statement format, which is described in "SYMNames Statements" on page 82. You can easily add, delete, or modify symbols using an editor, such as ISPF EDIT.
2. Include a SYMNames DD statement specifying the symbol data sets you want to use. You can use SYMNames to specify one symbol data set or many concatenated symbol data sets.
3. Use the symbols from SYMNames in DFSORT control statements and ICETOOL operators. You can mix symbols (for example, Last\_Name) with regular fields (for example, 20,5,CH) and constants (for example, C'Yaeger').

DFSORT reads SYMNames and uses the symbols it contains to transform your "statements with symbols" into "statements without symbols" by performing symbol substitution. DFSORT will then use the transformed statements (that is, the statements without symbols) as if you had specified them directly.

Typically, you would set up a symbol data set to map the record layout (that is, the fields and constants) of each data set you process frequently with DFSORT or ICETOOL. For example, Figure 56 on page 81 shows a sample symbol data set named ACCOUNTS.SYMBOLS, which contains symbols for a variable-length (VB) data set named ACCOUNTS. You would use the symbols from ACCOUNT.SYMBOLS in DFSORT and ICETOOL statements that process ACCOUNTS. Then, any time you changed the record layout of ACCOUNTS (for example, by rearranging fields), you would make a corresponding change to ACCOUNTS.SYMBOLS. That way, you wouldn't have to change your jobs that use ACCOUNTS when you changed its record layout. DFSORT would use your symbols to automatically give you the correct new positions. This would save you time and help you avoid errors.

```

* Symbols for the fields and constants of ACCOUNTS
RDW,1,4
  Record_Length,=,2,bi
  SKIP,2
Account_Number,*,8,ch
Balance,*,9,zd
  Gift_Level#1,250000  2500.00
  Gift_Level#2,500000  5000.00

* Branch_Location and Branches are the same field with
* different formats.
Branch_Location,*,2,ch
  California,'01'
  Oregon,'95'
  Washington,'18'
  Arizona,'22'
  Florida,'16'
  Alabama,'25'
  North_Carolina,'92'
Branches,=,2,SS
  West,'01,95,18,22'
  South,'16,25,92'

* First_Name and Last_Name are subfields of Full_Name
Full_Name,*,40,ch
  Last_Name,=,20,ch
  First_Name,*,20,ch
SKIP,2      Not used
Type,*,2,ch
  Checking,'CH'
  Money_Market,'MM'
  Certificate,'CD'
Transactions,*,2,pd
  High_Activity,200
ERR_FLAG,*,1,bi
  Invalid,x'FF'
  Bad_Check,x'80'
  Bad_Credit,x'40'
  No_Funds,x'20'
* Alternate forms for No_Funds
  No_Funds_A,b'..1....'
  No_Funds_B,B'00100000'
Other_Accounts,*  Variable information

```

Figure 56. Symbol Data Set (ACCOUNTS.SYMBOL)

## SYMNAMES and SYMNOUT DD Statements

To use symbol processing in your DFSORT or ICETOOL jobs, just include a SYMNAMES DD statement pointing to one or more symbol data sets you want to use (concatenation is allowed). A symbol data set must have LRECL=80 and RECFM=F or RECFM=FB. It can be a sequential data set, a partitioned member, or a DD \* data set.

To print your original SYMNAMES statements and the symbol table DFSORT builds from them, include a SYMNOUT DD statement. RECFM=FBA and LRECL=121 will be used for the SYMNOUT data set, which would typically be SYSOUT=\*. It's a good idea to include a SYMNOUT data set until your SYMNAMES statements are debugged.

## SYMNAMES Statements

A SYMNAMES statement can be a symbol statement, keyword statement, comment statement (starts with \* in position 1) or blank statement (blanks in positions 1 through 80). ACCOUNTS.SYMBOLS contains all four types of SYMNAMES statements.

### Symbol Statements

Each symbol in SYMNAMES must be described using a symbol statement. A symbol statement looks like this:

```
symbol,value <optional remark>
```

Leading blanks are allowed before the symbol, so use indentation to aid readability. In ACCOUNTS.SYMBOLS, Last\_Name and First\_Name are indented to show they are subfields of Full\_Name, and each constant symbol is indented to show the field symbol it's associated with.

A symbol can be 1 - 50 characters consisting of uppercase and lowercase letters (A - Z, a - z), underscore (\_), dollar sign (\$), at sign (@), and number sign (#). Numbers (0-9) can be used for the second and subsequent characters. Symbols are treated as case-sensitive: Frank, FRANK, and frank are three different symbols.

### Symbol Statements For Constants

A symbol statement for a constant looks like this:

```
symbol,constant <optional remark>
```

You can use any character string, hexadecimal string, bit string or decimal number recognized in DFSORT or ICETOOL statements as the constant. The constant in a symbol statement can be specified as:

- A character string in the form 'string', C'string' or c'string'. You can use the three forms interchangeably. In ACCOUNTS.SYMBOLS, West is a character string.
- A hexadecimal string in the form X'string' or x'string'. You can use the two forms interchangeably. In ACCOUNTS.SYMBOLS, Invalid is a hexadecimal string.
- A bit string in the form B'string' or b'string'. You can use the two forms interchangeably. In ACCOUNTS.SYMBOLS, No\_Funds\_A and No\_Funds\_B are two different types of bit strings.
- A decimal number in the form n, +n or -n. You can use n and +n interchangeably. In ACCOUNTS.SYMBOLS, Gift\_Level#1 is a decimal number.

### Symbol Statements For Fields

A symbol statement for a field looks like this:

```
symbol,field <optional remark>
```

The field in a symbol statement can be specified as p,m,f (position, length, and format), p,m (position and length) or p (position only).

p can be a number, an asterisk (\*) or an equal sign (=).

An \* assigns the next position to p. It allows you to map consecutive fields in your records without having to compute their actual positions or recompute their positions when you add, remove, or rearrange fields. In ACCOUNTS.SYMBOLS, Balance has an \* to show it starts immediately after Account\_Number. An \* can also be used to create mappings of contiguous fields using concatenated symbol data sets.

An = assigns the previous position to p. It allows you to map subfields without specifying their actual positions. In ACCOUNTS.SYMBOLS, Last\_Name has an = to show it starts at the same position as Full\_Name.

An m can be a number or an equal sign (=). An f can be any format recognized in DFSORT or ICETOOL statements or an equal sign (=). An = assigns the previous length or format to m or f, respectively.

You can specify p,m,f for your field symbols and then use them in DFSORT statements where p,m is required. DFSORT will cleverly substitute p,m rather than p,m,f when appropriate. For example, if you use these DFSORT statements with symbols from ACCOUNTS.SYMBOLS:

```
SORT FIELDS=(Type,A)
SUM FIELDS=(Balance)
OUTREC FIELDS=(RDW,Type,15:Balance)
```

DFSORT will transform them to:

```
SORT FIELDS=(66,2,CH,A)
SUM FIELDS=(13,9,ZD)
OUTREC FIELDS=(1,4,66,2,15:13,9)
```

Note that DFSORT automatically substituted p,m,f for the SORT and SUM fields and p,m for the OUTREC fields, as required by its syntax rules.

## Keyword Statements

Keyword statements can help you map the fields in your records by letting you set a starting position, skip unused bytes, and align fields on specific boundaries. The available keyword statements are:

- POSITION,q - sets the next position and previous position to q for use with \* and = in a subsequent field symbol. For example:

```
POSITION,8
Syma,*,2,FI
```

assigns position 8 to Syma.

- POSITION,symbol - sets the next position and previous position to the position of the specified field symbol for use with \* and = in a subsequent field symbol. POSITION,symbol can be used like the Assembler ORG instruction. For example:

```
Sym1,20,10,BI
Sym2,*,18,CH
Sym3,*
POSITION,Sym1
Sym4,*,6,ZD
Sym5,*,4,ZD
```

assigns position 20 to Sym4 (that is, Sym4 and Sym5 overlay Sym1).

- SKIP,n - skips n bytes for use with \* in a subsequent field symbol.
- ALIGN,x - aligns the next position on a specific boundary for use with \* in a subsequent field symbol. x can be H for halfword alignment, F for fullword alignment or D for doubleword alignment.

## Symbols in DFSORT Statements

You can use symbols in the following DFSORT control statements wherever you can use constants ('string', C'string', X'string', B'string', n, +n, or -n) and fields (p,m,f or p,m or p): INCLUDE, INREC, MERGE, OMIT, OUTFIL, OUTREC, SORT and

SUM. Control statements in DFSPARM, SYSIN, SORTCNTL and the parameter list passed from a calling program can all use symbols.

When SYMNames is present, DFSORT transforms control statements with symbols to control statements without symbols, and uses the transformed statements as if you had specified them directly. DFSORT lists both the original statements and the transformed statements.

## **Symbols in ICETOOL Statements**

You can use symbols in the following ICETOOL operators wherever you can use constants ('string', n, +n or -n) and fields (p,m,f or p,m): DISPLAY, OCCUR, RANGE, SELECT, STATS, UNIQUE, and VERIFY. Operators in TOOLIN and in the parameter list passed from a calling program and DFSORT control statements in xxxxCNTL and DFSPARM, can all use symbols.

When SYMNames is present, ICETOOL transforms ICETOOL and DFSORT statements with symbols to statements without symbols, and uses the transformed statements as if you had specified them directly. ICETOOL lists both the original statements and the transformed statements.

## **SMF Audit Report Using DFSORT Symbols**

Figure 57 on page 85 shows a version of the same sample job shown in Figure 51 on page 77. However, this example uses the DFSORT symbols found in the EDGSMFSY symbol mapping described in "Appendix A. DFSORT Symbols for Use with DFSMSrmm" on page 127.

```

//STEP1 EXEC PGM=ICETOOL
//SYMNAMES DD DISP=SHR,DSN=SYS1.MACLIB(EDGSMFSY) SYMBOLS
//TOOLMSG DD SYSOUT=* ICETOOL MESSAGES
//DFSMSG DD SYSOUT=* DFSORT MESSAGES
//RAWSMF DD DSN=ACCT.SJFEMVSA.D921102.T230004,DISP=SHR
//RMMV DD DSN=&&TEMPV,REFDD=*.RAWSMF
//VREPT DD SYSOUT=*
//TOOLIN DD * CONTROL STATEMENTS
* FIND THE RMM SMF AUDIT 'VOLUME' RECORDS
COPY FROM(RAWSMF) TO(RMMV) USING(SMFV)
* DISPLAY VARIOUS FIELDS FROM THE SMF HEADER AND VOLUME SECTION
DISPLAY FROM(RMMV) LIST(VREPT) -
TITLE('DFSMSrmm - SMF Audit Records') DATE TIME PAGE -
BLANK -
* SMF HEADER FIELDS
HEADER('TIME') ON(SMFADTME,HEX) -
HEADER('DATE') ON(SMFADDTE) -
HEADER('SYS') ON(SMFADSID) -
HEADER('USER') ON(SMFADUID) -
HEADER('ACT') ON(SMFADACT) -
* VOLUME SECTION FIELDS
HEADER('VOLUME') ON(MVVOLSER) -
HEADER('CREATE') ON(MVCRDATE) -
HEADER('LASTCH') ON(MVLCDATE) -
HEADER('LASTUSER') ON(MVLCUID) -
HEADER('LASTSYS') ON(MVLCSID) -
HEADER('LASTUSCH') ON(MVUCDATE)
//SMFVCNTL DD *
* The X'FC' is the SMF record number specified to RMM SMFAUD
* The X'FC' is record number 252 - Change it to your record number
INCLUDE COND=(SMFADRTY,EQ,X'FC',
AND,MVTYPE,EQ,MVTYPEID)
OPTION VLSHRT
/*

```

Figure 57. Sample ICETOOL JCL for Processing SMF Records Using Symbols





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## Chapter 6. Using DFSMSrmm-Supplied Sample Reports

DFSMSrmm provides sample jobs you can use to create reports by using DFSORT and DFSORT's ICETOOL. DFSMSrmm ships these jobs in SYS1.SAMPLIB. Some of these reports use DFSORT symbols. See "Chapter 5. Using DFSMSrmm with DFSORT" on page 75 for information about using DFSORT and DFSORT's ICETOOL.

This chapter describes the output format of the report samples, how the output is sorted, the input and output dataset definitions and other details about the reports.

You use the DFSMSrmm extract data set as input to many of the sample reports. See the *OS/390 DFSMSrmm Implementation and Customization Guide* for information about creating the extract data set as part of DFSMSrmm inventory management processing. See "Using the Extract Data Set" on page 6 for information about using the extract data set.

---

## List of Sample Reports

Table 9 shows the DFSMSrmm-supplied reports you can use. The sample JCL to produce the reports is shipped in SYS1.PARMLIB.

Table 9. DFSMSrmm-Supplied Reports

Report	Description
EDGJAUDM	Use EDGJAUDM to reate a monthly archive from weekly audit reports.
EDGJAUDW	Use EDGJAUDW to create a weekly archive from daily audit reports.
EDGJBCAV	Use EDGJBCAV to create RMM ADDVOLUME subcommands from a list of barcode scanned volumes,
EDGJCOMB	Use EDGJCOMB to perform an audit of the tape library using a list of barcode scanned volumes.
EDGJCVB	Use EDGJCVB to create RMM CHANGEVOLUME subcommands for volumes in storage locations that can be used as input to other jobs.
EDGJDSN	Use EDGJDSN to create a report of data sets sorted by data set name.
EDGJNSCR	Use EDGJNSCR to create a report of volumes that have returned to scratch status.
EDGJRACK	Use EDGJRACK to create a report of rack prefixes.
EDGJRECL	Use EDGJRECL to create a report of lost volumes that can be used as input to the EDGJRECV job.
EDGJRECV	Use EDGJRECV to recover lost volumes.
EDGJROWN	Use EDGJROWN to Create a report of owners sorted by name and by department number.
EDGJRVOL	Use EDGJRVOL to create a report of volumes sorted by volume serial number, by rack number, by security level, by owner, and by expiration date.
EDGJSMF	Use EDGJSMF to create a summary of volumes contained in DFSMSrmm SMFAUD SMF records.
EDGJSMFP	Use EDGJSMFP to create a list of SMF records.
EDGJVLT	Use EDGJVLT to create a report of volumes currently in storage locations sorted by volume serial number.
EDGJVLTM	Use EDGJVLTM to create a report of volumes moving to storage locations.
EDGJVOL	Use EDGJVOL to create a report of volumes sorted by volume serial number.

See “Using DFSORT’s ICETOOL” on page 75 for information about customizing the sample jobs.

---

### EDGJAUDM - Create Monthly Archives from Weekly Audit Reports

EDGJAUDM produces audit data sorted by volume and then date so that you can trace actions against a volume from tape creation until tape deletion.

Remember to create the 12 GDGs for the monthly consolidation report. EDGJAUDW archives daily reports into a weekly archive. See “EDGJAUDW - Create Weekly Archives from Daily Audit Reports” on page 90 for information about the EDGJAUDW sample report. Audit data is not saved more than one year.

The sample is intended to produce an archive rather than a report. Therefore the sample output does not include header information.

Run EDGJAUDM once a month.

## EDGJAUDM Input and Output

EDGJAUDM input and output is as follows:

### Input:

The input for EDGJAUDM is SORTIN DD CARD which contains weekly audit reports.

### Output:

The output for EDGJAUDM is:

- SORTOUT DD CARD which contains monthly audit reports sorted by volumes.
- SORTOUT DD CARD which contains monthly audit reports sorted by rack number.
- SORTOUT DD CARD which contains monthly audit reports sorted by user ID.

## EDGJAUDM Customization

Use the following information to customize the EDGJAUDM sample job.

### VSORT SORTIN

The data set names specified on the DSN keywords must be changed to those used on your system. The sample JCL assumes you are using the files created by the sample job EDGJAUDW. EDGJAUDW creates a new generation of a GDG each week. Change the data sets to use the same names as used in EDGJAUDW.

### VSORT SORTOUT

This file identifies the file where you want to store volume information for a single month of data. You can change the data set name as required by your installation. To keep data for one year, define a GDG with LIMIT(12) and specify the data set name in the JCL.

### VSORT SYSIN

No customization should be necessary. If you want the records to be sorted other than by volume, date, and time, you can customize the SORT statement.

The INCLUDE statement is specifically set to process the reports as produced by the sample EDGJAUDW job. If you have changed the format or headings on the reports, you have to change the INCLUDE statement here as well.

### RSORT

The same customization can be performed as described for the VSORT step. In this step, the sample processes rack records.

### USORT

The same customization can be performed as described for the VSORT step. In this step, the sample processes user IDs.

## EDGJAUDM Examples

You can use EDGJAUDM to produce audit reports as shown in Figure 58 on page 90, Figure 59 on page 90, and Figure 60 on page 90.

Figure 58 is an audit report sorted by volume. The column layout is the same as the layout of the corresponding weekly report, as shown in “EDGJAUDW - Create Weekly Archives from Daily Audit Reports”.

111001	111001	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE
111002	111002	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE
111004	111004	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	18/11/1995	U	VITAL	SHELF
111008	111008	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	06/12/1994	U	VITAL	SHELF
111009	111009	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	19/11/1995	U	VITAL	REMOTE
111015	111015	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	21/05/1993	U	VITAL	SHELF
111016	111016	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	29/08/1995	U	VITAL	SHELF
111017	111017	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	30/11/1994	U	VITAL	SHELF
111018	111018	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	22/10/1995	U	VITAL	SHELF
111019	111019	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE
111020	111020	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	14/03/1995	U	VITAL	SHELF
111021	111021	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE

Figure 58. EDGJAUDM: Sample List of a Monthly Audit Report Sorted by Volume

Figure 59 is an audit report sorted by rack number. The column layout is the same as the layout of the corresponding weekly report as shown in “EDGJAUDW - Create Weekly Archives from Daily Audit Reports”.

000001	111001	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE
000002	111019	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE
000003	111137	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:44	E4E4	26/11/1995	U	VITAL	REMOTE
000004	111021	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE
000005	111023	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:35	E4E4	25/06/1994	U	VITAL	REMOTE
000006	111036	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:35	E4E4	25/06/1994	U	VITAL	REMOTE
000007	111044	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:35	E4E4	25/06/1994	U	VITAL	REMOTE
000008	111050	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:36	E4E4	25/06/1994	U	VITAL	REMOTE
000009	111051	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:36	E4E4	25/06/1994	U	VITAL	REMOTE
000010	111066	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:37	E4E4	25/06/1994	U	VITAL	REMOTE
000011	111139	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:44	E4E4	26/11/1995	U	VITAL	REMOTE
000012	111140	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:44	E4E4	26/11/1995	U	VITAL	REMOTE

Figure 59. EDGJAUDM: Sample List of a Monthly Audit Report Sorted by Rack Number

Figure 60 is an audit report sorted by user ID. The column layout is the same as the layout of the corresponding weekly report as shown in “EDGJAUDW - Create Weekly Archives from Daily Audit Reports”.

*HKP	111001	111001	UPDATE	RDRHSME	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE
*HKP	111002	111002	UPDATE	RDRHSME	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE
*HKP	111004	111004	UPDATE	RDRHSME	26/11/1995	01:00:32	E4E4	18/11/1995	U	VITAL	SHELF
*HKP	111008	111008	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	06/12/1994	U	VITAL	SHELF
*HKP	111009	111009	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	19/11/1995	U	VITAL	REMOTE
*HKP	111015	111015	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	21/05/1993	U	VITAL	SHELF
*HKP	111016	111016	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	29/08/1995	U	VITAL	SHELF
*HKP	111017	111017	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	30/11/1994	U	VITAL	SHELF
*HKP	111018	111018	UPDATE	RDRHSME	26/11/1995	01:00:34	E4E4	22/10/1995	U	VITAL	SHELF
*HKP	111019	111019	UPDATE	RDRHSME	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE
*HKP	111020	111020	UPDATE	RDRHSME	26/11/1995	01:00:34	E4E4	14/03/1995	U	VITAL	SHELF
*HKP	111021	111021	UPDATE	RDRHSME	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE

Figure 60. EDGJAUDM: Sample List of a Monthly Audit Report Sorted by User ID

## EDGJAUDW - Create Weekly Archives from Daily Audit Reports

EDGJAUDW produces daily audit reports that use the DFSMSrmm EDGAUD report utility with the AUDREPT DD statement to process the SMFAUD SMF records for the day. See “Using EDGAUD to Create Security and Audit Reports” on page 35 for information about the DFSMSrmm EDGAUD report utility. Audit data is sorted by volume and then date so that actions against a volume can be traced from tape creation until tape deletion. Remember to create the three GDGs for the weekly consolidation report. EDGJAUDM archives weekly reports into a monthly archive. Weekly archive data is kept for one month.

Run EDGJAUDW once a week.

## EDGJAUDW Input and Output

EDGJAUDW input and output is as follows:

### Input:

The input for EDGJAUDW is COLLECT DD CARD which contains daily audit reports.

### Output:

The output for EDGJAUDW is:

- VREPT DD CARD which contains weekly audit records sorted by volumes.
- RREPT DD CARD which contains weekly audit records sorted by rack number.
- UREPT DD CARD which contains weekly audit records sorted by user ID.

## EDGJAUDW Customization

Use the following information to customize the EDGJAUDW sample job.

### TOOLIN

You should not need to customize the statements in the TOOLIN file. To use a different format for the weekly archived reports, you can modify the DISPLAY statement keywords and values to produce a different format. If you change the report format you must also modify the statements in the EDGJAUDM job as they are dependent on report column positions as defined in the EDGJAUDW sample job.

### COLLECT

This file identifies the data sets that contain the EDGAUD AUDREPT report produced during the week. Run EDGAUD each day and create a generation of this data set. Create the GDG with LIMIT(7) if you run EDGAUD every day. You can change the data set name as required by your installation.

### VREPT

This file identifies the data set for volume information for a single week of data. You can change the data set name as required by your installation. To keep data for 4 weeks, define a GDG with LIMIT(4) and specify the data set name in the JCL. The data set names must also be used in the EDGJAUDM job if you are also using EDGJAUDM.

### RREPT

This file identifies the data set for rack and bin information for a single week of data. You can change the data set name as required by your installation. To keep data for 4 weeks, define a GDG with LIMIT(4) and specify the data set name in the JCL. The data set names must also be used in the EDGJAUDM job if you are also using EDGJAUDM.

### UREPT

This file identifies the data set for user information for a single week of data. You can change the data set name as required by your installation. To keep data for 4 weeks, define a GDG with LIMIT(4) and specify the data set name in the JCL. The data set names must also be used in the EDGJAUDM job if you are also using EDGJAUDM.

## EDGJAUDW Examples

The reports you can produce using the EDGJAUDW sample JCL are shown in Figure 61 on page 92, Figure 62 on page 93, and Figure 63 on page 93.

Figure 61 is sorted by volume serial number and date. The sample report includes all SMF audit records for the week.

```
DFSMSrmm - Volume Audit Report Consolidation      11/27/95      17:56:44      - 1 -
```

VOLUME	RACK-#	OWNER	ACTIVITY	USERID	DATE	TIME	SYS	EXP-DATE	SEC	STATUS	LOCATION	LOAN-LOC
111001	111001	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE	
111002	111002	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE	
111004	111004	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	18/11/1995	U	VITAL	SHELF	
111008	111008	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	06/12/1994	U	VITAL	SHELF	
111009	111009	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	19/11/1995	U	VITAL	REMOTE	
111015	111015	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	21/05/1993	U	VITAL	SHELF	
111016	111016	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	29/08/1995	U	VITAL	SHELF	
111017	111017	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:33	E4E4	30/11/1994	U	VITAL	SHELF	
111018	111018	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	22/10/1995	U	VITAL	SHELF	
111019	111019	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE	
111020	111020	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	14/03/1995	U	VITAL	SHELF	
111021	111021	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE	

Figure 61. EDGJAUDW: Sample Report of a Weekly Audit Report Sorted by Volume

The data columns are:

**VOLUME**

The Volume serial number (VOLSER).

**Rack-#**

The rack number which is the identifier that corresponds to a specific volume's shelf location.

**OWNER**

The user ID of the owner of the volume.

**ACTIVITY**

The action that was the cause for this record. ACTIVITY can be: CREATE, DELETE, or UPDATE.

**USERID**

User ID of the person who caused the last change.

**DATE**

The last change date.

**TIME**

The last change time.

**SYS**

The system ID of the system where the last change occurred.

**EXP-DATE**

The date the volume should be considered for release.

**SEC**

The security classification level.

**STATUS**

The status of the volume which can be one of the following:

- VITAL
- SCRATCH
- LOAN
- OPEN
- MASTER
- USER

## LOCATION

The name of the volume's location.

## LOAN.LOC

The loan location which is the location of the volume if it is on loan.

Figure 62 is sorted by rack number and date. The report includes all the SMF audit records for the week.

```
DFSMsrm - Rack Audit Report Consolidation      11/27/95      17:56:52      - 1 -
```

RACK/BIN	VOLUME	OWNER	ACTIVITY	USERID	DATE	TIME	SYS	EXP-DATE	SEC	STATUS	LOCATION	LOAN-L
000001	111001	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE	
000002	111019	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE	
000003	111137	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:44	E4E4	26/11/1995	U	VITAL	REMOTE	
000004	111021	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE	
000005	111023	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:35	E4E4	25/06/1994	U	VITAL	REMOTE	
000006	111036	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:35	E4E4	25/06/1994	U	VITAL	REMOTE	
000007	111044	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:35	E4E4	25/06/1994	U	VITAL	REMOTE	
000008	111050	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:36	E4E4	25/06/1994	U	VITAL	REMOTE	
000009	111051	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:36	E4E4	25/06/1994	U	VITAL	REMOTE	
000010	111066	RDROPCA	UPDATE	*HKP	26/11/1995	01:00:37	E4E4	25/06/1994	U	VITAL	REMOTE	
000011	111139	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:44	E4E4	26/11/1995	U	VITAL	REMOTE	
000012	111140	RDRHSME	UPDATE	*HKP	26/11/1995	01:00:44	E4E4	26/11/1995	U	VITAL	REMOTE	

Figure 62. EDGJAUDW: Sample Report of a Weekly Audit Report Sorted by Rack Number

In addition to the data columns described in Figure 61 on page 92, this sample report includes an additional data column.

## RACK/BIN

The rack number which is the identifier that corresponds to a specific volume's shelf location.

Figure 63 is sorted by user ID and date and time. The report includes all the SMF audit records for the day.

See Figure 61 on page 92 for the description of the data columns used in this report.

```
DFSMsrm - User Audit Report Consolidation      11/27/95      17:56:57      - 1 -
```

USERID	VOLUME	RACK-#	ACTIVITY	OWNER	DATE	TIME	SYS	EXP-DATE	SEC	STATUS	LOCATION	LOAN-LOC
*HKP	111001	111001	UPDATE	RDRHSME	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE	
*HKP	111002	111002	UPDATE	RDRHSME	26/11/1995	01:00:32	E4E4	19/11/1995	U	VITAL	REMOTE	
*HKP	111004	111004	UPDATE	RDROPCA	26/11/1995	01:00:32	E4E4	18/11/1995	U	VITAL	SHELF	
*HKP	111008	111008	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	06/12/1994	U	VITAL	SHELF	
*HKP	111009	111009	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	19/11/1995	U	VITAL	REMOTE	
*HKP	111015	111015	UPDATE	RDROPCA	26/11/1995	01:00:33	E4E4	21/05/1993	U	VITAL	SHELF	
*HKP	111016	111016	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	29/08/1995	U	VITAL	SHELF	
*HKP	111017	111017	UPDATE	RDRHSME	26/11/1995	01:00:33	E4E4	30/11/1994	U	VITAL	SHELF	
*HKP	111018	111018	UPDATE	RDRHSME	26/11/1995	01:00:34	E4E4	22/10/1995	U	VITAL	SHELF	
*HKP	111019	111019	UPDATE	RDROPCA	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE	
*HKP	111020	111020	UPDATE	RDRHSME	26/11/1995	01:00:34	E4E4	14/03/1995	U	VITAL	SHELF	
*HKP	111021	111021	UPDATE	RDROPCA	26/11/1995	01:00:34	E4E4	25/06/1994	U	VITAL	REMOTE	

Figure 63. EDGJAUDW: Sample Report of a Weekly Audit Report Sorted by Userid

---

## EDGJBCAV - Create RMM Subcommands of Barcode Scanned Volumes

EDGJBCAV creates RMM ADDVOLUME subcommands from a list of barcode scanned volumes. Update the TEMPCNTL DD CARD with the format of the barcode scanner and any information that is needed in the RMM ADDVOLUME subcommand. Refer to *OS/390 DFSMSrmm Guide and Reference* for the description of the RMM ADDVOLUME subcommand.

### EDGJBCAV Input and Output

EDGJBCAV input and output is as follows:

**Input:**

The input for EDGJBCAV is BARCODE DD CARD which is a list of barcode scanned volumes.

**Output:**

The output for EDGJBCAV is RMMCMD DD CARD which contains RMM ADDVOLUME subcommands.

### EDGJBCAV Customization

Use the following information to customize the EDGJBCAV sample job.

**BARCODE**

This file identifies the data set that contains the list of volume serial numbers scanned using a barcode reader. The format of the file can vary depending on the barcode software you use. The sample job assumes that the records are RECFM=V or RECFM=VB, and that the first three characters in each record are IBM. The volume serial number starts in column 5. If the files created from the barcode reader are a different format when sent to the host system, you must customize the TEMPCNTL file statements. See Figure 64 on page 95 for a sample of the input for the job.

Set the data set name to the correct data set name.

**RMMCMD**

This is the commands file created by ICETOOL processing. Update the data set name to meet your requirements. If you change the name, remember to also change the data set name on the CLEAN step SYSIN file.

**TEMPCNTL**

This file contains statements that control ICETOOL processing.

The INCLUDE statement ensures that the input records from the barcode reader are the correct format. The OUTREC statement is used to build the RMM subcommands. In this sample we are building RMM ADDVOLUME subcommands to add volumes to DFSMSrmm in USER status. You can customize this statement to build any other subcommands you want.

### EDGJBCAV Examples

Figure 64 on page 95 shows a sample of the input for EDGJBCAV.



```
IBM 111000
IBM 111100
IBM 111010
IBM 111001
```

Figure 64. EDGJBCAV: Sample Input of Barcode-Scanned Volumes

Figure 65 shows a sample of the output for EDGJBCAV. Refer to *OS/390 DFSMSrmm Guide and Reference* for the description of the RMM ADDVOLUME subcommand.

```
RMM ADDVOLUME 111000 STATUS(USER) RETPD(30)
RMM ADDVOLUME 111100 STATUS(USER) RETPD(30)
RMM ADDVOLUME 111010 STATUS(USER) RETPD(30)
RMM ADDVOLUME 111001 STATUS(USER) RETPD(30)
```

Figure 65. EDGJBCAV: Sample Output of RMM ADDVOLUME Subcommands from Barcode Scanned Volumes

---

## EDGJCOMB - Tape Library Audit Using Barcode Scanner

EDGJCOMB compares barcode scanned inventory with the DFSMSrmm extract data set and lists volumes in both the library and the extract data set, volumes in the library only, and volumes in the extract data set only.

### EDGJCOMB Input and Output

EDGJCOMB input and output is as follows:

#### Input:

The input for EDGJCOMB is:

- EXTRACT DD CARD which is the DFSMSrmm extract data set.
- BARCODE DD CARD which contains scanned barcodes.

#### Output:

The output for EDGJCOMB is:

- MATCHED DD CARD which contains volumes that are in the library and the extract data set.
- LIBONLY DD CARD which contains volumes that are in the library only.
- RMMONLY DD CARD which contains volumes that are in the extract data set only.

### EDGJCOMB Customization

Use the following information to customize the EDGJCOMB sample job.

#### BARCODE

This file identifies the data set that contains the list of volume serial numbers scanned using a barcode reader. The format of the file can vary depending on the barcode software you use. The sample job assumes that the records are RECFM=V or RECFM=VB, and that the first three characters in each record are IBM. The volume serial number starts in column 5. If the files created from the barcode reader are a different format when sent to the host system, you must customize the BARCNTL file statements. See Figure 64 for a sample of the input for the job.

Set the data set name to the correct data set name.

## EXTRACT

This is the DFSMSrmm extract data set. Set the data set name to that used on your system.

## BARCNTL

This file contains statements that control ICETOOL processing.

The INCLUDE statement ensures that the input records from the barcode reader are the correct format. The OUTREC statement is used to build a record that contains the volume serial number in column 1. Customize the statements to support the record format produced from your barcode reader.

## EXTRCNTL

This file contains statements that control ICETOOL processing.

The INCLUDE statement ensures that only volume records from the extract data set are selected. The OUTREC statement is used to build a record that contains the rack number in column 1. You should not need to customize this information.

## EDGJCOMB Examples

Figure 66 shows a sample report of volumes found only in the extract data set.

```
EM0000  
EM0001  
EM0002
```

*Figure 66. EDGJCOMB: Sample List of Volumes Found in the Extract Data Set Only*

Figure 67 shows a sample report of volumes found only in the library.

```
WOODYS
```

*Figure 67. EDGJCOMB: Sample List of Volumes in the Location Library Only*

Figure 68 shows a sample report of volumes found in both the library and the extract data set.

```
111000  
111001  
111002  
111003  
111010
```

*Figure 68. EDGJCOMB: Sample List of Volumes in the Library and the Extract Data Set*

---

## EDGJCVB - Create RMM CHANGEVOLUME Subcommands for Volumes in Storage Locations

EDGJCVB reads the DFSMSrmm extract data set and builds a file that contains RMM CHANGEVOLUME subcommands for LOCAL REMOTE, and DISTANT storage locations and a report of the number of volumes by location.

For the description of the RMM CHANGEVOLUME subcommand, refer to the *OS/390 DFSMSrmm Implementation and Customization Guide*.

## EDGJCVB Input and Output

EDGJCVB input and output is as follows:

### Input:

The input for EDGJCVB is EXTRACT DD CARD which is the DFSMSrmm extract data set.

### Output:

The output for EDGJCVB is:

- RMMCVB DD CARD which contains RMM CHANGEVOLUME subcommands.
- RMMCVBS DD CARD which contains the number of volume by location.

To select the location names to use, you can edit the SORT INCLUDE statement for field name RVSTORID.

## EDGJCVB Customization

Use the following information to customize the EDGJCVB sample job.

### VOLSCNTL

The sample job selects all volumes in the built-in storage locations, LOCAL, REMOTE, or DISTANT. To select volumes in other locations, you must update the INCLUDE statement to specify the location names to be selected. If you want to select volumes based on criteria other than the location, you can tailor the INCLUDE statement.

### VOLFCNTL

VOLFCNTL contains two sort statements. The SORT statement ensures that the records are produced in the desired sequence and that the OUTREC statement is used to build the RMM subcommands. You can customize the sort statements if you want to use the job to provide a different subcommand.

## EDGJCVB Examples

Figure 69 shows a sample report that lists the volume in all storage locations.

```
RMM CHANGEVOLUME A00007 LOCATION(DISTANT ) BIN(000001)
RMM CHANGEVOLUME A00008 LOCATION(DISTANT ) BIN(000002)
RMM CHANGEVOLUME A00009 LOCATION(DISTANT ) BIN(000003)
RMM CHANGEVOLUME A00004 LOCATION(LOCAL ) BIN(000001)
RMM CHANGEVOLUME A00005 LOCATION(LOCAL ) BIN(000002)
RMM CHANGEVOLUME A00006 LOCATION(LOCAL ) BIN(000003)
RMM CHANGEVOLUME A00010 LOCATION(REMOTE ) BIN(000001)
RMM CHANGEVOLUME A00011 LOCATION(REMOTE ) BIN(000002)
RMM CHANGEVOLUME A00012 LOCATION(REMOTE ) BIN(000003)
```

*Figure 69. EDGJCVB: Sample Output of RMM CHANGEVOLUME Subcommands for Volumes in Storage Locations*

Figure 70 on page 98 shows a sample report of volumes by location and the number of each volume in each location.

LOCATION	COUNT
-----	-----
DISTANT	3
LOCAL	3
REMOTE	3

Figure 70. EDGJCVB: Sample Report of Volume Counts by Location

The data columns are:

**LOCATION**

The storage location names.

**COUNT**

The number of volumes by location.

---

## EDGJDSN - Create a Data Set Report Sorted by Data Set Name

EDGJDSN reads the DFSMSrmm extract data set and builds a report of data sets, sorted by dataset name and the number of datasets per status (SCRATCH or PRIVAT).

### EDGJDSN Input and Output

EDGJDSN input and output is as follows:

**Input:**

The input for EDGJDSN is EXTRACT DD CARD which is the DFSMSrmm extract data set.

**Output:**

The output for EDGJDSN is:

- RMMDSN DD CARD which contains data sets sorted by name.
- RMMDSNS DD CARD which contains the number of data sets by status.

### EDGJDSN Customization

Use the following information to customize the EDGJDSN sample job.

**TOOLIN**

You can customize the report produced by modifying the DISPLAY statement to change column headers and the field symbolic names to be used.

### EDGJDSN Examples

Figure 71 on page 99 shows a sample report of data sets that are sorted by data set name. The sample report includes all data sets.

DSNAME	VOLSER	DSEQ	VSEQ	CRDATE	MCLASS	VRSVAL	STATUS
DISTANT.REPORT.DS007	A00007	1	1	1995/10/09			PRIVATE
DISTANT.REPORT.DS0081	A00008	1	1	1995/10/09			PRIVATE
DISTANT.REPORT.DS0082	A00008	2	1	1995/10/09			PRIVATE
DISTANT.REPORT.DS0091	A00009	1	1	1995/10/09			PRIVATE
DISTANT.REPORT.DS0092	A00009	2	1	1995/10/09			PRIVATE
DISTANT.REPORT.DS0093	A00009	3	1	1995/10/09			PRIVATE
ICETOOL.NSCR.TEST01	A00101	1	1	1995/10/11			SCRATCH
ICETOOL.NSCR.TEST01	A01001	1	1	1995/10/11			SCRATCH
ICETOOL.NSCR.TEST01	V00001	1	1	1995/10/11			SCRATCH
ICETOOL.NSCR.TEST01	A00101	1	1	1995/10/11			PRIVATE
ICETOOL.NSCR.TEST01	A01001	1	1	1995/10/11			PRIVATE
ICETOOL.NSCR.TEST01	V00001	1	1	1995/10/11			PRIVATE
ICETOOL.NSCR.TEST02	A00102	1	1	1995/10/11			SCRATCH
ICETOOL.NSCR.TEST02	A01002	1	1	1995/10/11			SCRATCH
ICETOOL.NSCR.TEST02	V00002	1	1	1995/10/11			SCRATCH
MV.MD.DS0192	A00020	1	2	1995/10/09			PRIVATE
MV.MD.DS0201	A00020	2	2	1995/10/09			PRIVATE

Figure 71. EDGJDSN: Sample Report of Data Sets Sorted by Name

The data columns are:

**DSNAME**

The name of the data set.

**VOLSER**

The volume serial number.

**DSEQ**

The data set sequence number on the volume.

**VSEQ**

The volume sequence number for this dataset.

**CRDATE**

The creation date of the data set.

**MCLASS**

The SMS management class.

**VRSVAL**

The vital record specification management value.

**STATUS**

Status of the data set which can be one of the following:

- PRIVATE
- SCRATCH

Figure 72 shows a sample report of data sets by status.

STATUS	COUNT
PRIVATE	11
SCRATCH	6

Figure 72. EDGJDSN: Sample Report of Data Set Counts by Status

The data columns are:

**STATUS**

The status of the data sets which can be one of the following:

- PRIVATE
- SCRATCH

**COUNT**

The number of data sets by status

---

## EDGJNSCR - Create a Report of Volumes Returned to Scratch

EDGJNSCR compares the current DFSMSrmm extract data set with an old DFSMSrmm extract data set and creates a report of new scratch volumes and the number of scratch volumes per media name.

### EDGJNSCR Input and Output

EDGJNSCR input and output is as follows:

**Input:**

The input for EDGJNSCR is:

- EXTRACT DD CARD which is the current DFSMSrmm extract data set.
- EXTROLD DD CARD which is the old DFSMSrmm extract data set.

**Output:**

The output for EDGJNSCR is:

- RMMSR DD CARD which contains volumes sorted by volume serial number.
- RMMSCRS DD CARD which contains volume count by media name.

### EDGJNSCR Customization

Use the following information to customize the EDGJNSCR sample job.

**TOOLIN**

You can customize the report produced by modifying the DISPLAY statement to change column headers and the record offsets to be used. The sample includes some commented statements for fields that you might want to include in your reports. You can include these fields as long as you remove others to stay within the ICETOOL record limit of 121 characters per report line.

**VOLFCNTL**

In some cases, to modify the report you must also modify the OUTREC statement in this file to include other fields within volume record in the DFSMSrmm extract data set. There is no limit to the size of the records built by the OUTREC statement, other than system limits.

### EDGJNSCR Examples

Figure 73 on page 101 is sorted by volume serial number and lists only new scratch volumes.

```

DFSMSrmm - New Scratch Volumes      12/11/95      15:08:16      - 1 -
VOLSER  DSNAME                      SCR DATE  VSEQ  JCL EXPDT  STATUS  LOCATION  MEDIANM
-----  -----
111977  CSSM.BACKUP.ALLSDSPS.G0299V00  11/12/1995  1    16/12/1995  SCRATCH  SHELF     TAPE
112052  CSSM.BACKUP.ALLSDSPS.G0297V00  07/12/1995  1    12/12/1995  SCRATCH  SHELF     3480
112094  DBDC.DUMP.V8SCI00.G0289V00    07/12/1995  1    22/12/1995  SCRATCH  SHELF     TAPE
112096  RHSM.BACKTAPE.DATASET        07/12/1995  1    SCRATCH     SHELF     TAPE
112195  DBDC.DUMP.V8SCI00.G0289V00    07/12/1995  2    22/12/1995  SCRATCH  SHELF     TAPE
112198  CSSM.BACKUP.ALLSDSPS.G0298V00  09/12/1995  1    14/12/1995  SCRATCH  SHELF     3490
112251  DBDC.DUMP.V8SIM01.G0298V00    07/12/1995  1    22/12/1995  SCRATCH  SHELF     TAPE
112255  DBDC.DUMP.V8SIM01.G0298V00    07/12/1995  2    22/12/1995  SCRATCH  SHELF     TAPE
112270  RHSM.HMIGTAPE.DATASET        07/12/1995  1    SCRATCH     SHELF     3480
112271  DBDC.DUMP.V8BASE3.G0043V00    07/12/1995  1    22/12/1995  SCRATCH  SHELF     3490
112291  DBDC.DUMP.V8BASE3.G0043V00    07/12/1995  2    22/12/1995  SCRATCH  SHELF     3490

```

Figure 73. EDGJNSCR: Sample Report of New Scratch Volumes

The data columns are:

**VOLSER**

The volume serial number.

**DSNAME**

The first file data set name.

**SCR DATE**

The scratch date which is the date the volume was assigned to scratch status.

**VSEQ**

The volume sequence number.

**JCL EXPDT**

The original expiration date.

**STATUS**

The status of the volume.

**LOCATION**

The volume's current location.

**MEDIANM**

The media name which is the value that describes the shape of the media.

Figure 74 shows a sample report of the number of scratch volumes by media name.

```

DFSMSrmm - Number of New Scratch Volumes by Media      11/13/95      08:53:56      - 1 -
MEDIANAME  COUNT
-----
VTAPE      6
3480       2
3490       3

```

Figure 74. EDGJNSCR: Sample Report of the Number of New Scratch Media by Media

The data columns are:

**MEDIANAME**

The media name which is the value that describes the shape of the media.

**COUNT**

The number of volumes by media name.

---

## EDGJRACK - Create a Report of Rack Prefixes

EDGJRACK reads the DFSMSrmm extract data set and creates a report of rack prefixes.

### EDGJRACK Input and Output

EDGJRACK input and output is as follows:

**Input:**

The input for EDGJRACK is EXTRACT DD CARD which is the DFSMSrmm extract data set.

**Output:**

The output for EDGJRACK is RMMRACKP DD CARD which contains rack number prefixes.

### EDGJRACK Customization

Use the following information to customize the EDGJRACK sample job.

**TOOLIN**

The OCCUR statement creates a report of prefixes used for rack numbers. It assumes a three character prefix. If you want to report using a different prefix length, you can change the statement. For example, the following partial statement uses a two character prefix.

```
HEADER('RACK PREFIX')    ON(365,2,CH) -
```

**EXTRCNTL**

To customize the fields used for reporting, you can change the INCLUDE and SORT statements. You also have to update the OCCUR statement in TOOLIN to match the field offset that you want to report on. The sample JCL shows additional commented-out fields that you might want to include in your reports. Use these fields to obtain reports on security classification, ownership, or volume prefix.

### EDGJRACK Examples

Figure 75 shows a sample report of rack prefixes and the number of each rack prefix.

```
1DFSMSrmm - Rack Prefixes with Counts / Prefix      12/01/95      06:54:33      - 1 -

RACK PREFIX    NUMBER OF RACKS
-----
A00                35
A01                10
V00                10
1  TOTAL TAPES ALL PREFIXES
-- -----
                    55
```

Figure 75. EDGJRACK: Sample Report of Rack Prefixes with Volume Count

The data columns are:

**RACK PREFIX**

The first three digits of the rack number

**NUMBER OF RACKS**

The number of volumes assigned to racks starting with the prefix



---

## EDGJRECL - Obtain Information about Lost Volumes

EDGJRECL lists DFSMSrmm volume information for identified volumes for a recovery. EDGJRECL uses an old extract data set which contains all information on volumes no longer in the DFSMSrmm control data set.

Use the DFSMSrmm recovery jobs to recover small sets of volumes that are accidentally deleted where too much new data would be lost by recovering the entire control data set.

### EDGJRECL Input and Output

EDGJRECL input and output is as follows:

#### Input:

The input for EDGJRECL is:

- IN1 DD CARD which is a list of tape volumes to be recovered. IN1 contains a list of volume numbers with the volume Number starting in column 2.
- IN2 DD CARD which is the old DFSMSrmm extract data set that contains information about volumes before they were deleted.

#### Output:

The output for EDGJRECL is FINAL DD CARD which contains a list of DFSMSrmm volume information.

### EDGJRECL Customization

Use the following information to customize the EDGJRECL sample job. This job builds a file containing most of the extract data set volume records. You can use the information to build RMM subcommands to add back the volumes.

### EDGJRECL Examples

Figure 76 shows a sample report of lost volumes.

A00023	1995/10/10004452D65MVS6	1995/10/15*	N	2	0	0
A00024	1995/10/10004452D65MVS6	1995/10/15*	N	2	0	0

Figure 76. EDGJRECL: Sample Report of a List of Lost Volumes

The output starts with the volume serial number. The sequence of the columns corresponds to the extract data set volume record EDGRVEXT described in “Extract Data Set Volume Report Record: EDGRVEXT” on page 198.

---

## EDGJRECV - Recover Lost Volumes

EDGJRECV creates RMM ADDVOLUME subcommands to recover identified deleted volumes. EDGJRECV uses an old extract data set that contains all information on deleted volumes.

The DFSMSrmm recovery jobs are used to recover small sets of volumes that are accidentally deleted when too much new data would be lost by recovering the entire control data set.

If you have an extract data set created with a date format other than American date format, change the JCL for the format you use.

## EDGJRECV Input and Output

EDGJRECV input and output is as follows:

### Input:

The input for EDGJRECV is:

- IN1 DD CARD which is the lost volume file. IN1 contains a list of the rack numbers for the volumes to be recovered. It must be a VB data set (CLIST). Rack numbers start in column 2.
- IN2 DD CARD which is the old DFSMSrmm extract data set. IN2 contains information about volumes before they were lost. The extract data set uses American date format.

### Output:

The output for EDGJRECV is COMMANDS DD CARD which is a CLIST of RMM ADDVOLUME subcommands.

## EDGJRECV Customization

Use the following information to customize the EDGJRECV sample job.

### ASMAM35 SYSIN

This file is the sample E35FILL exit source code. It is used to perform special processing on some fields of the subcommands that are built. You can avoid using the E35FILL exit source code by removing the MODS statement in the CMDTCNTL file at the end of the sample job.

If you change the subcommand built by the STEP1 job step, you must also consider changing the E35FILL exit source code.

### IN1

The file contains the rack numbers of the volumes to be recovered. The file must be variable length record format.

### COMMANDS

After execution, the COMMANDS file contains the DFSMSrmm subcommands you can use to add the volumes back into the DFSMSrmm control data set. Review the subcommands that are built and edit them to specify any additional operands or values you want.

### CMDTCNTL

This field contains a sort OUTREC statement that is used to build the RMM ADDVOLUME subcommands. It includes comments that describe the fields that are used and the processing that is performed on them. The sample assumes that the input records in the DFSMSrmm extract data set in file IN2 are generated using DATEFORM(A), which is American date format. If your extract data set uses a different date format you must customize the OUTREC statements. Use the commented statements that support ISO and European date formats in place of the default format. Both assigned date and expiration date are processed.

If you change the subcommand that is built, you also must change the E35FILL source code included in the sample. To prevent the E35FILL exit from being used, which is often useful when you are testing updated code, comment out the sort MODS statement.

## EDGJRECV Examples

Figure 77 on page 105 shows a sample of the RMM ADDVOLUME subcommands produced by this report. You can use the subcommand output in jobs to add the lost

volumes back into the DFSMSrmm control data set. See *OS/390 DFSMSrmm Guide and Reference* for information about the RMM ADDVOLUME subcommand and the operands you can specify with the subcommand.

```

RMM ADDVOLUME 111000 STATUS(MASTER ) RACK(111000) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS ) ASDATE(1995/015) ASTIME(200126)
  RELEASEACTION(SCRATCH ) EXPDT(1995/071)
  OWNERACCESS(ALTER ) SECLEVEL(U ) OWNER(RDRHSME )
  DESCRIPTION(' ')
  ACCOUNT(' ')
RMM ADDVOLUME 111001 STATUS(SCRATCH ) RACK(111001) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS )
  RELEASEACTION(SCRATCH )
RMM ADDVOLUME 111002 STATUS(SCRATCH ) RACK(111002) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS )
  RELEASEACTION(SCRATCH )
RMM ADDVOLUME 111003 STATUS(MASTER ) RACK(111003) UNIT(TAPE ) LABEL(SL )
  DENSITY(3480) USE(MVS ) ASDATE(1995/655) ASTIME(180754)
  RELEASEACTION(SCRATCH ) EXPDT(1996/005)
  OWNERACCESS(ALTER ) SECLEVEL(U ) OWNER(SMFADM )
  DESCRIPTION(' ')
  ACCOUNT('TSG,E1C,M4031MA ')
RMM ADDVOLUME 111010 STATUS(MASTER ) RACK(111010) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS ) ASDATE(1995/015) ASTIME(050143)
  RELEASEACTION(SCRATCH ) EXPDT(1995/071)
  OWNERACCESS(ALTER ) SECLEVEL(U ) OWNER(RDRHSME )
  DESCRIPTION(' ')
  ACCOUNT(' ')
RMM ADDVOLUME 111020 STATUS(MASTER ) RACK(111020) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS ) ASDATE(1995/246) ASTIME(100935)
  RELEASEACTION(RETURN REPLACE ) EXPDT(1995/647)
  OWNERACCESS(ALTER ) SECLEVEL(U ) OWNER(RDRHSME )
  DESCRIPTION(' ')
  ACCOUNT(' ')
RMM ADDVOLUME 111030 STATUS(SCRATCH ) RACK(111030) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS )
  RELEASEACTION(SCRATCH )
RMM ADDVOLUME 111100 STATUS(SCRATCH ) RACK(111100) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS )
  RELEASEACTION(SCRATCH )
RMM ADDVOLUME 111200 STATUS(SCRATCH ) RACK(111200) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS )
  RELEASEACTION(SCRATCH )
RMM ADDVOLUME 111300 STATUS(MASTER ) RACK(111300) UNIT(TAPE ) LABEL(SL )
  DENSITY(IDRC) USE(MVS ) ASDATE(1995/185) ASTIME(211111)
  RELEASEACTION(SCRATCH ) EXPDT(1995/132)
  OWNERACCESS(ALTER ) SECLEVEL(U ) OWNER(RDROPCA )
  DESCRIPTION(' ')
  ACCOUNT('TSG,E1C,M4031MC ')

```

Figure 77. EDGJRECV: Sample list of RMM ADDVOLUME Subcommands for Lost Volumes

## EDGJROWN - Reports on Owners Sorted by Name and by Department

EDGJROWN reads the DFSMSrmm extract data set and creates a report of owners sorted by name and a report sorted by department number.

### EDGJROWN Input and Output

EDGJROWN input and output is as follows:

#### Input:

The input for EDGJROWN is EXTRACT DD CARD which is the DFSMSrmm extract data set.

#### Output:

The output for EDGJROWN is:

- OWNNAME DD CARD which contains owners by name.
- OWNDEPT DD CARD which contains owners by department.

### EDGJROWN Customization

Use the following information to customize the EDGJROWN sample job.

#### TOOLIN

The sample job produced several reports: one report that lists all owners sorted by last name and one report that lists all owners sorted by department name.

You can customize your own owner reports by changing the layout of the report defined in the sort DISPLAY statement. Select the fields you want to include in the report and place them in the correct order. To produce reports with records in a different sequence you have to customize the SORT statement included in the OWNNCNTL and OWNDCNTL files.

### EDGJROWN Examples

Figure 78 is sorted by last name and includes all volume owners.

```
DFSMSrmm - Owners Listed by Last Name      12/13/95      00:05:52      - 1 -
LAST NAME  FIRST NAME  OWNER-ID  NODE      USERID    TIELINE  DEPT      # OF TAPES
-----
Chin      Benny      BKCHIN    STLVM4    BKCHIN    W98      W98      0
Dile      Mike       DILE      MVSNET    DILE      294-0897 W98      15
DFHSM     Storage Ad HSM250    MVSNET    DILE      294-0897 w93      0
Etz       Arnd       D041044   MAZVM01   ETZ       2966     4193 - SM 0
Gary      Coleman    COLEMAN   SJSVM28   GCOLEMAN 12345    w95      0
Gohr      Bernd      D044412   MAZVM02   GOHR      3147     4193     5
Kuehn     Werner     D094746   MAZVM01   WKUEHN    2116     4193     29
Streu     Ullfried   D090667   MAZVM02   USTREU    6418     4193     0

TOTAL TAPES                                     49
```

Figure 78. EDGJROWN: Sample Report of Owners Listed by Last Name

The data columns are:

#### LAST NAME

The last name of the owner.

#### FIRST NAME

The first name of the owner.

#### OWNER-ID

The user ID of the owner.

**NODE**

The node name of the owners electronic mail address.

**USERID**

The user ID of the owners electronic mail address.

**TIELINE**

The internal phone number of the owner.

**DEPT**

The department ID of the owner.

**# OF TAPES**

The number of tapes owned by the person identified by the owner ID.

Figure 79 shows a sample report of tape volume owners.

The data columns for these reports are the same as the Owners Listed by Last Name report as shown in Figure 80 on page 108.

```
1DFSMSrmm - Owners Listed by Department      12/13/95      00:06:12      - 1 -
```

LAST NAME	FIRST NAME	OWNER-ID	NODE	USERID	TIELINE	DEPT	# OF TAPES
DFHSM	Storage Ad	HSM250	MVSNET	DILE	294-0897	w93	0
Gary	Coleman	COLEMAN	SJSVM28	GCOLEMAN	12345	w95	0
Chin	Benny	BKCHIN	STLVM4	BKCHIN		w98	0
Dile	Mike	DILE	MVSNET	DILE	294-0897	w98	15
Gohr	Bernd	D044412	MAZVM02	GOHR	3147	4193	5
Streu	Ullfried	D090667	MAZVM02	USTREU	6418	4193	0
Kuehn	Werner	D094746	MAZVM01	WKUEHN	2116	4193	29
Etz	Arnd	D041044	MAZVM01	ETZ	2966	4193 - SM	0
TOTAL TAPES							49

Figure 79. EDGJROWN: Sample Report of Owners Listed by Department

---

## EDGJRVOL - Volume Reports

EDGJRVOL reads the DFSMSrmm extract data set and creates reports of volumes, sorted by several criteria.

### EDGJRVOL Input and Output

EDGJRVOL input and output is as follows:

**Input:**

The input for EDGJRVOL is EXTRACT DD CARD which is the DFSMSrmm extract data set.

**Output:**

The output for EDGJRVOL is:

- VOLNAME DD CARD which contains volumes sorted by volume serial.
- VOLRACK DD CARD which contains volumes sorted by rack number.
- VOLCLAS DD CARD which contains volumes sorted by security level.
- VOLOWN DD CARD which contains volumes sorted by owner.
- VOLEXP DD CARD which contains volumes sorted by expiration date.

### EDGJRVOL Customization

Use the following information to customize the EDGJRVOL sample job.

## TOOLIN

The sample job produces multiple reports about volumes. Each report is sorted into a different sequence based on the field used as the primary report purpose.

You can customize your own owner reports by changing the layout of the report defined in the sort DISPLAY statement. Select the fields you want to include in the report and place them in the correct order. To produce reports with records in a different sequence you have to customize the SORT statement included in the corresponding VOLxCNTL files.

## VOLECNTL

The sample JCL requires the American date format for the expiration date. If the expiration date has another format, change the corresponding SORT FIELDS statement. The sample job contains suitable SORT statements for other date formats as comments.

## EDGJRVOL Examples

Figure 80 is sorted by volume name and includes all volumes.

```
DFSMSrmm - Volumes Sorted by Volume Serial      11/14/95      03:11:40      - 1 -
VOLUME  RACK-#  OWNER-ID  EXPIRATION  SEC  UNIT  STATUS  DESCRIPTION  ACCOUNT-DATA
-----  -
A00001  A00001  D041044  10/14/1995  VTAP 3480 MASTER
A00002  A00002  D041044  10/14/1995  VTAP 3480 MASTER
A00003  A00003  D041044  10/14/1995  VTAP 3480 MASTER
A00004  A00004  D041044  10/14/1995  VTAP 3480 MASTER
A00005  A00005  D041044  10/14/1995  VTAP 3480 MASTER
..
A01001  A01001                VTAP 3490 SCRATCH
A01002  A01002                VTAP 3490 SCRATCH
A01003  A01003                VTAP 3490 SCRATCH
A01004  A01004                VTAP 3490 SCRATCH
```

Figure 80. EDGJRVOL: Sample Report of Volumes Sorted by Volume Serial Number

The data columns are:

### VOLUME

The volume serial number.

### RACK-#

The rack number which is the identifier that corresponds to a specific volume's shelf location.

### OWNER-ID

The user ID of the owner.

### EXPIRATION

The expiration date.

### SEC

The security class level.

### UNIT

The media name which is the value that describes the shape of the media.

### STATUS

The status of the volume which can be one of the following:

- MASTER
- SCRATCH
- USER
- INIT

- ENTRY

**DESCRIPTION**

A free input field for additional information.

**ACCOUNT-DATA**

Accounting data from JCL.

Figure 81 shows a sample report of volumes sorted by rack number. The data columns for this report are the same as the Volumes Sorted by Volume Serial report as shown in Figure 80 on page 108.

```

DFSMsrm - Volumes Sorted by Rack number      11/14/95      03:11:41      - 1 -
VOLUME  RACK-#  OWNER-ID  EXPIRATION  SEC  UNIT  STATUS  DESCRIPTION  ACCOUNT-DATA
-----  -
A00001  A00001  D041044  10/14/1995  TMS  3480  MASTER
A00002  A00002  D041044  10/14/1995  TMS  3480  MASTER
A00003  A00003  D041044  06/30/1996  TMS  3480  MASTER
A00004  A00004  D041044  06/30/1995  VTAP 3480  MASTER
A00005  A00005  D041044  04/30/2000  VTAP 3480  MASTER
A00006  A00006  D041044  04/30/2000  VTAP 3480  MASTER
  
```

Figure 81. EDGJRVL: Sample Report of Volumes Sorted by Rack Number

Figure 82 shows a sample report of volumes sorted by security level.

The data columns for this report are the same as the Volumes Sorted by Volume Serial report as shown in Figure 80 on page 108.

```

DFSMsrm - Volumes Sorted by Security Level    11/14/95      03:11:43      - 1 -
VOLUME  RACK-#  OWNER-ID  EXPIRATION  SEC  UNIT  STATUS  DESCRIPTION  ACCOUNT-DATA
-----  -
A00106  A00106  D041044  03/30/1997  TMS  3480  MASTER
A00107  A00107  D041044  03/30/1997  TMS  3480  MASTER
A00108  A00108  D041044  08/30/1998  TMS  3480  MASTER
A00109  A00109  D041044  02/15/1996  VTAP 3480  MASTER
A00110  A00110  D041044  02/15/1996  VTAP 3480  MASTER
A01006  A01006  D041044  05/30/2000  VTAP 3490  MASTER
  
```

Figure 82. EDGJRVL: Sample Report of Volumes Sorted by Security Level

Figure 83 shows a sample report of volumes by owner.

The data columns for this report are the same as the Volumes Sorted by Volume Serial report as shown in Figure 80 on page 108.

```

DFSMsrm - Volumes Sorted by Owner           11/14/95      03:11:45      - 1 -
VOLUME  RACK-#  OWNER-ID  EXPIRATION  SEC  UNIT  STATUS  DESCRIPTION  ACCOUNT-DATA
-----  -
A00301  A00301  D041044  10/14/1995  VTAP 3480  MASTER
A00302  A00302  D041044  10/14/1995  VTAP 3480  MASTER
A00303  A00303  D041044  06/30/1996  VTAP 3480  MASTER
A00304  A00304  D043024  06/30/1996  VTAP 3480  MASTER
A00305  A00305  D043024  04/30/2000  VTAP 3480  MASTER
A00306  A00306  D043024  04/30/2000  VTAP 3480  MASTER
A00307  A00307  D043024  05/30/2000  VTAP 3480  MASTER
A00308  A00308  D051133  05/30/2000  VTAP 3480  MASTER
A00309  A00309  D051133  10/14/1995  VTAP 3480  MASTER
  
```

Figure 83. EDGJRVL: Sample Report of Volumes Sorted by Owner

Figure 84 on page 110 shows a sample report of volumes sorted by expiration date.

The data columns for this report are the same as the Volumes Sorted by Volume Serial report as shown in Figure 80 on page 108.

```

DFSMSrmm - Volumes Sorted by Expiration Date      11/14/95      03:11:47      - 1 -
VOLUME  RACK-#  OWNER-ID  EXPIRATION  SEC  UNIT  STATUS  DESCRIPTION  ACCOUNT-DATA
-----  -
A00401  A00401  D041044  10/14/1995  VTAP 3480 MASTER
A00402  A00402  D041044  10/14/1995  VTAP 3480 MASTER
A00403  A00403  D041044  06/30/1996  VTAP 3480 MASTER
A00404  A00404  D041044  06/30/1996  VTAP 3480 MASTER
A00405  A00405  D041044  04/30/2000  VTAP 3480 MASTER
A00406  A00406  D041044  04/30/2000  VTAP 3480 MASTER
A00407  A00407  D041044  05/30/2000  VTAP 3480 MASTER

```

Figure 84. EDGJRVOL: Sample Report of Volumes Sorted by Expiration Date

---

## EDGJSMF - Create a List of DFSMSrmm SMF Volume Records

EDGJSMF lists DFSMSrmm SMF volume records in a readable format.

### EDGJSMF Input and Output

EDGJSMF input and output is as follows:

#### Input:

The input for EDGJSMF is RAWSMF DD CARD which contains SMF records.

#### Output:

The output for EDGJSMF is VREPT DD CARD which contains a summary of SMF records.

### EDGJSMF Customization

Use the following information to customize the EDGJSMF sample job.

#### TOOLIN

This file contains the ICETOOL control statements. The DISPLAY statement defines the format of a report and the fields from the input records to include in that report. You can customize the fields and the column header information to display any information from the SMF record or the volume information included in the record. The macro EDGSMFSY provides DFSORT symbolic names for the fields in the SMF records. The macro EDGSMFAR, as described in “SMF Audit Record Header Information: EDGSMFAR” on page 204, maps the SMF record. The EDGSVREC macro, as described in “SMF Volume Information: EDGSVREC” on page 231, maps the contents of the volume information.

#### RAWSMF

This is the file that identifies the data sets that contain dumped SMF records. They are produced using the IFASMFDP utility. Set the data set names to those used on your system to contain archived SMF records.

#### SMFVCNTL

This file contains control statements that control the selection of SMF records. You can customize the SMF record number to match that used in your installation. If the RAWSMF file contains only DFSMSrmm SMFAUD records you can remove the check for the SMF record number. The SMF record number must be specified in hexadecimal. If you do not know what the record numbers are, you can use the sample job EDGJSMFP which summarizes the SMF record numbers by type and provides decimal and hexadecimal record numbers. See “EDGJSMFP - Create a Summary of SMF Records” on page 112 for more about the EDGJSMFP sample job.



## SYSUT2

This file creates the output file of selected SMF records and sets the record format to RECFM=VB. Set the data set name as required in your installation. Remember to update the data set name in the CLEAN step SYSIN file.

## EDGJSMF Examples

Figure 85 shows a sample report sorted by log date and log time and includes all DFSMSrmm SMF volume records.

```
DFSMSrmm - SMF Audit Records      11/27/95      15:23:29      - 1 -
```

TIME	DATE	SYS	USER	ACT	VOLUME	CREATE	LASTCH	USER	SYS	LASTUSCH
7104C7	95330	E4E4	RDRHSME	C	111673	1991266	1995330	*OCE	E4E4	1995320
7104E5	95330	E4E4	RDRHSME	C	111673	1991266	1995330	*OCE	E4E4	1995320
7106EB	95330	E4E4	RDRHSME	C	111720	1991267	1995330	*OCE	E4E4	1995278
710717	95330	E4E4	RDRHSME	C	111720	1991267	1995330	*OCE	E4E4	1995278
766363	95330	E4E4	RDRHSME	C	111673	1991266	1995330	*OCE	E4E4	1995320
766371	95330	E4E4	RDRHSME	C	111673	1991266	1995330	*OCE	E4E4	1995320
7663C2	95330	E4E4	RDRHSME	C	111673	1991266	1995330	*OCE	E4E4	1995320
76B708	95330	E4E4	RDRHSME	C	111720	1991267	1995330	*OCE	E4E4	1995278
76B712	95330	E4E4	RDRHSME	C	111720	1991267	1995330	*OCE	E4E4	1995278
78657E	95330	E4E4	RDRHSME	C	111674	1991239	1995330	*OCE	E4E4	1995201
78659D	95330	E4E4	RDRHSME	C	111674	1991239	1995330	*OCE	E4E4	1995201
79347F	95330	E4E4	RDRHSME	C	111674	1991239	1995330	*OCE	E4E4	1995201

Figure 85. EDGJSMF: Sample Report of a List of All DFSMSrmm SMF Volume Records

The data columns are:

### TIME

The log time of the record.

### DATE

The log date of the record.

### SYS

The SMF ID of the system that created the SMF record.

### USER

The user ID of the user requesting the function that caused the creation of the SMF record.

### ACT

Activity type

**A** The record was added.

**C** The record was changed.

**D** The record was deleted.

### VOLUME

The serial number of the volume.

### CREATE

The creation date of the volume.

### LASTCH

The last change date of the volume.

### USER

The last change user ID.

### SYS

The CPU system ID of the last change.

## LASTUSCH

The last user change date. This is the date the volume was last changed by command.

---

## EDGJSMFP - Create a Summary of SMF Records

EDGJSMFP produces a report that provides the number of each SMF record type found in SMF data.

## EDGJSMFP Input and Output

EDGJSMFP input and output is as follows:

### Input:

The input for EDGJSMFP is RAWSMF DD CARD which contains SMF records.

### Output:

The output for EDGJSMFP is VREPT DD CARD which contains SMF record numbers and counts.

## EDGJSMFP Customization

Use the following information to customize the EDGJSMFP sample job.

### TOOLIN

This file contains the ICETOOL control statements. The OCCUR statement defines the contents of a summary report and the fields from the input records to include in that report. You can customize the fields and the column header information to display any information from the SMF record or the volume information included in the record. The header part of SMF records is a common format.

### RAWSMF

This is the file that identifies the data sets that contain dumped SMF records. They are produced using the IFASMFDP utility. Set the data set name to that used on your system to contain archived SMF records.

## EDGJSMFP Examples

Figure 86 shows a sample report of SMF audit records and the number of each record.

```
DFSMSrmm - SMF Audit Records      11/27/95      15:53:48      - 1

SMF RECORD NUMBER   COUNT OF RECORDS   HEX EQUIVALENT
-----
          2             1      02
          3             1      03
        248           817      F8
```

Figure 86. EDGJSMFP: Sample Report of SMF Audit Record Counts by Record Number

The data columns are:

### SMF RECORD NUMBER

The record number that identifies the type of the SMF record.

### COUNT OF RECORDS

The number of SMF records by the SMF record number.

## HEX EQUIVALENT

The SMF record number in hex that matches the first data column which is the SMF record number in decimal.

---

## EDGJVLT - Create a Report about Volumes in Storage Locations

EDGJVLT reads the DFSMSrmm extract data set and creates a report of volumes currently in storage locations.

You must confirm any outstanding volume moves before running this report to obtain accurate results.

## EDGJVLT Input and Output

EDGJVLT input and output is as follows:

### Input:

The input for EDGJVLT is EXTRACT DD CARD which is the DFSMSrmm extract data set.

### Output:

The output for EDGJVLT is:

- RMMVLT DD CARD which contains volumes in storage locations sorted by volume serial number.
- RMMVLTS DD CARD which contains the number of volumes by location.

## EDGJVLT Customization

Use the following information to customize the EDGJVLT sample job.

### TOOLIN

The sample job produces a report about volumes by storage location. The volumes are sorted by location name and bin number. The sample report also produces a summary of the number of volumes by storage location.

You can customize your own owner reports by changing the layout of the report defined in the sort DISPLAY statement. Select the fields you want to include in the report and place them in the correct order. To produce reports with records in a different sequence, you have to customize the SORT statement included in the VLTSCNTL files.

## EDGJVLT Examples

Figure 87 on page 114 is sorted by storage location and bin number and includes all volumes currently in storage locations.

DFSMSrmm - Volumes in Stores Sorted by VOLSER							
		12/12/95	13:52:05	- 1 -			
VOLSER	DSNAME	JOBNAME	ASDATE	STORE	STORE DATE	BIN #	MEDIANM
111056	RTSGM.DUMPMTLY.SSCPPS.G0056V00	MASTMTLY	05/12/1995	DISTANT	08/12/1995	000001	TAPE
111019	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	DISTANT	23/06/1995	000002	TAPE
111021	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	DISTANT	23/06/1995	000004	TAPE
111023	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	DISTANT	23/06/1995	000005	TAPE
111036	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	LOCAL	23/06/1995	000006	TAPE
111044	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	LOCAL	23/06/1995	000007	TAPE
111050	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	LOCAL	23/06/1995	000008	TAPE
111051	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	REMOTE	23/06/1995	000009	TAPE
111066	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	REMOTE	23/06/1995	000010	TAPE
111005	RHSM.DMP.VRDUMP.V8E4U06.D95332.T454304	HSME4	28/11/1995	REMOTE	01/12/1995	000013	TAPE
111069	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	REMOTE	23/06/1995	000014	TAPE
111906	RHSM.DMP.VRDUMP.VE4DA05.D95094.T290804	HSME4	04/04/1995	REMOTE	07/04/1995	000016	TAPE
111070	RTSGM.DUMPMTLY.SYSPPT.G0029V00	MASTMTLY	20/06/1994	REMOTE	23/06/1995	000017	TAPE

Figure 87. EDGJVL: Sample Report of Volumes in Storage Location

The data columns are:

**VOLSER**

The serial number of the volume.

**DSNAME**

The first file data set name.

**JOBNAME**

The creating jobname.

**ASDATE**

The date the volume was assigned to the current owner.

**STORE**

The name of the storage location.

**STORE DATE**

The date the volume move into the storage location was confirmed.

**BIN #**

The bin number which identifies the shelf location in a storage location. A shelf location is a single space on a shelf where you store removable media.

**MEDIANM**

The media name which is the value that describes the shape of the media

Figure 88 shows a sample report of volumes by storage location.

DFSMSrmm - Volume Counts by Location		11/14/95	05:49:51	- 1 -
STORE	COUNT			
DISTANT	4			
LOCAL	3			
REMOTE	6			

Figure 88. EDGJVL: Sample Report of Volume Counts by Location

The data columns are:

**STORE**

The storage location

**COUNT**

The number of volumes by storage location

## EDGJVLTM - Create a Report about Volumes Moving to Storage Locations

EDGJVLTM reads the DFSMSrmm extract data set and creates a report of volumes moving to storage locations.

### EDGJVLTM Input and Output

EDGJVLTM input and output is as follows:

#### Input:

The input for EDGJVLTM is EXTRACT DD CARD which is the DFSMSrmm extract data set.

#### Output:

The output for EDGJVLTM is:

- RMMVLTM DD CARD which contains volumes moving to a storage location.
- RMMVLTM DD CARD which contains the number of volumes by destination.

### EDGJVLTM Customization

Use the following information to customize the EDGJVLTM sample job.

#### TOOLIN

The sample job produces a report for all volumes moving to a storage location. The sample report also produces a summary of the volumes by destination location.

You can customize the reports by changing the sort DISPLAY statement.

To produce reports with records in a different sequence, you have to customize the SORT statement included in the VLTSCNTL file.

### EDGJVLTM Examples

Figure 89 is sorted by destination and volume serial number and includes only volumes ready to move to storage locations.

```
DFSMSrmm - Volumes Moving to Storage Location      12/12/95      15:01:49      - 1 -
```

VOLSER	DSNAME	JOBNAME	ASDATE	DEST	STORE DATE	BIN #	MEDIANM
111000	RHSM.HMIGTAPE.DATASET	HSME4	28/11/1995	VLTX	10/11/1995		TAPE
111001	RHSM.DMP.VRDUMP.VE4DA08.D95318.T442904			VLTX	01/12/1995		TAPE
111002	RHSM.DMP.VRDUMP.VE4DA06.D95318.T301404			VLTX	01/12/1995		TAPE
111003	SYSMF.E4.WEEKLY.DATA.G0185V00	PSMFE4W2	13/11/1995	VLTX	29/09/1995		TAPE
111004	RTSGM.VRDUMP.V8E7U01.G0277V00			VLTX	29/09/1995		TAPE
111006	RTSGM.VRDUMP.V8E1MV3.G0272V00			VLTX	04/11/1995		TAPE
111007	RTSGM.VRDUMP.V8E1MV3.G0272V00			VLTX	04/11/1995		TAPE
111008	RHSM.HMIGTAPE.DATASET	HSME4	01/12/1994	VLTX	24/10/1994		TAPE
111009	RHSM.DMP.VRDUMP.VE4DA06.D95318.T301404			VLTX	01/12/1995		TAPE
111013	RTSGM.DUMPWKLY.MSMP02.G0031V00			VLTX	29/09/1995		TAPE
111014	RTSGM.DUMPWKLY.MSMP02.G0031V00			VLTX	03/10/1994		TAPE
111015	RTSGM.DUMPTLY.V8ESA13.G0027V00	ESAMSTRM	16/05/1993	VLTX	14/05/1993		TAPE
111016	RHSM.BACKTAPE.DATASET	HSME4	24/08/1995	VLTX	11/08/1995		TAPE
111017	RHSM.BACKTAPE.DATASET	HSME4	25/11/1994	VLTX	24/10/1994		TAPE

Figure 89. EDGJVLTM: Sample Report of Volumes Moving to Storage Locations

The data columns are:

#### VOLSER

The serial number of the volume.

**DSNAME**

The name of the first dataset on the volume.

**JOBNAME**

The creating jobname.

**ASDATE**

The date the volume was assigned to the current owner.

**DEST**

The destination, the target storage location of the volume.

**STORE DATE**

The more recent of the date the volume destination was set or the date the volume was ejected.

**BIN #**

The bin number which identifies the shelf location in a storage location. A shelf location is a single space on a shelf where you store removable media.

**MEDIANM**

The media name which is the value that describes the shape of the media

Figure 90 shows a sample report of the number of volumes in each identified storage location.

```

DFSMSrmm - Volume Counts by Destination      12/12/95      15:01:50      - 1 -
STORE          COUNT
-----
VLTX          14

```

Figure 90. EDGJVLTM: Sample Report of Volume Counts by Location

The data columns are:

**STORE**

The destination storage location.

**COUNT**

The number of volumes by storage location.

---

## EDGJVOL - Create Volume Reports

EDGJVOL reads the DFSMSrmm extract data set and creates reports sorted by volume serial number.

### EDGJVOL Input and Output

EDGJVOL input and output is as follows:

**Input:**

The input for EDGJVOL is EXTRACT DD CARD which is the DFSMSrmm extract data set.

**Output:**

The input for EDGJVOL is:

- RMMVOL DD CARD which contains volumes sorted by serial number.
- RMMVOLS DD CARD which contains the number of volumes by status.

- RMMVOLP DD CARD which contains the number of volumes by pending release.

## EDGJVOL Customization

Use the following information to customize the EDGJVOL sample job.

### TOOLIN

The sample job produces a report about all data sets on all volumes. The data sets are sorted by volume. The sample report also produces a summary of the volumes in pending release status and a summary of volumes by volume status.

Before customizing the reports by changing the layout of the report defined in the sort DISPLAY statement, consider that the report is based on the records built by the VOLRCNTL and DSNRCNTL file OUTREC statements. The records are built using the DFSMSrmm extract data set records for volumes and data sets.

If you want to change the fields included in the report, you might have to update the OUTREC statements to add the additional fields into the output records.

To produce reports with records in a different sequence, you have to customize the SORT statement included in the VOLFCNTL file.

## EDGJVOL Examples

Figure 91 is sorted by volume serial number, file sequence on the volume, and data set name. The sample report lists all the volumes.

```

DFSMSrmm - Volumes Sorted by Serial Number      12/12/95      13:58:32      - 1 -
VOLSER  DSNAME                                JOBNAME  VSEQ  AS/CR DATE  EXPDT      JCL EXPDT  ST  R
-----  -----                                -
CIP4B4  BMC.CIP.INSTALL                          1       13/03/1995  12/03/1996  -----  US  N
        BMC.ISIUNLD.BTCHUNLD                1       13/03/1995
        BMC.ISIUNLD.CNTL                    1       13/03/1995
        BMC.ISIUNLD.LOAD                    1       13/03/1995
        BMC.ISIUNLD.DATA                    1       13/03/1995
CLB201  1       21/07/1995  20/07/1996  MA  N
CLB203  1       21/07/1995  20/07/1996  MA  N
CLB204  1       21/07/1995  20/07/1996  MA  N
CN1698  COMPAREX.OBJECT                          1       21/03/1995  20/03/1996  US  N
CN4545  CW.FA.FILE1                              1       24/03/1995  22/03/1996  US  N
        CW.FA.FILE2                          1       27/03/1995
CN5072  CW.FA.FILE1                              1       03/04/1995  02/04/1996  US  N
        CW.FA.FILE2                          1       03/04/1995
CRP120  SMPMCS                                  1       02/08/1995  31/07/1996  MA  N
        HCRP120.F1                          1       14/08/1995
        HCRP120.F2                          1       14/08/1995
CRWPMT  RW.V1R3M0.JCLMT                          1
        RW.V1R3M0.COBQMT                    1       07/12/1992
        RW.V1R3M0.COBAMT                    1       07/12/1992
        RW.V1R3M0.RUNMT                      1       07/12/1992
DK3062  1       03/03/1994  00/00/1998  US  N
DLS311  1       06/12/1995  30/11/1996  MA  N
DL0692  CANDLE.MAINT.PTFINFO                    1       03/03/1994  00/00/1998  US  N
DL1202  1       21/07/1995  20/07/1996  MA  N
INFA61  INFOREM.ALLOCPTF.INSTRUCT                1       12/05/1995  11/05/1996  MA  N
INFB61  INFOREM.BASEPTF.INSTRUCT                1       12/05/1995  11/05/1996  MA  N
....

```

Figure 91. EDGJVOL: Sample Reports of Volumes Sorted by Volume Serial Number

The data columns are:

### VOLSER

The volume serial number. The volume serial number is blank for all files other than the first file.

**DSNAME**

The name of the data set on the volume.

**JOBNAME**

The creating jobname which is the name of the job that created the data set

**VSEQ**

The volume sequence number for the dataset

**AS/CR DATE**

The date the volume was assigned to the current owner for volumes and first file. The date that any data set other than the first file was created.

**EXPDT**

The expiration date.

**JCL EXPDT**

The original expiration date.

**ST**

The status of the volume which can be one of the following:

- MA - Master
- US - User
- SC - Scratch
- IN - Init
- EN - Entry

**R** Volume pending release which can be one of the following:

- N which means that no release is pending for the volume.
- Y which means that release is pending for the volume.

Figure 92 shows a sample report of volumes in either master or scratch status.

```

DFSMSrmm - Volume Counts by Status                11/10/95        02:47:28        - 1 -

STATUS          COUNT
-----          -
MASTER          38
SCRATCH         17

```

Figure 92. EDGJVOL: Sample Report of Volume Counts by Status

The data columns are:

**STATUS**

The status of the volume which can be one of the following:

- MASTER
- SCRATCH
- USER
- INIT
- ENTRY

**COUNT**

The number of volumes by volume status.



Figure 93 shows a sample report of the number of volumes that are either pending release or not pending release.

```
DFSMSrmm - Volume Counts by Pending Release      11/10/95      02:47:30      - 1 -  
  
PENDING RLSE          COUNT  
-----  
N                      55
```

*Figure 93. EDGJVOL: Sample Report of Volume Counts by Pending Release Status*

The data columns are:

**PENDING RLSE**

Volume pending release which can be one of the following:

- N which means that no release is pending for the volume.
- Y which means that release is pending.

**COUNT**

The number of volumes by pending release type.



---

## Chapter 7. Creating REXX Execs

This chapter contains information you can use to create your own REXX execs or procedures to use with DFSMSrmm.

To get the TSO subcommands to return information as REXX variables, you must set the REXX variable SYSAUTH.EDGDATE to a valid abbreviation of a DATEFORM value.

All commands set the DFSMSrmm reason code into variable EDG@RC, if the return code in the REXX variable RC is 4, 12, or 20.

Some stem variables, such as EDG@VOL and EDG@DSN, use the stem value of 0 to indicate the number of items in the array. For example, if you issue the RMM SEARCHVOLUME subcommand, EDG@VOL.0 might contain 2, indicating two volumes met the search criteria. EDG@VOL.1 contains the first volume serial number, and EDG@VOL.2 contains the second volume serial number.

All stem variables, such as EDG@VOL and EDG@DSN, use the stem value of 0 to indicate the number of items in the array. For example, if you issue the RMM LISTCONTROL LOCDEF subcommand, EDG@LDMN.1.0 variable contains the number of media names used for the first location. EDG@LDMN.1.1 contains the first media name and EDG@LDMN.1.2 contains the second media name. EDG@LDMN.2.0 variable contains the number of media names used for the second location. EDG@LDMN.2.1 contains the first media name and EDG@LDMN.2.2 contains the second media name.

For more information about REXX variables you can specify, see *OS/390 DFSMSrmm Guide and Reference*.

---

### Sample REXX Execs

Here are examples of REXX execs you can create to obtain information about your volumes and data sets. These examples are supplied as members EDGXMP1 and EDGXMP2 in the DFSMSrmm SAMPLIB dataset.

#### EDGXMP1 VOLCHAIN EXEC

Use EDGXMP1 to list all the volumes in a multivolume set of volumes.

```

/*REXX*****
/*
/* VOLCHAIN EXEC - Given any volume serial number it lists all the
/*          volumes in the multivolume set
/*
/* Variables used from LISTVOLUME command:
/*     edg@vol - Volume serial number
/*     edg@pvl - Volume serial number of previous volume in
/*          multivolume chain.
/*     edg@nvl - Volume serial number of next volume in
/*          multivolume chain.
/*
/******
arg volser          /* Use parameter supplied as the
                   /* volume serial.

Do while volser = '' /* No volume serial so ask for one*/
  Say "Enter Volume Serial:" /* Issue prompt to TSO user
  Pull volser          /* Get volume serial from TSO user*/
end

Call LISTVOL volser /* Set variable information for
                   /* requested volume.

If result = 0 then /* Are variables OK?
do
  nextvol = edg@nvl /* Save the next volume pointer
  push edg@vol      /* Put this volume serial on the
                   /* stack.

                   /* Chain through the previous
                   /* volumes, listing each and
                   /* putting each volume serial on
                   /* the stack.

```

Figure 94. VOLCHAIN EXEC Sample REXX Exec (Part 1 of 3)

```

Do while (result = 0) & (strip(edg@pv1) ^= '')
  Call LISTVOL edg@pv1          /* Set variable information for */
                                /* previous volume.           */
  If result = 0 then           /* If previous volume exists then */
    Push edg@vol               /* Put its serial number on the */
                                /* stack.                       */
  End /* of chaining prevvol pointers */

edg@nv1 = nextvol              /* Start the chain at the next */
                                /* volume of the volume which was */
                                /* listed first.                 */

                                /* Chain through the next volumes */
                                /* listing each and putting each */
                                /* volume serial on the stack.   */
Do while (result = 0) & (strip(edg@nv1) ^= '')
  Call LISTVOL edg@nv1        /* Set variable information for */
                                /* previous volume.           */
  If result = 0 then           /* If previous volume exists then */
    Queue edg@vol             /* put its serial number on the */
                                /* stack.                       */
  End /* of chaining nextvol pointers */

Do queued()                    /* For each volume in the multi- */
  pull volser                  /* volume chain, pull the serial */
  say volser                    /* off the stack and write it to */
End /* of volume list */      /* the TSO user.                 */
end /* of successful list */

exit(0)                          /* return to caller             */

```

Figure 94. VOLCHAIN EXEC Sample REXX Exec (Part 2 of 3)

```

LISTVOL:                                /* LISTVOLUME Procedure: */
                                        /* Input parameter: volume serial */
                                        /* Output: */
                                        /* Result=0: Complete set of */
                                        /* listvolume variables */
                                        /* Result=4: Error message */
                                        /* issued to TSO user */

arg volser
sysauth.edgdate = "EUROPEAN"           /* Tell RMM TSO command to return */
                                        /* output as REXX variables and */
                                        /* dates in EUROPEAN (DD/MM/YYYY) */
                                        /* format. */
save_prompt = prompt("OFF")           /* Turn PROMPTing off. */

                                        /* Get volume information from */
                                        /* DFSMSrmm. */
address "TSO" "RMM LISTVOLUME "volser" ALL"
If rc = 0 then
  lvresult = 0                         /* Indicate Successful LISTVOLUME */
else
  do
    drop sysauth.edgdate              /* An error has occurred. Tell */
                                        /* the RMM TSO command to return */
                                        /* output via messages. */
                                        /* Get error information from */
                                        /* DFSMSrmm. */

    say "LISTVOLUME "volser
    address "TSO" "RMM LISTVOLUME "volser
    lvresult = 4                       /* Indicate Unsuccessful */
                                        /* LISTVOLUME. */
  end
junk = prompt(save_prompt)             /* Restore PROMPT status. */
return lvresult                       /* Return to caller. */

```

Figure 94. VOLCHAIN EXEC Sample REXX Exec (Part 3 of 3)

## EDGXMP2 DSNLIST EXEC

Use EDGXMP2 to display volume information.

```

/*REXX*****
/*
/* DSNLIST EXEC - Given any volume serial number it displays all the */
/* information held by DFSMSrmm about the data sets on*/
/* the volume. */
/*
/* Variables used from SEARCHDATASET command: */
/* edg@dsn.0 - number of data sets on the volume. */
/* edg@dsn.x - data set name of each of the data sets on */
/* volume (x=1 to edg@dsn.0). */
/* edg@vol.x - volume serial number (x=1 to edg@dsn.0) */
/* edg@seq.x - data set sequence number (x=1 to edg@dsn.0) */
/*
/******
arg volser /* Use parameter supplied as the */
/* volume serial. */

Do while volser = '' /* No volume serial so ask for one*/
  Say "Enter Volume Serial:" /* Issue prompt to TSO user */
  Pull volser /* Get volume serial from TSO user*/
end

sysauth.edgdate = "EUROPEAN" /* Tell RMM TSO command to return */
/* output as REXX variables and */
/* dates in EUROPEAN (DD/MM/YYYY) */
/* format. */
save_prompt = prompt("OFF") /* Turn PROMPTing off. */
save_msg = msg("OFF") /* Turn messages off. */
/* Get information for data sets */
/* on the volume */
address "TSO" "RMM SEARCHDATASET D(*) VOLUME("volser") LIMIT(*)"
junk = msg(save_msg) /* Restore previous message status*/

If rc = 0 then
do
  drop sysauth.edgdate /* Tell the RMM TSO command to */
/* return output via messages. */

/* Display data set listed by the */
/* Search command until all are */
/* displayed or non-zero return */
/* code received. */

```

Figure 95. DSNLIST EXEC Sample REXX Exec (Part 1 of 2)

```

Do dataset = 1 to edg@dsn.0 while (rc = 0)
  address "TSO" "RMM LISTDATASET '"edg@dsn.dataset"'
    VOLUME("edg@vol.dataset") SEQ("edg@seq.dataset)"
  say "" /* Write a couple of extra blank */
  say "" /* lines */
end
/* complete with a summary */
say edg@dsn.0 "Data sets on volume "volser" displayed."
end
else
do
drop sysauth.edgdate /* An error has occurred. Tell */
/* the RMM TSO command to return */
/* output via messages. */
/* Get error information from */
/* DFSMSrmm. */
say "SEARCHDATASET D(*) VOLUME("volser") LIMIT(*)"
address "TSO" "RMM SEARCHDATASET D(*) VOLUME("volser") LIMIT(*)"
end
junk = prompt(save_prompt) /* Restore PROMPT status. */
exit(0) /* return to caller */

```

Figure 95. DSNLIST EXEC Sample REXX Exec (Part 2 of 2)



---

## Appendix A. DFSORT Symbols for Use with DFSMSrmm

DFSMSrmm provides you with symbols you can use in DFSORT and ICETOOL jobs to create reports for DFSMSrmm-managed resources. These symbol mappings are available in SYS1.MACLIB after SMP/E APPLY processing, as members EDGACTSY, EDGEXTSY, and EDGSMFSY. You can access these symbols in your DFSORT and ICETOOL jobs by pointing the SYMNames DD statement directly to any of these members. Alternatively, you can copy these members somewhere else, modify them if appropriate (for example, you could add your own constant symbols) and point the SYMNames DD to the modified member or data set.

This appendix describes the available symbol mappings which are:

- “EDGACTSY: Activity File Symbols”.
- “EDGEXTSY: Extract Data Set Symbols” on page 131.
- “EDGSMFSY: SMF Record Symbols” on page 143.

Note: You can obtain information about downloading DFSORT symbol mappings for data associated with DFSMSrmm releases 1.5 and 1.4 from the DFSORT home page at: <http://www.ibm.com/storage/dfsorrt/>

---

### EDGACTSY: Activity File Symbols

EDGACTSY provides the DFSORT symbol mapping for the DFSMSrmm inventory management activity file as follows.

```
***** 00050000
* 00100000
* RMM Inventory Management Activity File Record 00150000
* DFSORT Symbol mapping 00200000
* 00250000
***** 00300000
* OS/390 DFSMSrmm V2R10 00350000
* 00400000
*PROPRIETARY V3 STATEMENT 00450000
*LICENSED MATERIALS - PROPERTY OF IBM 00500000
*"RESTRICTED MATERIALS OF IBM" 00550000
*5647-A01 00600000
*(C) COPYRIGHT 1993,2000 IBM CORP. 00650000
*STATUS = HDZ11F0 00700000
*END PROPRIETARY V3 STATEMENT 00750000
* 00800000
***** 00850000
* SEE "OS/390 REPORTING 00900000
* (SC26-7335)" FOR FIELD DETAILS ON RMM RECORDS. 00950000
* SEE "DFSORT APG (SC33-4035)" FOR DETAILS OF USING SYMBOLS. 01000000
***** 01050000
* CHANGE ACTIVITY: 01100000
* $LG=RMM210 ,210,990901,CHK: DFSORT Symbols 1LGA * 01150000
***** 01200000
ACTRC,1,443 01250000
***** 01300000
* ACTRC: RMM ACTIVITY file records 01350000
***** 01400000
ACTRC_RDW,1,4,BI record descriptor word 01450000
ACTRC_RDW_LEN,=,2,BI record descriptor - length 01500000
ACTRC_RDW_SEG,*,2,BI record descriptor - segment 01550000
***** 01600000
* Common record prefix 01650000
***** 01700000
ACTRC_PREFIX,*,4 common prefix 01750000
```

EDGACTSY

```

ACTRC_PRE_TYPE,=,1,CH          activity file record type 01800000
ACTRC_PRE_TYPE_HDR,'H'        header record              01850000
ACTRC_PRE_TYPE_DSN,'D'       data set details record    01900000
ACTRC_PRE_TYPE_VOL,'V'      volume details record      01950000
SKIP,3                        reserved                          02000000
*****
* Start overlay area          * 02100000
*****
ACTRC_DATA,*                  start overlay for details 02200000
*****
* Header Record              * 02300000
*****
POSITION,ACTRC_DATA          start at ACTRC_DATA      02400000
ACTRC_HDR_DATA,=            overlay for header data 02450000
ACTRC_HDR_RUN_DATE,=,10,CH  inventory management date 02500000
ACTRC_HDR_RUN_TIME,*,6,CH   inventory management time 02550000
ACTRC_HDR_VERIFY_DATE,*,10,CH inventory mgmt. VERIFY date 02600000
ACTRC_HDR_EXEC_PARMS,*,16  execution parameters     02650000
ACTRC_HDR_BACKUP,=,1,CH    BACKUP                   02700000
ACTRC_YES,'Y'              yes                          02750000
ACTRC_NO,'N'               no                          02800000
ACTRC_HDR_DSTORE,*,1,CH    DSTORE                   02850000
* ACTRC_YES,'Y'            yes                          02900000
* ACTRC_NO,'N'            no                          02950000
ACTRC_HDR_EXPROC,*,1,CH   EXPROC                   03000000
* ACTRC_YES,'Y'            yes                          03050000
* ACTRC_NO,'N'            no                          03100000
ACTRC_HDR_RPTEXT,*,1,CH   RPTEXT                   03150000
* ACTRC_YES,'Y'            yes                          03200000
* ACTRC_NO,'N'            no                          03250000
ACTRC_HDR_VRSEL,*,1,CH    VRSEL                    03300000
* ACTRC_YES,'Y'            yes                          03350000
* ACTRC_NO,'N'            no                          03400000
ACTRC_HDR_VERIFY,*,1,CH   VERIFY                   03450000
* ACTRC_YES,'Y'            yes                          03500000
* ACTRC_NO,'N'            no                          03550000
ACTRC_HDR_DATE,*,1,CH     DATE for VERIFY run     03600000
* ACTRC_YES,'Y'            yes                          03650000
* ACTRC_NO,'N'            no                          03700000
ACTRC_HDR_DATEFORM,*,1,CH DATEFORM                 03750000
ACTRC_HDR_DATEFORM_AMERICAN,'A' American                   03800000
ACTRC_HDR_DATEFORM_EUROPEAN,'E' European                   03850000
ACTRC_HDR_DATEFORM_ISO,'I' ISO                       03900000
ACTRC_HDR_DATEFORM_JULIAN,'J' Julian                       03950000
ACTRC_HDR_CATSYNCH,*,1,CH CATSYNCH                 03970000
* ACTRC_YES,'Y'            yes                          03990000
* ACTRC_NO,'N'            no                          04010000
SKIP,7                      reserved                          04030000
ACTRC_HDR_OPTIONS,*,31     parmlib options         04065000
ACTRC_HDR_VRSJOBNAME,=,1,CH VRSJOBNAME priority    04100000
ACTRC_HDR_VRSJOBNAME_FIRST,'1' jobname first          04150000
ACTRC_HDR_VRSJOBNAME_SECOND,'2' jobname second         04200000
ACTRC_HDR_VRSCHANGE,*,1,CH VRSCHANGE              04250000
ACTRC_HDR_VRSCHANGE_VERIFY,'V' verify                    04300000
ACTRC_HDR_VRSCHANGE_INFO,'I' information             04350000
ACTRC_HDR_CATRETPD,*,4,CH CATRETPD hours         04400000
ACTRC_HDR_VRSMIN_COUNT,*,10,CH VRSMIN min. number of VRSs 04450000
ACTRC_HDR_VRSMIN_ACTION,*,1,CH VRSMIN action          04500000
ACTRC_HDR_VRSMIN_ACTION_FAIL,'F' fail                    04550000
ACTRC_HDR_VRSMIN_ACTION_WARN,'W' warning                   04600000
ACTRC_HDR_VRSMIN_ACTION_INFO,'I' information             04650000
ACTRC_HDR_OPT_VRSEL,*,1,CH VRSEL                    04700000
ACTRC_HDR_OPT_VRSEL_NEW,'N' new                          04750000
ACTRC_HDR_OPT_VRSEL_OLD,'O' old                          04800000
ACTRC_HDR_OPT_VRSEL_BLANK,' ' blank -> old                04850000
ACTRC_HDR_UNCATALOG,*,1,CH UNCATALOG              04900000
ACTRC_HDR_UNCATALOG_NO,'N' no                          04950000

```

ACTRC_HDR_UNCATALOG_YES,'Y'	yes	05000000	
ACTRC_HDR_UNCATALOG_SCRATCH,'S'	scratch volume only	05050000	
ACTRC_HDR_TPRACF,*,1,CH	TPRACF	05100000	
ACTRC_HDR_TPRACF_NONE,'N'	none	05150000	
ACTRC_HDR_TPRACF_PREDEFINED,'P'	predefined profiles	05200000	
ACTRC_HDR_TPRACF_AUTOMATIC,'A'	automatic profiles	05250000	
ACTRC_HDR_SYSID,*,8,CH	SYSID	05300000	
ACTRC_HDR_CATSYSID,*,1,CH	CATSYSID	05310000	
ACTRC_HDR_CATSYSID_NOT_SET,'N'	not set	05320000	
ACTRC_HDR_CATSYSID_SET,'Y'	set to 1-16 sysid's	05330000	
ACTRC_HDR_CATSYSID_SHARED,'*'	set to fully shared	05340000	
ACTRC_HDR_OPT_RETAINBY,*,1,CH	RETAINBY V/S	05341400	
ACTRC_HDR_OPT_RETAINBY_VOLUME,'V'	volume	05342800	
ACTRC_HDR_OPT_RETAINBY_SET,'S'	set	05344200	
ACTRC_HDR_OPT_MOVEBY,*,1,CH	MOVEBY V/S	05345600	
ACTRC_HDR_OPT_MOVEBY_VOLUME,'V'	volume	05347000	
ACTRC_HDR_OPT_MOVEBY_SET,'S'	set	05348400	
ACTRC_HDR_END,*	End of header record	05350000	
*****		05400000	
* Data Set Record		* 05450000	
*****		05500000	
POSITION,ACTRC_DATA	start at ACTRC_DATA	05550000	
ACTRC_DSN_DATA,=	overlay for data set data	05600000	
ACTRC_DSN_DSNAME,=,44,CH	data set name	05650000	
ACTRC_DSN_JOBNAME,*,8,CH	creating job name	05700000	
ACTRC_DSN_VOL,*,6,CH	volume serial number	05750000	
ACTRC_DSN_DSEQ,*,4,CH	data set sequence number	05800000	
ACTRC_DSN_FILESEQ,*,4,CH	physical file sequence	05850000	
*	number	05900000	
ACTRC_DSN_CRDATE,*,10,CH	data set creation date	05950000	
ACTRC_DSN_CRTIME,*,6,CH	data set creation time	06000000	
ACTRC_DSN_LOC,*,8,CH	volume location	06050000	
ACTRC_DSN_DEST,*,8,CH	volume destination	06100000	
ACTRC_DSN_SMS_MC,*,8,CH	SMS management class name	06150000	
ACTRC_DSN_VRS_MV,*,8,CH	VRS management value name	06200000	
ACTRC_DSN_CATLG,*,1,CH	data set catalog status	06250000	
ACTRC_DSN_CATLG_YES,'Y'	cataloged	06300000	
ACTRC_DSN_CATLG_NO,'N'	not cataloged	06350000	
ACTRC_DSN_CATLG_FAILED,'F'	locate failed	06400000	
ACTRC_DSN_CATLG_UNKNOWN,'U'	no locate issued	06450000	
ACTRC_DSN_CYCLE,*,10,CH	primary vrs data set	06500000	
*	cycle number	06550000	
ACTRC_DSN_2CYCLE,*,10,CH	secondary vrs data set	06600000	
*	cycle number	06650000	
ACTRC_DSN_SUBCHAIN_DROP,*,1,CH	primary subchain drop	06700000	
*	reason	06750000	
ACTRC_DSN_2SUBCHAIN_DROP,*,1,CH	secondary subchain drop	06800000	
*	reason	06850000	
SKIP,33	reserved	06900000	
ACTRC_DSN_CHANGE,*,8	changes to data set details	06950000	
ACTRC_DSN_CHNG_VRS,=,1,CH	vital rec status	07000000	
*	ACTRC_YES,'Y'	yes	07050000
*	ACTRC_NO,'N'	no	07100000
ACTRC_DSN_CHNG_RETDATE,*,1,CH	retention date	07150000	
*	ACTRC_YES,'Y'	yes	07200000
*	ACTRC_NO,'N'	no	07250000
ACTRC_DSN_CHNG_MATCH,*,1,CH	matching VRS	07300000	
*	ACTRC_YES,'Y'	yes	07350000
*	ACTRC_NO,'N'	no	07400000
ACTRC_DSN_CHNG_SUBCHAIN,*,1,CH	retaining Subchain	07450000	
*	ACTRC_YES,'Y'	yes	07500000
*	ACTRC_NO,'N'	no	07550000
SKIP,4	reserved	07600000	
ACTRC_DSN_OLD_VITAL,*,1,CH	old vital record status	07650000	
*	ACTRC_YES,'Y'	yes	07700000
*	ACTRC_NO,'N'	no	07750000
ACTRC_DSN_NEW_VITAL,*,1,CH	new vital record status	07800000	

# EDGACTSY

*	ACTRC_YES,'Y'	yes	07850000
*	ACTRC_NO,'N'	no	07900000
	ACTRC_DSN_DROP,*,1,CH	reason for non-retention	07950000
	ACTRC_DSN_DROP_WHILECATALOG,'W'	WHILECATALOG	08000000
	ACTRC_DSN_DROP_UNTILEXPIRED,'U'	UNTILEXPIRED	08050000
	ACTRC_DSN_DROP_CYCLES,'C'	cycles exceeded	08100000
	ACTRC_DSN_DROP_DAYS,'D'	days since creation exceeded	08150000
	ACTRC_DSN_DROP_LASTREF,'L'	days since last reference	08200000
*		exceeded	08250000
	ACTRC_DSN_DROP_EXTRADAYS,'X'	days since subchain start	08300000
*		exceeded	08350000
	ACTRC_DSN_DROP_BYDAYSCYCLE,'B'	by-days-cycles exceeded	08400000
	ACTRC_DSN_DROP_NO_MATCH,'N'	No VRS match	08450000
	ACTRC_DSN_DROP_DUP_GDG,'G'	GDG cycle; duplicate GDG	08500000
	ACTRC_DSN_DROP_VOL_RELEASED,'V'	Volume released / scratch	08550000
	ACTRC_DSN_DROP_BLANK,' '		08600000
	ACTRC_DSN_NEW_LOC,*,8,CH	new required data set location	08650000
	ACTRC_DSN_OLD_RETDATE,*,10,CH	old data set retention date	08700000
*		Format: see DATEFORM parm	08750000
*		Special date formats:	08800000
*		WHILECATLG	08850000
*		CYCL/nnnnn	08900000
*		CATRETPD	08950000
	ACTRC_DSN_NEW_RETDATE,*,10,CH	new data set retention date	09000000
*		Format: see DATEFORM parm	09050000
*		Special date formats:	09100000
*		WHILECATLG	09150000
*		CYCL/nnnnn	09200000
*		CATRETPD	09250000
	ACTRC_DSN_OLD_MATCH,*,113	old matching VRS	09300000
	ACTRC_DSN_OLD_MTYPE,=,1,CH	old primary VRS type	09350000
	ACTRC_DSN_OLD_MTYPE_DSN,'D'	data set name	09400000
	ACTRC_DSN_OLD_MTYPE_SMS,'S'	SMS management class	09450000
	ACTRC_DSN_OLD_MTYPE_VRS,'V'	VRS management value	09500000
	ACTRC_DSN_OLD_MTYPE_MIX,'M'	DSN and VRS mgmt value	09550000
	ACTRC_DSN_OLD_MTYPE_DSNSMS,'C'	DSN and SMS mgmt class	09600000
	ACTRC_DSN_OLD_MMASK,*,44,CH	old primary VRS mask	09650000
	ACTRC_DSN_OLD_MJOB,*,8,CH	old primary VRS job name	09700000
	ACTRC_DSN_OLD_M2MASK,*,8,CH	old second. VRS mask	09750000
	ACTRC_DSN_OLD_M2JOB,*,8,CH	old second. VRS job name	09800000
	ACTRC_DSN_OLD_MNAME,*,8,CH	old primary VRS subchain	09850000
*		name	09900000
	ACTRC_DSN_OLD_MDATE,*,10,CH	old primary VRS subchain	09950000
*		start date	10000000
	ACTRC_DSN_OLD_M2NAME,*,8,CH	old second. VRS subchain	10050000
*		name	10100000
	ACTRC_DSN_OLD_M2DATE,*,10,CH	old second. VRS subchain	10150000
*		start date	10200000
	SKIP,8	reserved	10250000
	ACTRC_DSN_NEW_MATCH,*,113	new matching VRS	10300000
	ACTRC_DSN_NEW_MTYPE,=,1,CH	old primary VRS type	10350000
	ACTRC_DSN_NEW_MTYPE_DSN,'D'	data set name	10400000
	ACTRC_DSN_NEW_MTYPE_SMS,'S'	SMS management class	10450000
	ACTRC_DSN_NEW_MTYPE_VRS,'V'	VRS management value	10500000
	ACTRC_DSN_NEW_MTYPE_MIX,'M'	DSN and VRS mgmt value	10550000
	ACTRC_DSN_NEW_MTYPE_DSNSMS,'C'	DSN and SMS mgmt class	10550010
	ACTRC_DSN_NEW_MMASK,*,44,CH	new primary VRS mask	10600000
	ACTRC_DSN_NEW_MJOB,*,8,CH	new primary VRS job name	10650000
	ACTRC_DSN_NEW_M2MASK,*,8,CH	new second. VRS mask	10700000
	ACTRC_DSN_NEW_M2JOB,*,8,CH	new second. VRS job name	10750000
	ACTRC_DSN_NEW_MNAME,*,8,CH	new primary VRS subchain	10800000
*		name	10850000
	ACTRC_DSN_NEW_MDATE,*,10,CH	new primary VRS subchain	10900000
*		start date	10950000
	ACTRC_DSN_NEW_M2NAME,*,8,CH	new second. VRS subchain	11000000
*		name	11050000
	ACTRC_DSN_NEW_M2DATE,*,10,CH	new second. VRS subchain	11100000

```

*                               start date          11150000
      SKIP,8                      reserved           11200000
      ACTRC_DSN_END,*             End of data set record 11250000
*****                          11300000
* End of ACTRC                    * 11350000
*****                          11400000

```

## EDGEXTSY: Extract Data Set Symbols

EDGEXTSY provides the DFSORT symbol mapping for the DFSMSrmm extract data set produced during inventory management as follows:

```

***** 00050000
*                               * 00100000
* RMM Inventory Management Extract File Record * 00150000
* DFSORT Symbol mapping * 00200000
* * 00250000
***** 00300000
* OS/390 DFSMSrmm V2R10 * 00350000
* * 00400000
*PROPRIETARY V3 STATEMENT * 00450000
*LICENSED MATERIALS - PROPERTY OF IBM * 00500000
*"RESTRICTED MATERIALS OF IBM" * 00550000
*5647-A01 * 00600000
*(C) COPYRIGHT 1993,2000 IBM CORP. * 00650000
*STATUS = HDZ11F0 * 00700000
*END PROPRIETARY V3 STATEMENT * 00750000
* * 00800000
***** 00850000
* SEE "OS/390 DFSMSrmm REPORTING * 00900000
* GUIDE (SC26-7335)" FOR FIELD DETAILS ON RMM RECORDS. * 00950000
* SEE "DFSORT APG (SC33-4035)" FOR DETAILS OF USING SYMBOLS. * 01000000
***** 01050000
* CHANGE ACTIVITY: * 01100000
* $LG=RMM210 ,210,990901,CHK: DFSORT Symbols 1LGA * 01133300
* $K1=K160481,210,991007,MW: New Extract Header Record @K1A * 01166600
***** 01200000
      EXTRACT_RDW,1,4,BI record descriptor word 01205100
      RDRDW,=,4,BI 01210200
      RHRDW,=,4,BI @K1A 01212700
      RKRDW,=,4,BI 01215300
      RORDW,=,4,BI 01220400
      RPRDW,=,4,BI 01225500
      RRRDW,=,4,BI 01230600
      RSRDW,=,4,BI 01235700
      RVRDW,=,4,BI 01240800
      EXTRACT_RDW_LEN,=,2,BI record descriptor - length 01245900
      RDRDW_LEN,=,2,BI 01251000
      RHRDW_LEN,=,2,BI @K1A 01253500
      RKRDW_LEN,=,2,BI 01256100
      RORDW_LEN,=,2,BI 01261200
      RPRDW_LEN,=,2,BI 01266300
      RRRDW_LEN,=,2,BI 01271400
      RSRDW_LEN,=,2,BI 01276500
      RVRDW_LEN,=,2,BI 01281600
      EXTRACT_RDW_SEG,*,2,BI record descriptor - segment 01286700
      RDRDW_SEG,=,2,BI 01291800
      RHRDW_SEG,=,2,BI @K1A 01294300
      RKRDW_SEG,=,2,BI 01296900
      RORDW_SEG,=,2,BI 01302000
      RPRDW_SEG,=,2,BI 01307100
      RRRDW_SEG,=,2,BI 01312200
      RSRDW_SEG,=,2,BI 01317300
      RVRDW_SEG,=,2,BI 01322400
***** 01327500
* RMM Extract File records * 01332600
***** 01337700

```

EDGEXTSY

```

EXTRACT,*,760 01342800
***** 01350000
* Common record prefix * 01400000
***** 01450000
EXTRACT_PREFIX,=,4 01500000
  EXTRACT_TYPID,=,1,CH 01550000
  RDTYPE,=,1,CH 01562000
  RHTYPE,=,1,CH @K1A 01559300
  RKTYPE,=,1,CH 01562400
  ROTYPE,=,1,CH 01568600
  RPTYPE,=,1,CH 01574800
  RRTYPE,=,1,CH 01581000
  RSTYPE,=,1,CH 01587200
  RVTYPE,=,1,CH 01593400
  RDTYPEID,'D' TYPE 'D' - DATA SET RECORD 01600000
  RHTYPEID,'H' TYPE 'H' - HEADER RECORD @K1A 01625000
  RKTYPEID,'K' TYPE 'K' - VRS RECORD 01650000
  ROTYPEID,'O' TYPE 'O' - OWNER RECORD 01700000
  RPTYPEID,'P' TYPE 'P' - PRODUCT RECORD 01750000
  RRTYPEID,'R' TYPE 'R' - RACK RECORD 01800000
  RSTYPEID,'S' TYPE 'S' - BIN RECORD 01850000
  RVTYPEID,'V' TYPE 'V' - VOLUME RECORD 01900000
***** 01950000
* Start overlay area * 02000000
***** 02050000
EXTRACT_DATA,* 02100000
***** 02150000
* RDEXT: This file maps the information produced for data set * 02200000
* records in the RMM report extract file. * 02250000
* In this record the date format depends on the DATEFORM * 02300000
* selected by EDGHSKP execution parameter or the parmlib * 02350000
* specified value. * 02400000
***** 02450000
POSITION,EXTRACT_DATA start at EXTRACT_DATA 02500000
  SKIP,3 RESERVED 02550000
  RDDSNAM,*,44,CH DATA SET NAME 02600000
***** 02650000
* Start of common fields: * 02700000
* The common fields are in the same place in each record type * 02750000
* in the report extract file. This allows common processing of * 02800000
* these field across multiple record types. * 02850000
***** 02900000
  RDCRDATE,*,10,CH CREATE DATE of data set record 02950000
  RDCRTIME,*,6,CH CREATE TIME (HHMMSS) of data set 03000000
  RDCRSID,*,8,CH CREATE SYSTEM ID of data set record 03050000
  RDLCDATE,*,10,CH LAST CHANGE DATE of data set record 03100000
  RDLCTIME,*,6,CH LAST CHANGE TIME (HHMMSS) of data set record 03150000
  RDLUID,*,8,CH LAST CHANGE USER ID of data set record 03200000
  RDLCSID,*,8,CH LAST CHANGE SYSTEM ID of data set record 03250000
***** 03300000
* End of common fields * 03350000
***** 03400000
  RDVOLSER,*,6,CH VOLUME SERIAL NUMBER 03450000
  RDDSNSEQ,*,4,CH DATA SET SEQUENCE NUMBER 03500000
  RDUNITAD,*,4,CH CREATING DRIVE ADDRESS 03550000
  RDRECFM,*,4,CH RECORD FORMAT 03600000
  RDVOLSEQ,*,4,CH VOLUME SEQUENCE NUMBER 03650000
  RDLRECL,*,6,CH LOGICAL RECORD LENGTH 03700000
  RDBLKSZ,*,6,CH PHYSICAL BLOCK SIZE 03750000
  RDBLKCNT,*,8,CH BLOCK COUNT 03800000
  RDOWNSN,*,8,CH DATA SET OWNER 03850000
  RDSECLV,*,8,CH SECURITY LEVEL - SHORT 03900000
  RDSECLNG,*,30,CH SECURITY LEVEL - LONG 03950000
  RDCOMP,*,1,CH COMPACTION USED 04000000
  RDYES,'Y' YES 04050000
  RDNO,'N' NO 04100000
  RDLRDDAT,*,10,CH DATE DATA SET LAST READ 04150000

```

RDWLTAT,*,10,CH	DATE DATA SET LAST WRITTEN	04200000
RDMCNAME,*,8,CH	SMS MANAGEMENT CLASS	04250000
RDVRSVAL,*,8,CH	VRS MANAGEMENT VALUE	04300000
RDSGNAME,*,8,CH	SMS STORAGE GROUP NAME	04350000
RDSCNAME,*,8,CH	SMS STORAGE CLASS NAME	04400000
RDDCNAME,*,8,CH	SMS DATA CLASS NAME	04450000
RDCRTJBN,*,8,CH	CREATING JOB NAME	04500000
RDVRSSTYP,*,1,CH	MATCHING VRS TYPE FLAG	04550000
RDVD,'D'	DATASET	04600000
RDVS,'S'	SMSMC	04650000
RDVV,'V'	VRSMV	04700000
RDVM,'M'	DATASET AND VRSMV	04750000
RDVC,'C'	DATASET AND SMSMC	04800000
RDVRSNAM,*,44,CH	MATCHING VRS NAME	04850000
RDVRSJBN,*,8,CH	MATCHING VRS JOB NAME MASK	04900000
RDRETDAT,*,10,CH	RETENTION DATE	04950000
RDSTEPNM,*,8,CH	CREATING STEP NAME	05000000
RDDDDNAME,*,8,CH	CREATING DD NAME	05050000
*****		05100000
* RDMDMVID: Is a unique token assigned to every volume and every	*	05150000
* data set in a multi-volume set.	*	05200000
*****		05250000
RDMDMVID,*,8,CH	MULTI-DSET MULTI-VOL ID	05300000
*****		05350000
* Data set size: This is calculated by multiplying the blocksize	*	05400000
* by the number of blocks.	*	05450000
*****		05500000
RDDSSIZE,*,10,CH	APPROX. SIZE OF FILE KBYTES	05550000
RDABEND,*,1,CH	DSET CLOSED BY ABEND	05600000
* RDYES,'Y'	YES	05650000
* RDNO,'N'	NO	05700000
*****		05750000
* RDCAT: Set to 'Y' when opened after allocation determines VOLSER	*	05800000
* by reference to the catalog. Once set to 'Y' it is never	*	05850000
* changed.	*	05900000
*****		05950000
RDCAT,*,1,CH	DSET USED VIA CATALOG Y/N	06000000
* RDYES,'Y'	YES	06050000
* RDNO,'N'	NO	06100000
RDVRSR,*,1,CH	RETAINED BY VRS	06150000
* RDYES,'Y'	YES	06200000
* RDNO,'N'	NO	06250000
SKIP,3	RESERVED	06300000
RDLABNO,*,4,CH	LABEL NUMBER LABEL=(xx,11)	06350000
*****		06400000
* Primary VRS subchain name:	*	06450000
* This is the retaining VRS in the matching	*	06500000
* primary VRS chain. It is set only if retained	*	06550000
* by a NAME VRS subchain in the primary VRS.	*	06600000
*****		06650000
RDVRS SCH,*,8,CH	Primary VRS subchain NAME	06700000
RDVRSXDS,*,10,CH	Primary VRS subchain start date	06750000
*****		06800000
* Retaining Secondary VRS name:	*	06850000
* Matching vrs name and job name are included	*	06900000
* where a secondary VRS also matches.	*	06950000
* The retaining VRS subchain NAME in this	*	07000000
* matching VRS is set if it is used to retain	*	07050000
* the data set.	*	07100000
*****		07150000
RD2VNME,*,8,CH	Secondary VRS name mask	07200000
RD2VJBN,*,8,CH	Secondary VRS jobname mask	07250000
RD2VSCH,*,8,CH	Secondary VRS subchain NAME	07300000
RD2VXDS,*,10,CH	Secondary VRS subchain startdate	07350000
*****		07400000
* END OF REPORT EXTRACT DATA SET NAME RECORD	*	07450000
*****		07500000



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RDRCEM,*          END OF RDEXT          07550000
*
*
*****          07551300
* RHEXT: This macro maps the information in the extract file * 07552600
* header records. * 07553900
* In this record the date format depends on the DATEFORM * 07555200
* selected by EDGHSKP execution parameter or the parmlib * 07556500
* specified value. * 07557800
* * 07559100
*****          07560400
POSITION,EXTRACT_DATA          start at EXTRACT_DATA @K1A 07561700
SKIP,47          RESERVED          @K1A 07563000
*****          07564300
* Start of common fields: * 07565600
* The common fields are in the same place in each record type * 07566900
* in the report extract file. This allows common processing of * 07568200
* these field across multiple record types. * 07569500
*****          07570800
RHCRCRDATE,*,10,CH          CREATE DATE of header record @K1A 07572100
RHCRCRTIME,*,6,CH          CREATE TIME HHMMSS of header record @K1A 07573400
RHCRCRSID,*,8,CH          CREATE SYSTEM ID of header record @K1A 07574700
SKIP,10          RESERVED          @K1A 07576000
SKIP,6          RESERVED          @K1A 07577300
SKIP,8          RESERVED          @K1A 07578600
SKIP,8          RESERVED          @K1A 07579900
*****          07581200
* End of common fields * 07582500
*****          07583800
RHDATEFORM,*,1,CH          Format of all dates in the extract file @K1A 07585100
RHDATEFORM_NOTSET,' ' @K1A 07586400
RHDATEFORM_EUROPEAN,'E' @K1A 07587700
RHDATEFORM_AMERICAN,'A' @K1A 07589000
RHDATEFORM_ISO,'I' @K1A 07590300
RHDATEFORM_JULIAN,'J' @K1A 07591600
SKIP,100          RESERVED          @K1A 07592900
*****          07594200
* END OF REPORT EXTRACT HEADER RECORD * 07595500
*****          07596800
RHRCEM,*          END OF RHEXT          @K1A 07598100
*
*
*****          07600000
* RKEXT: This file maps the information produced for VRS * 07700000
* records in the RMM report extract file. * 07750000
* In this record the date format depends on the DATEFORM * 07800000
* selected by EDGHSKP execution parameter or the parmlib * 07850000
* specified value. * 07900000
*****          07950000
POSITION,EXTRACT_DATA          start at EXTRACT_DATA 08000000
RKTYPE2,*,1,CH          VRS TYPE 08050000
RKTYPVOL,'V'          VOLUME VRS 08100000
RKTYPDSN,'D'          DATA SET VRS 08150000
RKTYPNAM,'N'          NAME VRS 08200000
SKIP,1          RESERVED 08250000
RKDSNAME,*,44,CH          DATA SET NAME MASK 08300000
RKNAME,=,8,CH          VRS NAME 08350000
RKVOLSER,=,6,CH          VOLUME SERIAL MASK 08400000
SKIP,38          RESERVED 08450000
RKGENKEY,*,1,CH          DATA SET/VOLUME MASK 08500000
RKYES,'Y'          YES 08550000
RKNO,'N'          NO 08600000
*****          08650000
* Start of common fields: * 08700000
* The common fields are in the same place in each record type * 08750000
* in the report extract file. This allows common processing of * 08800000
* these field across multiple record types. * 08850000
*****          08900000
RKCRCRDATE,*,10,CH          CREATE DATE of VRS record 08950000
RKCRCRTIME,*,6,CH          CREATE TIME (HHMMSS) of VRS record 09000000

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RKCRSID,*,8,CH	CREATE SYSTEM ID of VRS record	09050000
RKLCDATE,*,10,CH	LAST CHANGE DATE of VRS record	09100000
RKLCIME,*,6,CH	LAST CHANGE TIME (HHMMSS) of VRS record	09150000
RKLCUID,*,8,CH	LAST CHANGE USER ID of VRS record	09200000
RKLCSID,*,8,CH	LAST CHANGE SYSTEM ID of VRS record	09250000
*****		
* End of common fields		* 09350000
*****		
RKCRJBN,*,8,CH	JOBNAME MASK	09450000
RKRETNC,*,1,CH	RETAIN BASED ON NUMBER OF CYCLES	09500000
* RKEYS, 'Y'	YES	09550000
* RKN, 'N'	NO	09600000
RKRETND,*,1,CH	RETAIN BASED ON NUMBER OF ELAPSED DAYS	09650000
* RKEYS, 'Y'	YES	09700000
* RKN, 'N'	NO	09750000
RKRETNR,*,1,CH	RETAIN BASED ON NUMBER OF DAYS UNREFERENCED	09800000
* RKEYS, 'Y'	YES	09850000
* RKN, 'N'	NO	09900000
RKRETNW,*,1,CH	RETAIN ONLY WHILE DATA SET IS CATALOGED	09950000
* RKEYS, 'Y'	YES	10000000
* RKN, 'N'	NO	10050000
RKRETNX,*,1,CH	RETAIN UNTIL EXPIRED	10100000
* RKEYS, 'Y'	YES	10150000
* RKN, 'N'	NO	10200000
RKRETND,*,1,CH	RETAIN BASED ON EXTRA DAYS SINCE VRS MATCHED	10250000
* RKEYS, 'Y'	YES	10300000
* RKN, 'N'	NO	10350000
RKRETNC,*,1,CH	RETAIN BASED ON BYDAYSCYCLE (ALL COPIES ON 1 DAY ARE TREATED AS A CYCLE)	10400000
* RKEYS, 'Y'	YES	10450000
* RKN, 'N'	NO	10500000
RKRETAND,*,1,CH	RETENTION MUST BE ANDED WITH THE NEXT VRS IN THE CHAIN	10600000
* RKEYS, 'Y'	YES	10650000
* RKN, 'N'	NO	10700000
SKIP,5	RESERVED	10750000
RKDSNG,*,1,CH	DATA SET NAME MASK IS FOR A GDG	10800000
RKG, 'Y'	GDG	10850000
RKPG, 'P'	PSEUDO-GDG	10900000
RKNG, 'N'	NOGDG	10950000
RKLOCTYP,*,1,CH	LOCATION TYPE	11000000
RKAUT, 'A'	AUTO	11050000
RKMAN, 'M'	MANUAL	11100000
RKSTR, 'S'	STORE	11150000
RKBLK, ' '	BLANK	11200000
RKLOC,*,8,CH	NAME OF LOCATION TO BE STORED	11250000
RKNEXT,*,8,CH	NAME OF NEXT VRS IN THE CHAIN	11300000
RKCOUNT,*,5,CH	VITAL RECORD COUNT (NUMBER OF CYCLES OR ELAPSED DAYS OR VOLUMES TO BE KEPT IN TOTAL)	11350000
* RKSTNUM,*,5,CH	STORE KEEP NUMBER (NUMBER OF CYCLES OR DAYS OR VOLUMES TO BE KEPT IN STORE)	11400000
* RKDELAY,*,5,CH	NUMBER OF ELAPSED DAYS DELAY BEFORE BEING SELECTED FOR THE FIRST LOCATION	11450000
* RKOWNER,*,8,CH	VITAL RECORD OWNER	11500000
RKDELDT,*,10,CH	DATE THE VRS IS TO BE DELETED BY RMM	11600000
RKDESC,*,30,CH	DESCRIPTION	11700000
RKRELOPT,*,8,CH	VRS RELEASE OPTIONS	11800000
RKRELIXD,*,1,CH	IGNORE EXPDT	11850000
* RKEYS, 'Y'	YES	11900000
* RKN, 'N'	NO	11950000
RKRELSI,*,1,CH	SCRATCH IMMEDIATE	12000000
* RKEYS, 'Y'	YES	12050000
* RKN, 'N'	NO	12100000
SKIP,6	RESERVED	12150000
*****		
* END OF REPORT EXTRACT VRS RECORD		* 12200000
*****		
		12300000
		12350000

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RKRCEM,*          END OF RKEXT                      12400000
*                                                         12450000
***** 12500000
* ROEXT: This file maps the information produced for owner * 12550000
* records in the RMM report extract file. * 12600000
* In this record the date format depends on the DATEFORM * 12650000
* selected by EDGHSKP execution parameter or the parmlib * 12700000
* specified value. * 12750000
***** 12800000
POSITION,EXTRACT_DATA start at EXTRACT_DATA 12850000
SKIP,3 RESERVED 12900000
ROOWNER,*,8,CH OWNER ID 12950000
SKIP,36 RESERVED 13000000
***** 13050000
* Start of common fields: * 13100000
* The common fields are in the same place in each record type * 13150000
* in the report extract file. This allows common processing of * 13200000
* these field across multiple record types. * 13250000
***** 13300000
ROCRDATE,*,10,CH CREATE DATE of owner record 13350000
ROCRTIME,*,6,CH CREATE TIME (HHMMSS) of owner record 13400000
ROCRSID,*,8,CH CREATE SYSTEM ID of owner record 13450000
ROLCDATE,*,10,CH LAST CHANGE DATE of owner record 13500000
ROLCTIME,*,6,CH LAST CHANGE TIME (HHMMSS) of owner record 13550000
ROLGUID,*,8,CH LAST CHANGE USER ID of owner record 13600000
ROLCSID,*,8,CH LAST CHANGE SYSTEM ID of owner record 13650000
***** 13700000
* End of common fields * 13750000
***** 13800000
ROOWNSUR,*,20,CH OWNER LAST NAME 13850000
ROOWNFST,*,20,CH OWNER FIRST NAME 13900000
ROOWNDEP,*,40,CH OWNER DEPARTMENT 13950000
ROOWNAD1,*,40,CH OWNER ADDRESS LINE 1 14000000
ROOWNAD2,*,40,CH OWNER ADDRESS LINE 2 14050000
ROOWNAD3,*,40,CH OWNER ADDRESS LINE 3 14100000
ROOWNNTIN,*,8,CH OWNER INTERNAL TELEPHONE NUMBER 14150000
ROOWNTEX,*,20,CH OWNER EXTERNAL TELEPHONE NUMBER 14200000
ROOWNUID,*,8,CH OWNER ELECTRONIC USERID 14250000
ROOWNNOD,*,8,CH OWNER ELECTRONIC NODE NAME 14300000
ROOWNVOL,*,6,CH TOTAL NUMBER OF OWNED VOLUMES 14350000
***** 14400000
* END OF REPORT EXTRACT OWNER RECORD * 14450000
***** 14500000
RORCEM,*          END OF ROEXT                      14550000
*                                                         14600000
***** 14650000
* RPEXT: This file maps the information produced for product * 14700000
* records in the RMM report extract file. * 14750000
* In this record the date format depends on the DATEFORM * 14800000
* selected by EDGHSKP execution parameter or the parmlib * 14850000
* specified value. * 14900000
***** 14950000
POSITION,EXTRACT_DATA start at EXTRACT_DATA 15000000
SKIP,3 RESERVED 15050000
RPPNUM,*,8,CH PRODUCT NUMBER (NNNN-CCC) 15100000
RPVER,*,6,CH VERSION/RELEASE/MOD NUMBER 15150000
* (vvrmm) where vv - version, rr - release, 15200000
* mm - modification level 15250000
SKIP,30 RESERVED 15300000
***** 15350000
* Start of common fields: * 15400000
* The common fields are in the same place in each record type * 15450000
* in the report extract file. This allows common processing of * 15500000
* these field across multiple record types. * 15550000
***** 15600000
RPCRDATE,*,10,CH CREATE DATE of product record 15650000
RPCRTIME,*,6,CH CREATE TIME (HHMMSS) of product record 15700000

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RPCRSID,*,8,CH      CREATE SYSTEM ID of product record      15750000
RPLCDATE,*,10,CH   LAST CHANGE DATE of product record      15800000
RPLCTIME,*,6,CH    LAST CHANGE TIME (HHMMSS) of product record 15850000
RPLCUID,*,8,CH     LAST CHANGE USER ID of product record    15900000
RPLCSID,*,8,CH     LAST CHANGE SYSTEM ID of product record  15950000
*****
* End of common fields *                      16000000
*****
RPPPOWN,*,8,CH     PRODUCT OWNER ID                          16100000
RPPpname,*,30,CH   PRODUCT NAME                            16150000
RPPDESC,*,30,CH   PRODUCT DESCRIPTION                16200000
RPVOLNO,*,4,CH    NUMBER OF PRODUCT VOLUMES      16250000
*****
* END OF REPORT EXTRACT PRODUCT RECORD *      16300000
*****
RPRCEND,*          END OF RPEXT                    16350000
*
*****
* RREXT: This file maps the information produced for rack number * 16400000
* records in the RMM report extract file. *      16450000
* In this record the date format depends on the DATEFORM * 16500000
* selected by EDGHSKP execution parameter or the parmlib * 16600000
* specified value. *                          16650000
*****
POSITION,EXTRACT_DATA start at EXTRACT_DATA 16700000
RRTYPE2,*,1,CH     RACK RECORD ID                          16750000
RRTYPEE,'E'        EMPTY RACK                    17000000
RRTYPEF,'F'        FREE/SCRATCH RACK              17050000
RRTYPEU,'U'        IN USE RACK                    17100000
SKIP,2             RESERVED                       17150000
RRRACK,*,6,CH     RACK NUMBER                     17200000
RRNAME,*,8,CH     MEDIA NAME                       17250000
RRUNIT,*,8,CH     Old name for RRNAME field      17300000
SKIP,30           RESERVED                       17350000
*****
* Start of common fields: *                      17400000
* The common fields are in the same place in each record type * 17450000
* in the report extract file. This allows common processing of * 17500000
* these field across multiple record types. *      17550000
*****
RRCRDATE,*,10,CH  CREATE DATE of rack record      17600000
RRCRTIME,*,6,CH   CREATE TIME (HHMMSS) of rack record 17650000
RRCRSID,*,8,CH    CREATE SYSTEM ID of rack record    17700000
RRLCDATE,*,10,CH  LAST CHANGE DATE of rack record    17750000
RRLCTIME,*,6,CH   LAST CHANGE TIME (HHMMSS) of rack record 17800000
RRLCUID,*,8,CH    LAST CHANGE USER ID of rack record  17850000
RRLCSID,*,8,CH    LAST CHANGE SYSTEM ID of rack record 17900000
*****
* End of common fields *                      17950000
*****
RRVOLSER,*,6,CH   ASSIGNED VOLUME SERIAL NUMBER 18000000
*****
* END OF REPORT EXTRACT RACK NUMBER RECORD *      18050000
*****
RRCRCEND,*       END OF RREXT                    18100000
*
*****
* RSEXT: This file maps the information produced for bin number * 18150000
* records in the RMM report extract file. *      18200000
* In this record the date format depends on the DATEFORM * 18250000
* selected by EDGHSKP execution parameter or the parmlib * 18300000
* specified value. *                          18350000
*****
POSITION,EXTRACT_DATA start at EXTRACT_DATA 18400000
RSTYPE2,*,1,CH    BIN RECORD ID                  18450000
RSTYPER,'E'       EMPTY BIN                      18500000
RSTYPES,'U'       ASSIGNED BIN                   18550000

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RSRSTID,*,8,CH      STORAGE LOCATION NAME      19100000
SKIP,1              RESERVED                19150000
RSBINNO,*,6,CH     BIN NUMBER                19200000
RSBMEDN,*,8,CH     BIN MEDIA NAME            19250000
SKIP,23            RESERVED                19300000
*****
* Start of common fields:                * 19400000
* The common fields are in the same place in each record type * 19450000
* in the report extract file. This allows common processing of * 19500000
* these field across multiple record types. * 19550000
*****
RSCRDATE,*,10,CH   CREATE DATE of bin record   19600000
RSCRTIME,*,6,CH    CREATE TIME (HHMMSS) of bin record 19700000
RSCRSID,*,8,CH     CREATE SYSTEM ID of bin record 19750000
RSLCDATE,*,10,CH   LAST CHANGE DATE of bin record 19800000
RSLCTIME,*,6,CH    LAST CHANGE TIME (HHMMSS) of bin record 19850000
RSLCUID,*,8,CH     LAST CHANGE USER ID of bin record 19900000
RSLCSID,*,8,CH     LAST CHANGE SYSTEM ID of bin record 19950000
*****
* End of common fields                    * 20000000
*****
RSVOLSER,*,6,CH    ASSIGNED VOLUME SERIAL NUMBER 20050000
*****
* END OF REPORT EXTRACT STORAGE LOCATION BIN RECORD          20100000
*****
RSRCEND,*          END OF RSEXT                20150000
*                                                         20200000
*****
* RVEXT: This file maps the information produced for volume * 20250000
* records in the RMM report extract file.                    * 20300000
* In this record the date format depends on the DATEFORM * 20350000
* selected by EDGHSKP execution parameter or the parmlib * 20400000
* specified value.                                           * 20450000
*****
POSITION,EXTRACT_DATA start at EXTRACT_DATA 20500000
SKIP,3             RESERVED                20550000
RVVOLSER,*,6,CH    VOLUME SERIAL NUMBER    20600000
RVPVOL,*,6,CH     PREVIOUS VOLUME IN SEQUENCE 20650000
RVNVOL,*,6,CH     NEXT VOLUME IN SEQUENCE  20700000
SKIP,6            RESERVED                20750000
*****
* RVMDMVID: Is a unique token assigned to every volume and every * 20800000
* data set in a multi-volume set.                             * 20850000
*****
RVMDMVID,*,8,CH    MULTI-DSET MULT-VOL ID  20900000
SKIP,12           RESERVED                20950000
*****
* Start of common fields:                * 21000000
* The common fields are in the same place in each record type * 21050000
* in the report extract file. This allows common processing of * 21100000
* these field across multiple record types. * 21150000
*****
RVCRDATE,*,10,CH   CREATE DATE of volume record 21200000
RVCRTIME,*,6,CH    CREATE TIME HHMMSS of volume record 21250000
RVCRSID,*,8,CH     CREATE SYSTEM ID of volume record 21300000
RVLCDATE,*,10,CH   LAST CHANGE DATE of volume record 21350000
RVLCTIME,*,6,CH    LAST CHANGE TIME HHMMSS of volume record 21400000
RVLCUID,*,8,CH     LAST CHANGE USER ID of volume record 21450000
RVLCSID,*,8,CH     LAST CHANGE SYSTEM ID of volume record 21500000
*****
* End of common fields                    * 21550000
*****
RVEXPDTO,*,10,CH   EXPIRATION DATE - original 21600000
RVEXPDT,*,10,CH    EXPIRATION DATE - current  21650000
RVDEN,*,4,CH       RECORDING DENSITY        21700000
RVCOMP,*,1,CH      COMPACTION USED          21750000
RVYES,'Y'          YES                      21800000

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RVNO,'N'	NO	22450000
RVDSNNO,*,4,CH	NUMBER OF DATASETS ON VOLUME	22500000
RVTUSE,*,10,CH	TAPE USAGE IN KBYTES	22550000
RVUSE,*,4,CH	VOLUME USE COUNT	22600000
RVLABNO1,*,4,CH	LABEL NO OF FIRST FILE	22650000
RVSTORID,*,8,CH	CURRENT LOCATION NAME	22700000
RVSHL,'SHELF'	SHELF	22750000
RVLOC,'LOCAL'	LOCAL	22800000
RVREM,'REMOTE'	REMOTE	22850000
** CAN ALSO BE:		22900000
** DISTANT INSTALLATION DEFINED STORE		22950000
** SMS-DEFINED LIBRARY NAME		23000000
RVDEST,*,8,CH	DESTINATION NAME	23050000
* RVLOC,'LOCAL'	LOCAL	23100000
* RVREM,'REMOTE'	REMOTE	23150000
** CAN ALSO BE:		23200000
** DISTANT INSTALLATION DEFINED STORE		23250000
** SMS-DEFINED LIBRARY NAME		23300000
*****		23350000
* Bin Numbers: If a volume is not moving (RVTRANS=N), and is in a	*	23400000
* storage location, RVSTBIN contains the current bin	*	23450000
* number and RVOBIN the bin number in the previous	*	23500000
* location.	*	23550000
* If a volume is moving (RVTRANS=Y), and moving to a	*	23600000
* storage location, RVSTBIN contains the target bin	*	23650000
* number and RVOBIN the bin number in the source	*	23700000
* location.	*	23750000
*****		23800000
RVSTBIN,*,6,CH	BIN NUMBER	23850000
RVOBIN,*,6,CH	PREVIOUS BIN NUMBER	23900000
RVSTDATE,*,10,CH	MOVEMENT TRACKING DATE	23950000
RVRETDAT,*,10,CH	RETENTION DATE CALCULATED BY VRS PROCESSING	24000000
RVLONLOC,*,8,CH	LOAN LOCATION	24050000
RVOLNLOC,*,8,CH	PREVIOUS LOAN LOCATION	24100000
RVLRDDAT,*,10,CH	DATE VOLUME LAST READ	24150000
RVLWTDAT,*,10,CH	DATE VOLUME LAST WRITTEN	24200000
*****		24250000
* Assigned date and time:	*	24300000
* These fields are set each time a volume changes either from	*	24350000
* or to scratch status.	*	24400000
*****		24450000
RVASDATE,*,10,CH	ASSIGNED DATE	24500000
RVASTIME,*,6,CH	ASSIGNED TIME HHMMSS	24550000
RVOWNID,*,8,CH	VOLUME OWNER USERID	24600000
RVCROID,*,8,CH	CREATING USERID	24650000
RVCRJOB,*,8,CH	CREATING JOBNAME	24700000
RVSECLEV,*,8,CH	SECURITY LEVEL - SHORT	24750000
RVSECLNG,*,30,CH	SECURITY LEVEL - LONG	24800000
RVVOLSEQ,*,4,CH	VOLUME SEQUENCE NUMBER	24850000
RVSTATUS,*,8,CH	VOLUME STATUS	24900000
RVNST,'MASTER'	MASTER	24950000
RVUSR,'USER'	USER	25000000
RVSCR,'SCRATCH'	SCRATCH	25050000
RVINI,'INIT'	INIT	25100000
RVENT,'ENTRY'	ENTRY	25150000
RVPENDRS,*,1,CH	VOLUME PENDING RELEASE	25200000
* RVMST,'Y'	YES	25250000
* RVNO,'N'	NO	25300000
RVVRS,*,1,CH	VOLUME RETAINED BY VRS	25350000
* RVMST,'Y'	YES	25400000
* RVNO,'N'	NO	25450000
RVLOAN,*,1,CH	VOLUME ON LOAN	25500000
* RVMST,'Y'	YES	25550000
* RVNO,'N'	NO	25600000
RVOPEN,*,1,CH	VOLUME IS OPENED	25650000
* RVMST,'Y'	YES	25700000
* RVNO,'N'	NO	25750000

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RVOCER,* ,1,CH	VOLUME RECORDED BY O/C/EOV	25800000
* R VYES,'Y'	YES	25850000
* RVNO,'N'	NO	25900000
RVDEFRET,* ,1,CH	PARMLIB DEFAULT RETENTION USED TO GENERATE	25950000
*	THE VOLUME EXPDT	26000000
* R VYES,'Y'	YES	26050000
* RVNO,'N'	NO	26100000
RVPPTAPE,* ,1,CH	PROGRAM PRODUCT TAPE	26150000
* R VYES,'Y'	YES	26200000
* RVNO,'N'	NO	26250000
*****		26300000
* Labels: The RVLABEL field provides information about what label		* 26350000
* types may be written on the volume. If BLP output has		* 26400000
* been used, the volume may no longer match this		* 26450000
* information. Any BLP output beyond file 1 on a volume		* 26500000
* is not recorded by RMM.		* 26550000
*****		26600000
RVLABEL,* ,3,CH	LABEL TYPE	26650000
RVSL,'SL'	SL	26700000
RVAL,'AL'	AL	26750000
RVNL,'NL'	NL	26800000
RVSUL,'SUL'	SUL	26850000
RVAUL,'AUL'	AUL	26900000
RVBLP,* ,1,CH	VOLUME LAST WRITTEN BLP	26950000
* R VYES,'Y'	YES	27000000
* RVNO,'N'	NO	27050000
*****		27100000
* Release Actions: The following 5 fields list the actions to be		* 27150000
* set for the volume when it is released. These are		* 27200000
* not the current actions. See R VACTION for the		* 27250000
* pending actions.		* 27300000
*****		27350000
RVRETS,* ,8,CH	RETURN ACTION	27400000
RVOWN,'OWNER'	OWNER	27450000
* RVSCR,'SCRATCH'	SCRATCH	27500000
RVREPL,* ,1,CH	REPLACE ON RELEASE	27550000
* R VYES,'Y'	YES	27600000
* RVNO,'N'	NO	27650000
RVINIT,* ,1,CH	REINITIALISE	27700000
* R VYES,'Y'	YES	27750000
* RVNO,'N'	NO	27800000
RVERASE,* ,1,CH	SECURITY ERASE	27850000
* R VYES,'Y'	YES	27900000
* RVNO,'N'	NO	27950000
RVNTFY,* ,1,CH	NOTIFY OWNER	28000000
* R VYES,'Y'	YES	28050000
* RVNO,'N'	NO	28100000
RVOWNAC,* ,1,CH	OWNER ACCESS	28150000
RVRD,'R'	READ	28200000
RVUPD,'U'	UPDATE	28250000
RVADD,'A'	ADD	28300000
RVUSERAC,* ,1,CH	USER ACCESS	28350000
* RVRD,'R'	READ	28400000
* RVUPD,'U'	UPDATE	28450000
RVVMUSE,* ,1,CH	VM USE	28500000
* R VYES,'Y'	YES	28550000
* RVNO,'N'	NO	28600000
RVMVSUSE,* ,1,CH	MVS USE	28650000
* R VYES,'Y'	YES	28700000
* RVNO,'N'	NO	28750000
RVNAME,* ,8,CH	MEDIA NAME	28800000
RVUNIT,* ,8,CH	Old name for RVNAME field	28850000
RVRACK,* ,6,CH	RACK NUMBER	28900000
RVTRERR,* ,4,CH	TEMPORARY READ ERRORS	28950000
RVTWERR,* ,4,CH	TEMPORARY WRITE ERRORS	29000000
RVPRERR,* ,4,CH	PERMANENT READ ERRORS	29050000
RVPWERR,* ,4,CH	PERMANENT WRITE ERRORS	29100000

*****		29150000
* Product Information: Includes number, release and feature code	*	29200000
*****		29250000
RVPPNUM,*,8,CH	PROGRAM PRODUCT NUMBER	29300000
RVVER,*,6,CH	VERSION/RELEASE/MOD NUMBER	29350000
RVFEAT,*,4,CH	FEATURE CODE	29400000
RVACCINF,*,40,CH	ACCOUNTING INFORMATION	29450000
RVUSEFLD,*,30,CH	USER DESCRIPTION	29500000
RVACCLST,*,3,CH	NUMBER OF ACCESS LIST ENTRIES	29550000
RVAUTIDS,*,96,CH	AUTHORISED USER IDS AREA	29600000
RVHLOC,*,8,CH	HOME LOCATION NAME	29650000
RVTRANS,*,1,CH	VOLUME IN TRANSIT	29700000
* RYYES, 'Y'	YES	29750000
* RVNO, 'N'	NO	29800000
RVLOCTYP,*,1,CH	LOCATION TYPE	29850000
RVAUT, 'A'	AUTO	29900000
RVMAN, 'M'	MANUAL	29950000
RVSTR, 'S'	STORE	30000000
RVBLK, ' '	BLANK	30050000
RVDESTYP,*,1,CH	DESTINATION TYPE	30100000
* RYAUT, 'A'	AUTO	30150000
* RYMAN, 'M'	MANUAL	30200000
* RYSTR, 'S'	STORE	30250000
* RYBLK, ' '	BLANK	30300000
RVOLOC,*,8,CH	THE PREVIOUS LOCATION NAME	30350000
RVSGNAME,*,8,CH	STORAGE GROUP NAME	30400000
RVMEDREC,*,8,CH	VOLUME RECORDING FORMAT	30450000
RV18, '18TRACK'	18 TRACK	30500000
RV36, '36TRACK'	36 TRACK	30550000
RV128, '128TRACK'	128 TRACK	30600000
RV256, '256TRACK'	256 TRACK	30650000
RVMEDTY,*,8,CH	VOLUME MEDIA TYPE	30700000
RVAST, '*'	*	30750000
RVCST, 'CST'	CST	30800000
RVEC, 'ECCST'	ECCST	30850000
RVHP, 'HPCT'	HPCT	30900000
RVEH, 'EHPCT'	EHPCT	30950000
*****		31000000
* EHPCT IS RESERVED FOR EXTENDED HIGH PERFORMANCE	*	31050000
* CARTRIDGE TAPE.	*	31100000
*****		31150000
RVMEDCMP,*,8,CH	COMPACTION TECHNIQUE	31200000
* RVAST, '*'	*	31250000
RVNON, 'NONE'	NONE	31300000
* RYYES, 'Y'	YES	31350000
RVMEDATR,*,8,CH	SPECIAL ATTRIBUTES	31400000
* RVNON, 'NONE'	NONE	31450000
RVRDC, 'RDCOMPAT'	RDCOMPAT	31500000
RVDSNAM1,*,44,CH	FIRST FILE DATA SET NAME	31550000
RVMVMODE,*,1,CH	MOVE MODE	31600000
* RYAUT, 'A'	AUTO	31650000
* RYMAN, 'M'	MANUAL	31700000
RVDSNREC,*,1,CH	DS RECORDING	31750000
* RYYES, 'Y'	YES	31800000
* RVNO, 'N'	NO	31850000
RVALVERS,*,2,CH	ANSI LABEL VERSION	31900000
RVALCUR,*,1,CH	CURRENT LABEL VERSION	31950000
RVALREQ,*,1,CH	REQUIRED LABEL VERSION	32000000
RVBMEDN,*,8,CH	BIN MEDIA NAME	32050000
RVOBMEDN,*,8,CH	PREVIOUS BIN MEDIA NAME	32100000
RVNLOC,*,8,CH	REQUIRED LOCATION NAME - AS DETERMINED BY	32150000
* VRS OR COMMAND		32200000
RVLUDEV,*,4,CH	LAST USED DRIVE	32250000
*****		32300000
* Pending Actions: The following fields list the actions required	*	32350000
* for the volume. See RVRETS for the actions set	*	32400000
* when the volume is released.	*	32450000



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*****		32500000
	RVACTION,*,8,CH	PENDING ACTIONS 32550000
	RVACTSCR,=,1,CH	RETURN TO SCRATCH 32600000
*	RVYES,'Y'	YES 32650000
*	RVNO,'N'	NO 32700000
	RVACTREP,*,1,CH	REPLACE VOLUME 32750000
*	RVYES,'Y'	YES 32800000
*	RVNO,'N'	NO 32850000
	RVACTRET,*,1,CH	RETURN TO OWNER 32900000
*	RVYES,'Y'	YES 32950000
*	RVNO,'N'	NO 33000000
	RVACTINI,*,1,CH	INITIALIZE 33050000
*	RVYES,'Y'	YES 33100000
*	RVNO,'N'	NO 33150000
	RVACTERA,*,1,CH	ERASE 33200000
*	RVYES,'Y'	YES 33250000
*	RVNO,'N'	NO 33300000
	RVACTNOT,*,1,CH	NOTIFY 33350000
*	RVYES,'Y'	YES 33400000
*	RVNO,'N'	NO 33450000
	SKIP,2	RESERVED 33500000
	RVABEND,*,1,CH	DATA SET CLOSED BY ABEND 33550000
*	RVYES,'Y'	YES 33600000
*	RVNO,'N'	NO 33650000
	RVHOMTYP,*,1,Ch	HOME LOCATION TYPE 33700000
*	RVAUT,'A'	AUTO 33750000
*	RVMAN,'M'	MANUAL 33800000
*	RVBLK,' '	BLANK 33850000
	RVNEXTYP,*,1,CH	NEXT LOCATION TYPE 33900000
*	RVAUT,'A'	AUTO 33950000
*	RVMAN,'M'	MANUAL 34000000
*	RVSTR,'S'	STORE 34050000
*	RVBLK,' '	BLANK 34100000
	RVVOLTYPE,*,1,CH	VOLUME TYPE 34150000
	MVVOLTYPE_PHYSICAL,'0'	VOLUME TYPE PHYSICAL 34200000
	MVVOLTYPE_LOGICAL,'1'	VOLUME TYPE LOGICAL 34250000
	MVVOLTYPE_STACKED,'2'	VOLUME TYPE STACKED 34300000
	RVVRSREL,*,8,CH	VRS RELEASE OPTIONS 34350000
	RVRELIXD,=,1,CH	IGNORE EXPDT 34400000
*	RVYES,'Y'	YES 34450000
*	RVNO,'N'	NO 34500000
	RVRELSI,*,1,CH	SCRATCH IMMEDIATE 34550000
*	RVYES,'Y'	YES 34600000
*	RVNO,'N'	NO 34650000
	SKIP,6	RESERVED 34700000
	RVCONTNR,*,16,CH	IN CONTAINER NAME 34750000
	RVRQPRTY,*,4,CH	MOVEMENT PRIORITY 34800000
	RVRBYSET,*,1,CH	VOLUE RETAINED BY SET 34850000
	RVSTACKVOL_ENABLED,*,1,CH	STACKED VOLUME RECORD ENABLED 34900000
*		AND SYNCHRONIZED 34950000
	RVEXPTOKEN,*,8,CH	UNIQUE VALUE CREATED AT START OF 35000000
*		EXPORT TO A NEW STACKED VOLUME 35050000
	SKIP,2	RESERVED 35100000
	RVSTACKED_VOLCOUNT,*,4,FI	COUNT OF VOLUMES STACKED ON A 35150000
*		VOLUME 35200000
*****		35300000
*	END OF REPORT EXTRACT VOLUME RECORD	* 35350000
*****		35400000
	RVRCEND,*	END OF RVEXT 35450000
*****		35500000
*	END OF REPORT EXTRACT RECORD	* 35550000
*****		35600000



## EDGSMFSY: SMF Record Symbols

EDGSMFSY provides the DFSORT symbol mapping for the DFSMSrmm SMF records as follows:

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***** 00036000
* 00072000
* RMM Inventory Management SMF Record @02C * 00108000
* DFSORT Symbol mapping * 00144000
* * 00180000
***** 00216000
* OS/390 DFSMSrmm V2R10 * 00252000
* * 00288000
*PROPRIETARY V3 STATEMENT * 00324000
*LICENSED MATERIALS - PROPERTY OF IBM * 00360000
*"RESTRICTED MATERIALS OF IBM" * 00396000
*5647-A01 * 00432000
*(C) COPYRIGHT 1993,2000 IBM CORP. * 00468000
*STATUS = HDZ11F0 * 00504000
*END PROPRIETARY V3 STATEMENT * 00540000
* * 00576000
***** 00612000
* SEE "OS/390 DFSMSrmm Reporting @02C * 00667990
* (SC26-7335)" FOR FIELD DETAILS ON RMM RECORDS. @02C * 00687980
* SEE "DFSORT APG (SC33-4035)" FOR DETAILS OF USING SYMBOLS. * 00720000
***** 00756000
* CHANGE ACTIVITY: * 00792000
* $LG=RMM210 ,210,990901,CHK: DFSORT Symbols @LGA * 00816000
* $01=K161019,210,000118,CHK: Creating Program name symbols @01A * 00840000
* $02=0W44589,210,000522,BG: Correct DFSMSrmm reference comment @02A * 00849990
***** 00864000
* * 00900000
***** 00936000
* START OF RMM SMFAR * 00972000
***** 01008000
SMFAR,1,8463 01044000
SMFADLEN,=,2,BI RECORD LENGTH 01080000
SKIP,2 RESERVED 01116000
SMFADFLG,*,1,BI SYSTEM TYPE 01152000
SMFAXA,X'04' MVS/XA 01188000
SMFAESA,X'0E' MVS/ESA 01224000
SMFADRTY,*,1,BI RECORD TYPE 01260000
SMFADTME,*,4,BI TIME SINCE MIDNIGHT IN HUNDREDTHS OF A SECOND 01296000
* THAT RECORD WAS MOVED TO THE SMF BUFFER. 01332000
SMFADDTE,*,4,PD DATE RECORD WAS MOVED TO THE SMF BUFFER 01368000
* IN THE FORM 0CYDDDF WHERE F IS THE SIGN AND 01404000
* C IS 0 FOR 19YY AND 1 FOR 20YY. 01440000
SMFADSID,*,4,CH SYSTEM IDENTIFICATION 01476000
SMFADJBN,*,8,CH JOB NAME 01512000
SMFADRST,*,4,CH READER START TIME 01548000
SMFADRSD,*,4,CH READER START DATE 01584000
***** 01620000
* END OF SMF RECORD HEADER SECTION * 01656000
***** 01692000
SMFADUID,*,8,CH RACF USER ID 01728000
SMFADACT,*,1,CH ACTIVITY TYPE 01764000
SMFADD,'A' RECORD ADDED 01800000
SMFCHG,'C' RECORD CHANGED 01836000
SMFDEL,'D' RECORD DELETED 01872000
***** 01944000
* START OF OVERLAY AREA * 01980000
***** 02016000
SMFADREC,* START OF INFORMATION 02052000
* * 02088000
***** 02124000
* ACTION RECORD * 02160000
***** 02196000

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*
POSITION,SMFADREC          START AFTER EDGSMFAR          02232000
*****                    *****                    02268000
* KEY FIELD                *                          02304000
*****                    *****                    02340000
MAKEY,=,56                KEY FIELD                    02376000
MATYPE,=,1,CH             RECORD TYPE                  02412000
  MATYPEID,'C'             ACTION RECORD ID SYMBOL     02448000
MATYPE1,*,1,CH            SUB-TYPE                    02484000
  MATYPE1_ACTION,'A'      ACTION                    02520000
  MATYPE1_MOVE,'M'        MOVE                      02556000
MAACTION,*,8,CH           ACTION TYPE            02592000
  MAMVE,'MOVE'            MOVE                      02628000
  MASCR,'SCRATCH'         SCRATCH                    02664000
  MARET,'RETURN'          RETURN                    02700000
  MAREP,'REPLACE'        REPLACE                    02736000
  MAINI,'INIT'            INIT                      02772000
  MAERS,'ERASE'           ERASE                    02808000
  MANTF,'NOTIFY'          NOTIFY                    02844000
  SKIP,8                  RESERVED                    02880000
  MALOC,*,8,CH            SOURCE LOCATION FOR MOVE 02916000
  MADEST,*,8,CH          TARGET LOCATION FOR MOVE 02952000
  SKIP,22                 RESERVED                    02988000
*****                    *****                    03024000
* CONTROL INFORMATION      *                          03060000
*****                    *****                    03096000
MARECLN,*,2,FI            RECORD LENGTH          03132000
SKIP,2                    RESERVED                    03168000
MACRDATE,*,4,PD           ACTION CREATE DATE - YYYYDD 03204000
MACRTIME,*,4,PD           ACTION CREATE TIME - HHMSST 03240000
MACRSID,*,8,CH            CREATE SYSTEM ID          03276000
MARCCDS,*,8,CH            RECORD CREATE CDS ID      03312000
MALCDATE,*,4,PD           LAST CHANGE DATE - YYYYDD   03348000
MALCTIME,*,4,PD           LAST CHANGE TIME - HHMSST   03384000
MALCUID,*,8,CH            LAST CHANGE USER ID        03420000
MALCSID,*,8,CH            LAST CHANGE SYSTEM ID       03456000
MAUCDATE,*,4,PD           LAST "USER" CHANGE DATE     03492000
MAUCTIME,*,4,PD           LAST "USER" CHANGE TIME     03528000
MACFLG,*,1,BI             CONTROL FLAGS 1            03564000
  MADELFLG,X'80'          RECORD DELETED             03600000
  MASELFLG,X'10'          SELECT - PROC BY SATELLITE UPDT 03636000
MARECLEV,*,1,BI           RECORD LEVEL NUMBER        03672000
SKIP,6                    RESERVED                    03708000
*****                    *****                    03744000
* ACTION RECORD SPECIFIC INFORMATION *
*****                    *****                    03780000
MACOUNT,*,4,FI            COUNT OF VOLS REQ THIS ACTION 03816000
MASFLAG,*,1,BI            STATUS OF MOVES AND ACTIONS 03852000
  MASCOMP,X'80'           COMPLETED                   03888000
  MASPEND,X'40'           PENDING                       03924000
  MASCONF,X'20'           CONFIRMED                     03960000
  MASUNK,X'10'            UNKNOWN                        03996000
  SKIP,7                  RESERVED                    04032000
*****                    *****                    04068000
* END OF ACTION RECORD SPECIFICATION FILE RECORD *
*****                    *****                    04104000
MARCEND,*                 END OF MAREC                04140000
* END OF RMM MAREC        *                          04176000
*****                    *****                    04212000
POSITION,SMFADREC          START AFTER EDGSMFAR          04248000
*****                    *****                    04284000
* KEY FIELD                *                          04320000
*****                    *****                    04356000
MDKEY,=,56                KEY FIELD                    04392000
MDTYPE,=,1,CH             RECORD TYPE                  04428000
*****                    *****                    04464000

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MDTYPEID,'D'	DSN INFO ID SYMBOL	04644000
MDDNAME,*,44,CH	DATASET NAME	04680000
MDVOLSER,*,6,CH	VOLUME SERIAL NUMBER	04716000
SKIP,1	RESERVED	04752000
MDDSNSEQ,*,2,FI	DATASET SEQUENCE NUMBER	04788000
SKIP,2	RESERVED	04824000
*****	*****	04860000
* CONTROL INFORMATION		* 04896000
*****	*****	04932000
MDRECLN,*,2,FI	RECORD LENGTH	04968000
SKIP,2	RESERVED	05004000
MDCRDATE,*,4,PD	DSN CREATE DATE - YYYYDDD	05040000
MDCRTIME,*,4,PD	DSN CREATE TIME - HHMSST	05076000
MDCRSID,*,8,CH	CREATE SYSTEM ID	05112000
MDRCCDS,*,8,CH	RECORD CREATE CDS ID	05148000
MDLDATE,*,4,PD	LAST CHANGE DATE - YYYYDDD	05184000
MDLCTIME,*,4,PD	LAST CHANGE TIME - HHMSST	05220000
MDLCUID,*,8,CH	LAST CHANGE USER ID	05256000
MDLCSID,*,8,CH	LAST CHANGE SYSTEM ID	05292000
MDUCDATE,*,4,PD	LAST "USER" CHANGE DATE	05328000
MDUCTIME,*,4,PD	LAST "USER" CHANGE TIME	05364000
MDCFLOG,*,1,BI	CONTROL FLAGS 1	05400000
MDDELFLG,X'80'	RECORD DELETED	05436000
MDPDLFLG,X'40'	RECORD PREVIOUSLY DELETED	05472000
MDSELFLG,X'10'	SELECT - PROC BY SATELLITE UPDT	05508000
MDDUMMY,X'08'	DUMMY RECORD - ALLOW TSO ADD	05544000
MDDRELEV,*,1,BI	RECORD LEVEL NUMBER	05580000
SKIP,6	RESERVED	05616000
*****	*****	05652000
* DSNAME INFORMATION		* 05688000
*****	*****	05724000
MDTOTAL_BLK,*,4,FI	TOTAL BLOCK COUNT	05760000
MDSTART_POSN,*,1,BI	FILE START MEDIA POSITION	@01A 05784000
MDEND_POSN,*,1,BI	FILE END MEDIA POSITION	@01A 05808000
MDVOLSEQ,*,2,FI	VOLUME SEQUENCE NUMBER	05832000
MDUNITAD,*,4,CH	UNIT ADDRESS	05868000
MDRECFM,*,4,CH	RECORD FORMAT	05904000
MDLRECL,*,4,FI	LOGICAL RECORD LENGTH	05940000
MDBLKSZ,*,4,FI	PHYSICAL BLOCK SIZE	05976000
MDBLKCNT,*,4,FI	BLOCK COUNT	06012000
MDOWNDSN,*,8,CH	DATASET OWNER	06048000
MDSSELEV,*,1,BI	SECURITY LEVEL	06084000
MDTRTCH,*,1,BI	FROM JFCTRTCH - IDRC SUPPORT	06120000
MDTCOMP,X'08'	DSN USED 3480 IDRC	06156000
MDTNCOMP,X'04'	NO COMPACTION	06192000
MDFILSEQ,*,2,BI	LOGICAL FILE SEQUENCE NO	06228000
MDTOKEN,*,8,CH	RESERVED FOR RMM INTERNAL USE	06264000
MDDSSIZE,*,4,FI	DATASET SIZE IN KBYTES	06300000
MDLRDATE,*,4,PD	DATE LAST READ - YYYYDDD	06336000
MDLWDATE,*,4,PD	DATE LAST WRITTEN - YYYYDDD	06372000
MDFLAG,*,1,BI	FLAG BYTE	06408000
MDFCAT,B'1.....'	DATA SET IS CATALOGED	06444000
MDFVRSR,B'1.....'	DATA SET IS RETAINED BY VRS	06480000
MDFNOTCAT,B'..1.....'	INDICATES DS WAS FOUND NOT TO BE	06516000
*	CATALOGED DURING VRS	06552000
MDFABEND,B'....1...'	ABEND IN PROGRESS WHEN DATA SET CLOSED	06588000
MDFOCEAB,B'.....1..'	ABEND PROBABLY IN O/C/EV	06624000
MDFORCE,B'.....1.'	FORCE SUPPLIED	06660000
SKIP,2	RESERVED	06696000
MDVRSTYP,*,1,CH	MATCHING VRS TYPE	06732000
MDVTD,'D'	DATASET	06768000
MDVTS,'S'	SMSMC	06804000
MDVTV,'V'	VRSMV	06840000
MDVTM,'M'	DSN/MV	06876000
MDACSMC,*,8,CH	SMS MANAGEMENT CLASS NAME	06912000
MDFACSMC,*,8,CH	OLD SMS MANAGEMENT CLASS NAME	06948000
MDVRSVAL,*,8,CH	VRS MANAGEMENT VALUE	06984000

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MDACSSG,*,8,CH          SMS STORAGE GROUP NAME          07020000
MDACSSC,*,8,CH          SMS STORAGE CLASS NAME          07056000
MDACSDC,*,8,CH          SMS DATA CLASS NAME           07092000
MDCRTJBN,*,8,CH         CREATING JOB NAME              07128000
MDVRSJBN,*,8,CH         MATCHING VRS JOB NAME MASK     07164000
MDRETDAT,*,4,CH         RETENTION DATE                 07200000
MDSTEPNM,*,8,CH         CREATING STEP NAME            07236000
MDDDDNAME,*,8,CH        CREATING DDNAME               07272000
MDPVSCH,*,8,CH          PRIMARY VRS SUBSEQUENT SUBCHAIN NAME 07308000
MDPVSDTE,*,4,PD         PRIMARY VRS SUBSEQUENT SUBCHAIN START DATE 07344000
MDEXPDT,*,4,PD          EXPIRATION DATE               07380000
MDEXPDTO,*,4,PD         ORIGINAL EXPIRATION DATE      07416000
SKIP,8                   RESERVED                       07452000
MDBLKIDS,*,4,FI         FILE START BLOCKID            @01A 07455600
MDBLKIDE,*,4,FI         FILE END BLOCKID              @01A 07459200
MDCPGM,*,8,CH           CREATING PROGRAM NAME         @01A 07462800
MDLPGM,*,8,CH           LAST USE PROGRAM NAME         @01A 07466400
MDLJOB,*,8,CH           LAST USE JOB NAME             @01A 07470000
MDLSTEP,*,8,CH          LAST USE STEP NAME            @01A 07473600
MDLDDNM,*,8,CH          LAST USE DD NAME              @01A 07477200
MDLDEVN,*,4,CH          LAST USE DEVICE NUMBER        @01A 07480800
SKIP,4                   RESERVED                       @01A 07484400
***** 07488000
* VARIABLE LENGTH SECTION * 07524000
***** 07560000
MDPDSNL,*,1,BI          LENGTH OF PREVIOUS DSNAME     07596000
MDNDSNL,*,1,BI          LENGTH OF NEXT DSNAME        07632000
MDVRSNML,*,1,BI         LENGTH OF MATCHING VRS NAME   07668000
MD2VMTCL,*,1,BI         LENGTH OF SECOND. VRS FIELDS  07704000
MDPDSN,*,44,CH          PREVIOUS DSNAME OR NULL      07740000
MDNDSN,*,44,CH          NEXT DSNAME OR NULL          07776000
MDVRSNAM,*,44,CH        MATCHING VRS NAME            07812000
MD2VNAME,*,8,CH         SECONDARY VRS MASK           07848000
MD2VJBNM,*,8,CH         SECONDARY VRS JOB NAME MASK   07884000
MD2VSCH,*,8,CH          SECONDARY VRS SUBSEQUENT SUBCHAIN NAME 07920000
MD2VSDTE,*,4,PD         SECONDARY VRS SUBSEQUENT SUBCHAIN START DATE 07956000
* 07992000
***** 08028000
* END OF DATA SET INFORMATION * 08064000
***** 08100000
MDRCEND,*               END OF MDREC                  08136000
***** 08172000
* END OF RMM MDREC * 08208000
***** 08244000
* 08280000
POSITION,SMFADREC       START AFTER EDGSMFAR         08316000
***** 08352000
* KEY * 08388000
***** 08424000
MKKEY,=,56              KEY OF VRS RECORD            08460000
  MKTYPE,=,1,CH         RECORD TYPE                   08496000
  MKTYPEID,'K'          VRS RECORD ID                08532000
MKTYPE2,*,1,CH          VRS TYPE                      08568000
  MKTYPVOL,'V'          VOLUME VRS                    08604000
  MKTYPNAM,'N'          NAME VRS                      08640000
  MKTYPDSN,'D'          DATA SET VRS                 08676000
MKVOLSER,*,6,CH         VOLUME SERIAL MASK           08712000
  MKNAME,=,8,CH         NAME OF VRS                   08748000
  MKDSNAME,=,44,CH     DATA SET NAME MASK           08784000
MKGENKEY,*,1,CH         GENERIC/SPECIFIC INDICATOR    08820000
  MKGKSPEC,'0'         SPECIFIC                      08856000
  MKGKGEN,'1'         GENERIC                       08892000
MKCRTJBN,*,8,CH         JOB NAME                      08928000
SKIP,1                   RESERVED                       08964000
*****09000000
* CONTROL INFORMATION * 09036000
*****09072000

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MKRECLN,*2,FI	RECORD LENGTH	09108000
SKIP,2	RESERVED	09144000
MKCRDATE,*4,PD	VRS CREATE DATE - YYYYDDD	09180000
MKCRTIME,*4,PD	VRS CREATE TIME - HHMSST	09216000
MKCRSID,*8,CH	CREATE SYSTEM ID	09252000
MKRCCDS,*8,CH	RECORD CREATE CDS ID	09288000
MKLCDATE,*4,PD	LAST CHANGE DATE - YYYYDDD	09324000
MKLCTIME,*4,PD	LAST CHANGE TIME - HHMSST	09360000
MKLCLUID,*8,CH	LAST CHANGE USER ID	09396000
MKLCSID,*8,CH	LAST CHANGE SYSTEM ID	09432000
MKUCDATE,*4,PD	LAST "USER" CHANGE DATE	09468000
MKUCTIME,*4,PD	LAST "USER" CHANGE TIME	09504000
MKCFLG,*1,BI	CONTROL FLAGS 1	09540000
MKDELFLG,X'80'	RECORD DELETED	09576000
MKSELFLG,X'10'	SELECT - PROC BY SATELLITE UPDT	09612000
MKRECLEV,*1,BI	RECORD LEVEL NUMBER	09648000
SKIP,6	RESERVED	09684000
*****09720000		
* RETENTION TYPE		*09756000
*****09792000		
MKRETN,*1,BI	TYPE OF RETENTION	09828000
MKRETNC,B'1.....'	CYCLES	09864000
MKRETND,B'..1.....'	DAYS	09900000
MKRETNR,B'..1.....'	LASTREFERENCEDAYS	09936000
MKRETNW,B'...1....'	WHILECATALOGED	09972000
MKRETNX,B'....1...'	UNTILEXPIRED	10008000
MKRETNXD,B'.....1..'	EXTRADAYS	10044000
MKRETNCD,B'.....1.'	BYDAYSCYCLE	10080000
*****10116000		
* DATA SET NAME MASK TYPE		*10152000
*****10188000		
MKDSNTYP,*1,BI	DATA SET NAME MASK TYPE	10224000
MKDSNG,X'80'	GENERATION DATA GROUP	10260000
MKDSNP,X'40'	PSEUDO GDG	10296000
MKDSND,X'20'	STANDARD DATA SET NAME	10332000
MKOPEN,X'02'	MASK IS FOR OPEN FILES	10368000
MKABEND,X'01'	MASK IS FOR ABENDED FILES	10404000
*****10440000		
* STORE INFORMATION		*10476000
*****10512000		
MKSTORE,*1,CH	STORE REQUIREMENT	10548000
MKSTOREV,'V'	VITAL RECORD ONLY	10584000
MKSTORER,'R'	REMOTE STORE	10620000
MKSTOREL,'L'	LOCAL STORE	10656000
MKSTORED,'D'	DISTANT STORE	10692000
MKSTOREB,'B'	BOTH: LOCAL THEN DISTANT	10728000
MKLOCFLG,*1,BI	LIBRARY SUPPORT FLAG	10764000
MKLOC,*8,CH	LOCATION NAME	10800000
MKLHOM,'HOME'	HOME	10836000
MKLLCL,'LOCAL'	LOCAL	10872000
MKLREM,'REMOTE'	REMOTE	10908000
MKLDIS,'DISTANT'	DISTANT	10944000
MKLCUR,'CURRENT'	CURRENT	10980000
** CAN ALSO BE DEFINED LIBRARY NAME		11016000
*****11052000		
* VRS CONTROL INFORMATION		*11088000
*****11124000		
MKNEXT,*8,CH	NAME OF NEXTVRS OR ANDVRS	11160000
MKCOUNT,*4,FI	NBR OF CYCLES, DAYS, VOLUMES	11196000
MKLPRTY,*2,FI	LOCATION PRIORITY OVERRIDE	11232000
MKSTART,*2,FI	STORE START NUMBER	11268000
MKSTORE1,*4,FI	STORE KEEP NUMBER	11304000
MKSTORE2,*4,FI	DISTANT STORE KEEP NUMBER	11340000
MKFLAGA,*1,BI	FLAG-A	11376000
MKFGAAND,X'80'	MKNEXT IS ANDVRS() OPERAND	11412000
MKFGANXT,X'40'	MKNEXT IS NEXTVRS() OPERAND	11448000
MKRLSOPT,*1,BI	RELEASE OPTIONS	11484000

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MKRLSXDI,B'1.....'      EXPIRY DATE IGNORE      11520000
MKRLSSCI,B'.1.....'      SCRATCH IMMEDIATE        11556000
MKDELAY,*,2,FI           NUMBER OF DAYS BEFORE MOVE 11592000
MKOWNER,*,8,CH           VRS OWNER                  11628000
MKDELDT,*,4,PD           VRS DELETE DATE (YYYYDDD) 11664000
MKDESC,*,30,CH           DESCRIPTION                  11700000
SKIP,6                    RESERVED                     11736000
*****                    *****
MKRCEND,*                  END OF MKREC                 11808000
*****                    *****
* END OF RMM MKREC          *                               11880000
*****                    *****
*                               11916000
*                               11952000
POSITION,SMFADREC         START AFTER EDGSMFAR        11988000
*****                    *****
* KEY FIELD                  *                               12024000
*****                    *****
*                               12060000
*                               12096000
MOKEY,=,56                KEY FIELD                    12132000
MOTYPE,=,1,CH             RECORD TYPE                   12168000
MOTYPEID,'0'              OWNER RECORD ID SYMBOL       12204000
MOOWNER,*,8,CH            OWNER ID                      12240000
MORTYPE,*,6,CH            OWNER INFO                    12276000
***???? ARE THESE CONSTANTS RIGHT?
MORDET,'000000'          OWNER DETAILS                 12312000
MORVLO,'VOLSER'          VOLUME/OWNER INFORMTN       12348000
MOREND,'111111'          END OF VOLUME/OWNER         12384000
SKIP,41                   RESERVED - BINARY ZEROS      12420000
*****                    *****
*                               12456000
*                               12492000
* CONTROL INFORMATION      *                               12528000
*****                    *****
*                               12564000
MORECLN,*,2,FI           RECORD LENGTH                 12600000
SKIP,2                    RESERVED                     12636000
MOCRDATE,*,4,PD          OWNR CREATE DATE - YYYYDDD   12672000
MOCRTIME,*,4,PD          OWNR CREATE TIME - HHMSST    12708000
MOCRSID,*,8,CH           CREATE SYSTEM ID             12744000
MORCCDS,*,8,CH           RECORD CREATE CDS ID         12780000
MOLCDATE,*,4,PD          LAST CHANGE DATE - YYYYDDD   12744000
MOLCTIME,*,4,PD          LAST CHANGE TIME - HHMSST    12816000
MOLCUID,*,8,CH           LAST CHANGE USER ID          12852000
MOLCSID,*,8,CH           LAST CHANGE SYSTEM ID        12888000
MOUCDATE,*,4,PD          LAST "USER" CHANGE DATE      12924000
MOUCTIME,*,4,PD          LAST "USER" CHANGE TIME      12960000
MOCFLG,*,1,BI           CONTROL FLAGS 1              12996000
MODELFLG,X'80'           RECORD DELETED               13032000
MOSELFLG,X'10'           SELECT - PROC BY SATELLITE UPDT 13068000
MODUMMY,X'08'            DUMMY RECORD - ALLOW TSO ADD 13104000
SKIP,7                    RESERVED                     13140000
*****                    *****
*                               13176000
*                               13212000
* OWNER DETAILS            *                               13248000
*****                    *****
*                               13284000
ALIGN,F                    ENSURE AREA F-WORD ALIGNED   13320000
MOOWNDET,*,248           OWNER DETAILS                 13356000
MOOWNSUR,=,20,CH         OWNER SURNAME                 13392000
MOOWNFST,*,20,CH         OWNER FIRST NAME             13428000
MOOWNDEP,*,40,CH         OWNER DEPARTMENT             13464000
MOOWNAD1,*,40,CH         OWNER ADDRESS LINE 1         13500000
MOOWNAD2,*,40,CH         OWNER ADDRESS LINE 2         13536000
MOOWNAD3,*,40,CH         OWNER ADDRESS LINE 3         13572000
MOOWNTIN,*,8,CH          OWNER INTERNAL TELEPHONE NO  13608000
MOOWNTEX,*,20,CH         OWNER EXTERNAL TELEPHONE NO  13644000
MOOWNUID,*,8,CH          OWNER USERID                  13680000
MOOWNNOD,*,8,CH          OWNER NODENAME                13680000
MOOWNVOL,*,4,CH          TOTAL NUMBER OF OWNED VOLUMES 13716000
MOODETND,*               END OF OWNER DETAILS         13752000
*****                    *****
*                               13788000
* OWNED VOLUME DETAILS    *                               13824000
*****                    *****
*                               13860000
*                               13896000

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POSITION,MOOWNDT	OVERLAY OWNER DETAILS	13932000
MOVOLDT,*,4	VOLUME DETAILS	13968000
MOVOLNO,=,2,FI	OWNED VOLS THIS INFORMATION	14004000
SKIP,2	RESERVED	14040000
*****	*****	14076000
* OWNED VOLUME ENTRIES - 001-100		* 14112000
* THE ACTUAL NUMBER OF ENTRIES IS INDICATED BY MOVOLNO.		* 14148000
*****	*****	14184000
MOVOLNT_ARRAY,*,1600	ARRAY OF VOLUME ENTRIES	14220000
MOVOLNT_001,=,16	VOLUME ENTRY - 001	14256000
MOVOLSER_001,=,6,CH	VOLUME SERIAL - 001	14292000
SKIP,2	RESERVED	14328000
MOUNT_001,*,8,CH	UNIT TYPE - 001	14364000
MOVOLNT_002,*,16	VOLUME ENTRY - 002	14400000
MOVOLSER_002,=,6,CH	VOLUME SERIAL - 002	14436000
SKIP,2	RESERVED	14472000
MOUNT_002,*,8,CH	UNIT TYPE - 002	14508000
MOVOLNT_003,*,16	VOLUME ENTRY - 003	14544000
MOVOLSER_003,=,6,CH	VOLUME SERIAL - 003	14580000
SKIP,2	RESERVED	14616000
MOUNT_003,*,8,CH	UNIT TYPE - 003	14652000
MOVOLNT_004,*,16	VOLUME ENTRY - 004	14688000
MOVOLSER_004,=,6,CH	VOLUME SERIAL - 004	14724000
SKIP,2	RESERVED	14760000
MOUNT_004,*,8,CH	UNIT TYPE - 004	14796000
MOVOLNT_005,*,16	VOLUME ENTRY - 005	14832000
MOVOLSER_005,=,6,CH	VOLUME SERIAL - 005	14868000
SKIP,2	RESERVED	14904000
MOUNT_005,*,8,CH	UNIT TYPE - 005	14940000
MOVOLNT_006,*,16	VOLUME ENTRY - 006	14976000
MOVOLSER_006,=,6,CH	VOLUME SERIAL - 006	15012000
SKIP,2	RESERVED	15048000
MOUNT_006,*,8,CH	UNIT TYPE - 006	15084000
MOVOLNT_007,*,16	VOLUME ENTRY - 007	15120000
MOVOLSER_007,=,6,CH	VOLUME SERIAL - 007	15156000
SKIP,2	RESERVED	15192000
MOUNT_007,*,8,CH	UNIT TYPE - 007	15228000
MOVOLNT_008,*,16	VOLUME ENTRY - 008	15264000
MOVOLSER_008,=,6,CH	VOLUME SERIAL - 008	15300000
SKIP,2	RESERVED	15336000
MOUNT_008,*,8,CH	UNIT TYPE - 008	15372000
MOVOLNT_009,*,16	VOLUME ENTRY - 009	15408000
MOVOLSER_009,=,6,CH	VOLUME SERIAL - 009	15444000
SKIP,2	RESERVED	15480000
MOUNT_009,*,8,CH	UNIT TYPE - 009	15516000
MOVOLNT_010,*,16	VOLUME ENTRY - 010	15552000
MOVOLSER_010,=,6,CH	VOLUME SERIAL - 010	15588000
SKIP,2	RESERVED	15624000
MOUNT_010,*,8,CH	UNIT TYPE - 010	15660000
MOVOLNT_011,*,16	VOLUME ENTRY - 011	15696000
MOVOLSER_011,=,6,CH	VOLUME SERIAL - 011	15732000
SKIP,2	RESERVED	15768000
MOUNT_011,*,8,CH	UNIT TYPE - 011	15804000
MOVOLNT_012,*,16	VOLUME ENTRY - 012	15840000
MOVOLSER_012,=,6,CH	VOLUME SERIAL - 012	15876000
SKIP,2	RESERVED	15912000
MOUNT_012,*,8,CH	UNIT TYPE - 012	15948000
MOVOLNT_013,*,16	VOLUME ENTRY - 013	15984000
MOVOLSER_013,=,6,CH	VOLUME SERIAL - 013	16020000
SKIP,2	RESERVED	16056000
MOUNT_013,*,8,CH	UNIT TYPE - 013	16092000
MOVOLNT_014,*,16	VOLUME ENTRY - 014	16128000
MOVOLSER_014,=,6,CH	VOLUME SERIAL - 014	16164000
SKIP,2	RESERVED	16200000
MOUNT_014,*,8,CH	UNIT TYPE - 014	16236000
MOVOLNT_015,*,16	VOLUME ENTRY - 015	16272000
MOVOLSER_015,=,6,CH	VOLUME SERIAL - 015	16308000



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SKIP,2	RESERVED	16344000
MOUNT_015,*,8,CH	UNIT TYPE - 015	16380000
MOVOLNT_016,*,16	VOLUME ENTRY - 016	16416000
MOVOLSER_016,=,6,CH	VOLUME SERIAL - 016	16452000
SKIP,2	RESERVED	16488000
MOUNT_016,*,8,CH	UNIT TYPE - 016	16524000
MOVOLNT_017,*,16	VOLUME ENTRY - 017	16560000
MOVOLSER_017,=,6,CH	VOLUME SERIAL - 017	16596000
SKIP,2	RESERVED	16632000
MOUNT_017,*,8,CH	UNIT TYPE - 017	16668000
MOVOLNT_018,*,16	VOLUME ENTRY - 018	16704000
MOVOLSER_018,=,6,CH	VOLUME SERIAL - 018	16740000
SKIP,2	RESERVED	16776000
MOUNT_018,*,8,CH	UNIT TYPE - 018	16812000
MOVOLNT_019,*,16	VOLUME ENTRY - 019	16848000
MOVOLSER_019,=,6,CH	VOLUME SERIAL - 019	16884000
SKIP,2	RESERVED	16920000
MOUNT_019,*,8,CH	UNIT TYPE - 019	16956000
MOVOLNT_020,*,16	VOLUME ENTRY - 020	16992000
MOVOLSER_020,=,6,CH	VOLUME SERIAL - 020	17028000
SKIP,2	RESERVED	17064000
MOUNT_020,*,8,CH	UNIT TYPE - 020	17100000
MOVOLNT_021,*,16	VOLUME ENTRY - 021	17136000
MOVOLSER_021,=,6,CH	VOLUME SERIAL - 021	17172000
SKIP,2	RESERVED	17208000
MOUNT_021,*,8,CH	UNIT TYPE - 021	17244000
MOVOLNT_022,*,16	VOLUME ENTRY - 022	17280000
MOVOLSER_022,=,6,CH	VOLUME SERIAL - 022	17316000
SKIP,2	RESERVED	17352000
MOUNT_022,*,8,CH	UNIT TYPE - 022	17388000
MOVOLNT_023,*,16	VOLUME ENTRY - 023	17424000
MOVOLSER_023,=,6,CH	VOLUME SERIAL - 023	17460000
SKIP,2	RESERVED	17496000
MOUNT_023,*,8,CH	UNIT TYPE - 023	17532000
MOVOLNT_024,*,16	VOLUME ENTRY - 024	17568000
MOVOLSER_024,=,6,CH	VOLUME SERIAL - 024	17604000
SKIP,2	RESERVED	17640000
MOUNT_024,*,8,CH	UNIT TYPE - 024	17676000
MOVOLNT_025,*,16	VOLUME ENTRY - 025	17712000
MOVOLSER_025,=,6,CH	VOLUME SERIAL - 025	17748000
SKIP,2	RESERVED	17784000
MOUNT_025,*,8,CH	UNIT TYPE - 025	17820000
MOVOLNT_026,*,16	VOLUME ENTRY - 026	17856000
MOVOLSER_026,=,6,CH	VOLUME SERIAL - 026	17892000
SKIP,2	RESERVED	17928000
MOUNT_026,*,8,CH	UNIT TYPE - 026	17964000
MOVOLNT_027,*,16	VOLUME ENTRY - 027	18000000
MOVOLSER_027,=,6,CH	VOLUME SERIAL - 027	18036000
SKIP,2	RESERVED	18072000
MOUNT_027,*,8,CH	UNIT TYPE - 027	18108000
MOVOLNT_028,*,16	VOLUME ENTRY - 028	18144000
MOVOLSER_028,=,6,CH	VOLUME SERIAL - 028	18180000
SKIP,2	RESERVED	18216000
MOUNT_028,*,8,CH	UNIT TYPE - 028	18252000
MOVOLNT_029,*,16	VOLUME ENTRY - 029	18288000
MOVOLSER_029,=,6,CH	VOLUME SERIAL - 029	18324000
SKIP,2	RESERVED	18360000
MOUNT_029,*,8,CH	UNIT TYPE - 029	18396000
MOVOLNT_030,*,16	VOLUME ENTRY - 030	18432000
MOVOLSER_030,=,6,CH	VOLUME SERIAL - 030	18468000
SKIP,2	RESERVED	18504000
MOUNT_030,*,8,CH	UNIT TYPE - 030	18540000
MOVOLNT_031,*,16	VOLUME ENTRY - 031	18576000
MOVOLSER_031,=,6,CH	VOLUME SERIAL - 031	18612000
SKIP,2	RESERVED	18648000
MOUNT_031,*,8,CH	UNIT TYPE - 031	18684000
MOVOLNT_032,*,16	VOLUME ENTRY - 032	18720000



MOVOLSER_032,=,6,CH	VOLUME SERIAL - 032	18756000
SKIP,2	RESERVED	18792000
MOUNIT_032,*,8,CH	UNIT TYPE - 032	18828000
MOVOLENT_033,*,16	VOLUME ENTRY - 033	18864000
MOVOLSER_033,=,6,CH	VOLUME SERIAL - 033	18900000
SKIP,2	RESERVED	18936000
MOUNIT_033,*,8,CH	UNIT TYPE - 033	18972000
MOVOLENT_034,*,16	VOLUME ENTRY - 034	19008000
MOVOLSER_034,=,6,CH	VOLUME SERIAL - 034	19044000
SKIP,2	RESERVED	19080000
MOUNIT_034,*,8,CH	UNIT TYPE - 034	19116000
MOVOLENT_035,*,16	VOLUME ENTRY - 035	19152000
MOVOLSER_035,=,6,CH	VOLUME SERIAL - 035	19188000
SKIP,2	RESERVED	19224000
MOUNIT_035,*,8,CH	UNIT TYPE - 035	19260000
MOVOLENT_036,*,16	VOLUME ENTRY - 036	19296000
MOVOLSER_036,=,6,CH	VOLUME SERIAL - 036	19332000
SKIP,2	RESERVED	19368000
MOUNIT_036,*,8,CH	UNIT TYPE - 036	19404000
MOVOLENT_037,*,16	VOLUME ENTRY - 037	19440000
MOVOLSER_037,=,6,CH	VOLUME SERIAL - 037	19476000
SKIP,2	RESERVED	19512000
MOUNIT_037,*,8,CH	UNIT TYPE - 037	19548000
MOVOLENT_038,*,16	VOLUME ENTRY - 038	19584000
MOVOLSER_038,=,6,CH	VOLUME SERIAL - 038	19620000
SKIP,2	RESERVED	19656000
MOUNIT_038,*,8,CH	UNIT TYPE - 038	19692000
MOVOLENT_039,*,16	VOLUME ENTRY - 039	19728000
MOVOLSER_039,=,6,CH	VOLUME SERIAL - 039	19764000
SKIP,2	RESERVED	19800000
MOUNIT_039,*,8,CH	UNIT TYPE - 039	19836000
MOVOLENT_040,*,16	VOLUME ENTRY - 040	19872000
MOVOLSER_040,=,6,CH	VOLUME SERIAL - 040	19908000
SKIP,2	RESERVED	19944000
MOUNIT_040,*,8,CH	UNIT TYPE - 040	19980000
MOVOLENT_041,*,16	VOLUME ENTRY - 041	20016000
MOVOLSER_041,=,6,CH	VOLUME SERIAL - 041	20052000
SKIP,2	RESERVED	20088000
MOUNIT_041,*,8,CH	UNIT TYPE - 041	20124000
MOVOLENT_042,*,16	VOLUME ENTRY - 042	20160000
MOVOLSER_042,=,6,CH	VOLUME SERIAL - 042	20196000
SKIP,2	RESERVED	20232000
MOUNIT_042,*,8,CH	UNIT TYPE - 042	20268000
MOVOLENT_043,*,16	VOLUME ENTRY - 043	20304000
MOVOLSER_043,=,6,CH	VOLUME SERIAL - 043	20340000
SKIP,2	RESERVED	20376000
MOUNIT_043,*,8,CH	UNIT TYPE - 043	20412000
MOVOLENT_044,*,16	VOLUME ENTRY - 044	20448000
MOVOLSER_044,=,6,CH	VOLUME SERIAL - 044	20484000
SKIP,2	RESERVED	20520000
MOUNIT_044,*,8,CH	UNIT TYPE - 044	20556000
MOVOLENT_045,*,16	VOLUME ENTRY - 045	20592000
MOVOLSER_045,=,6,CH	VOLUME SERIAL - 045	20628000
SKIP,2	RESERVED	20664000
MOUNIT_045,*,8,CH	UNIT TYPE - 045	20700000
MOVOLENT_046,*,16	VOLUME ENTRY - 046	20736000
MOVOLSER_046,=,6,CH	VOLUME SERIAL - 046	20772000
SKIP,2	RESERVED	20808000
MOUNIT_046,*,8,CH	UNIT TYPE - 046	20844000
MOVOLENT_047,*,16	VOLUME ENTRY - 047	20880000
MOVOLSER_047,=,6,CH	VOLUME SERIAL - 047	20916000
SKIP,2	RESERVED	20952000
MOUNIT_047,*,8,CH	UNIT TYPE - 047	20988000
MOVOLENT_048,*,16	VOLUME ENTRY - 048	21024000
MOVOLSER_048,=,6,CH	VOLUME SERIAL - 048	21060000
SKIP,2	RESERVED	21096000
MOUNIT_048,*,8,CH	UNIT TYPE - 048	21132000

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MOVOLNT_049,*,16	VOLUME ENTRY - 049	21168000
MOVOLSER_049,=,6,CH	VOLUME SERIAL - 049	21204000
SKIP,2	RESERVED	21240000
MOUNT_049,*,8,CH	UNIT TYPE - 049	21276000
MOVOLNT_050,*,16	VOLUME ENTRY - 050	21312000
MOVOLSER_050,=,6,CH	VOLUME SERIAL - 050	21348000
SKIP,2	RESERVED	21384000
MOUNT_050,*,8,CH	UNIT TYPE - 050	21420000
MOVOLNT_051,*,16	VOLUME ENTRY - 051	21456000
MOVOLSER_051,=,6,CH	VOLUME SERIAL - 051	21492000
SKIP,2	RESERVED	21528000
MOUNT_051,*,8,CH	UNIT TYPE - 051	21564000
MOVOLNT_052,*,16	VOLUME ENTRY - 052	21600000
MOVOLSER_052,=,6,CH	VOLUME SERIAL - 052	21636000
SKIP,2	RESERVED	21672000
MOUNT_052,*,8,CH	UNIT TYPE - 052	21708000
MOVOLNT_053,*,16	VOLUME ENTRY - 053	21744000
MOVOLSER_053,=,6,CH	VOLUME SERIAL - 053	21780000
SKIP,2	RESERVED	21816000
MOUNT_053,*,8,CH	UNIT TYPE - 053	21852000
MOVOLNT_054,*,16	VOLUME ENTRY - 054	21888000
MOVOLSER_054,=,6,CH	VOLUME SERIAL - 054	21924000
SKIP,2	RESERVED	21960000
MOUNT_054,*,8,CH	UNIT TYPE - 054	21996000
MOVOLNT_055,*,16	VOLUME ENTRY - 055	22032000
MOVOLSER_055,=,6,CH	VOLUME SERIAL - 055	22068000
SKIP,2	RESERVED	22104000
MOUNT_055,*,8,CH	UNIT TYPE - 055	22140000
MOVOLNT_056,*,16	VOLUME ENTRY - 056	22176000
MOVOLSER_056,=,6,CH	VOLUME SERIAL - 056	22212000
SKIP,2	RESERVED	22248000
MOUNT_056,*,8,CH	UNIT TYPE - 056	22284000
MOVOLNT_057,*,16	VOLUME ENTRY - 057	22320000
MOVOLSER_057,=,6,CH	VOLUME SERIAL - 057	22356000
SKIP,2	RESERVED	22392000
MOUNT_057,*,8,CH	UNIT TYPE - 057	22428000
MOVOLNT_058,*,16	VOLUME ENTRY - 058	22464000
MOVOLSER_058,=,6,CH	VOLUME SERIAL - 058	22500000
SKIP,2	RESERVED	22536000
MOUNT_058,*,8,CH	UNIT TYPE - 058	22572000
MOVOLNT_059,*,16	VOLUME ENTRY - 059	22608000
MOVOLSER_059,=,6,CH	VOLUME SERIAL - 059	22644000
SKIP,2	RESERVED	22680000
MOUNT_059,*,8,CH	UNIT TYPE - 059	22716000
MOVOLNT_060,*,16	VOLUME ENTRY - 060	22752000
MOVOLSER_060,=,6,CH	VOLUME SERIAL - 060	22788000
SKIP,2	RESERVED	22824000
MOUNT_060,*,8,CH	UNIT TYPE - 060	22860000
MOVOLNT_061,*,16	VOLUME ENTRY - 061	22896000
MOVOLSER_061,=,6,CH	VOLUME SERIAL - 061	22932000
SKIP,2	RESERVED	22968000
MOUNT_061,*,8,CH	UNIT TYPE - 061	23004000
MOVOLNT_062,*,16	VOLUME ENTRY - 062	23040000
MOVOLSER_062,=,6,CH	VOLUME SERIAL - 062	23076000
SKIP,2	RESERVED	23112000
MOUNT_062,*,8,CH	UNIT TYPE - 062	23148000
MOVOLNT_063,*,16	VOLUME ENTRY - 063	23184000
MOVOLSER_063,=,6,CH	VOLUME SERIAL - 063	23220000
SKIP,2	RESERVED	23256000
MOUNT_063,*,8,CH	UNIT TYPE - 063	23292000
MOVOLNT_064,*,16	VOLUME ENTRY - 064	23328000
MOVOLSER_064,=,6,CH	VOLUME SERIAL - 064	23364000
SKIP,2	RESERVED	23400000
MOUNT_064,*,8,CH	UNIT TYPE - 064	23436000
MOVOLNT_065,*,16	VOLUME ENTRY - 065	23472000
MOVOLSER_065,=,6,CH	VOLUME SERIAL - 065	23508000
SKIP,2	RESERVED	23544000

MOUNT_065,* ,8,CH	UNIT TYPE - 065	23580000
MOVOLNT_066,* ,16	VOLUME ENTRY - 066	23616000
MOVOLSER_066,=,6,CH	VOLUME SERIAL - 066	23652000
SKIP,2	RESERVED	23688000
MOUNT_066,* ,8,CH	UNIT TYPE - 066	23724000
MOVOLNT_067,* ,16	VOLUME ENTRY - 067	23760000
MOVOLSER_067,=,6,CH	VOLUME SERIAL - 067	23796000
SKIP,2	RESERVED	23832000
MOUNT_067,* ,8,CH	UNIT TYPE - 067	23868000
MOVOLNT_068,* ,16	VOLUME ENTRY - 068	23904000
MOVOLSER_068,=,6,CH	VOLUME SERIAL - 068	23940000
SKIP,2	RESERVED	23976000
MOUNT_068,* ,8,CH	UNIT TYPE - 068	24012000
MOVOLNT_069,* ,16	VOLUME ENTRY - 069	24048000
MOVOLSER_069,=,6,CH	VOLUME SERIAL - 069	24084000
SKIP,2	RESERVED	24120000
MOUNT_069,* ,8,CH	UNIT TYPE - 069	24156000
MOVOLNT_070,* ,16	VOLUME ENTRY - 070	24192000
MOVOLSER_070,=,6,CH	VOLUME SERIAL - 070	24228000
SKIP,2	RESERVED	24264000
MOUNT_070,* ,8,CH	UNIT TYPE - 070	24300000
MOVOLNT_071,* ,16	VOLUME ENTRY - 071	24336000
MOVOLSER_071,=,6,CH	VOLUME SERIAL - 071	24372000
SKIP,2	RESERVED	24408000
MOUNT_071,* ,8,CH	UNIT TYPE - 071	24444000
MOVOLNT_072,* ,16	VOLUME ENTRY - 072	24480000
MOVOLSER_072,=,6,CH	VOLUME SERIAL - 072	24516000
SKIP,2	RESERVED	24552000
MOUNT_072,* ,8,CH	UNIT TYPE - 072	24588000
MOVOLNT_073,* ,16	VOLUME ENTRY - 073	24624000
MOVOLSER_073,=,6,CH	VOLUME SERIAL - 073	24660000
SKIP,2	RESERVED	24696000
MOUNT_073,* ,8,CH	UNIT TYPE - 073	24732000
MOVOLNT_074,* ,16	VOLUME ENTRY - 074	24768000
MOVOLSER_074,=,6,CH	VOLUME SERIAL - 074	24804000
SKIP,2	RESERVED	24840000
MOUNT_074,* ,8,CH	UNIT TYPE - 074	24876000
MOVOLNT_075,* ,16	VOLUME ENTRY - 075	24912000
MOVOLSER_075,=,6,CH	VOLUME SERIAL - 075	24948000
SKIP,2	RESERVED	24984000
MOUNT_075,* ,8,CH	UNIT TYPE - 075	25020000
MOVOLNT_076,* ,16	VOLUME ENTRY - 076	25056000
MOVOLSER_076,=,6,CH	VOLUME SERIAL - 076	25092000
SKIP,2	RESERVED	25128000
MOUNT_076,* ,8,CH	UNIT TYPE - 076	25164000
MOVOLNT_077,* ,16	VOLUME ENTRY - 077	25200000
MOVOLSER_077,=,6,CH	VOLUME SERIAL - 077	25236000
SKIP,2	RESERVED	25272000
MOUNT_077,* ,8,CH	UNIT TYPE - 077	25308000
MOVOLNT_078,* ,16	VOLUME ENTRY - 078	25344000
MOVOLSER_078,=,6,CH	VOLUME SERIAL - 078	25380000
SKIP,2	RESERVED	25416000
MOUNT_078,* ,8,CH	UNIT TYPE - 078	25452000
MOVOLNT_079,* ,16	VOLUME ENTRY - 079	25488000
MOVOLSER_079,=,6,CH	VOLUME SERIAL - 079	25524000
SKIP,2	RESERVED	25560000
MOUNT_079,* ,8,CH	UNIT TYPE - 079	25596000
MOVOLNT_080,* ,16	VOLUME ENTRY - 080	25632000
MOVOLSER_080,=,6,CH	VOLUME SERIAL - 080	25668000
SKIP,2	RESERVED	25704000
MOUNT_080,* ,8,CH	UNIT TYPE - 080	25740000
MOVOLNT_081,* ,16	VOLUME ENTRY - 081	25776000
MOVOLSER_081,=,6,CH	VOLUME SERIAL - 081	25812000
SKIP,2	RESERVED	25848000
MOUNT_081,* ,8,CH	UNIT TYPE - 081	25884000
MOVOLNT_082,* ,16	VOLUME ENTRY - 082	25920000
MOVOLSER_082,=,6,CH	VOLUME SERIAL - 082	25956000

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SKIP,2	RESERVED	25992000
MOUNT_082,*,8,CH	UNIT TYPE - 082	26028000
MOVOLENT_083,*,16	VOLUME ENTRY - 083	26064000
MOVOLSER_083,=,6,CH	VOLUME SERIAL - 083	26100000
SKIP,2	RESERVED	26136000
MOUNT_083,*,8,CH	UNIT TYPE - 083	26172000
MOVOLENT_084,*,16	VOLUME ENTRY - 084	26208000
MOVOLSER_084,=,6,CH	VOLUME SERIAL - 084	26244000
SKIP,2	RESERVED	26280000
MOUNT_084,*,8,CH	UNIT TYPE - 084	26316000
MOVOLENT_085,*,16	VOLUME ENTRY - 085	26352000
MOVOLSER_085,=,6,CH	VOLUME SERIAL - 085	26388000
SKIP,2	RESERVED	26424000
MOUNT_085,*,8,CH	UNIT TYPE - 085	26460000
MOVOLENT_086,*,16	VOLUME ENTRY - 086	26496000
MOVOLSER_086,=,6,CH	VOLUME SERIAL - 086	26532000
SKIP,2	RESERVED	26568000
MOUNT_086,*,8,CH	UNIT TYPE - 086	26604000
MOVOLENT_087,*,16	VOLUME ENTRY - 087	26640000
MOVOLSER_087,=,6,CH	VOLUME SERIAL - 087	26676000
SKIP,2	RESERVED	26712000
MOUNT_087,*,8,CH	UNIT TYPE - 087	26748000
MOVOLENT_088,*,16	VOLUME ENTRY - 088	26784000
MOVOLSER_088,=,6,CH	VOLUME SERIAL - 088	26820000
SKIP,2	RESERVED	26856000
MOUNT_088,*,8,CH	UNIT TYPE - 088	26892000
MOVOLENT_089,*,16	VOLUME ENTRY - 089	26928000
MOVOLSER_089,=,6,CH	VOLUME SERIAL - 089	26964000
SKIP,2	RESERVED	27000000
MOUNT_089,*,8,CH	UNIT TYPE - 089	27036000
MOVOLENT_090,*,16	VOLUME ENTRY - 090	27072000
MOVOLSER_090,=,6,CH	VOLUME SERIAL - 090	27108000
SKIP,2	RESERVED	27144000
MOUNT_090,*,8,CH	UNIT TYPE - 090	27180000
MOVOLENT_091,*,16	VOLUME ENTRY - 091	27216000
MOVOLSER_091,=,6,CH	VOLUME SERIAL - 091	27252000
SKIP,2	RESERVED	27288000
MOUNT_091,*,8,CH	UNIT TYPE - 091	27324000
MOVOLENT_092,*,16	VOLUME ENTRY - 092	27360000
MOVOLSER_092,=,6,CH	VOLUME SERIAL - 092	27396000
SKIP,2	RESERVED	27432000
MOUNT_092,*,8,CH	UNIT TYPE - 092	27468000
MOVOLENT_093,*,16	VOLUME ENTRY - 093	27504000
MOVOLSER_093,=,6,CH	VOLUME SERIAL - 093	27540000
SKIP,2	RESERVED	27576000
MOUNT_093,*,8,CH	UNIT TYPE - 093	27612000
MOVOLENT_094,*,16	VOLUME ENTRY - 094	27648000
MOVOLSER_094,=,6,CH	VOLUME SERIAL - 094	27684000
SKIP,2	RESERVED	27720000
MOUNT_094,*,8,CH	UNIT TYPE - 094	27756000
MOVOLENT_095,*,16	VOLUME ENTRY - 095	27792000
MOVOLSER_095,=,6,CH	VOLUME SERIAL - 095	27828000
SKIP,2	RESERVED	27864000
MOUNT_095,*,8,CH	UNIT TYPE - 095	27900000
MOVOLENT_096,*,16	VOLUME ENTRY - 096	27936000
MOVOLSER_096,=,6,CH	VOLUME SERIAL - 096	27972000
SKIP,2	RESERVED	28008000
MOUNT_096,*,8,CH	UNIT TYPE - 096	28044000
MOVOLENT_097,*,16	VOLUME ENTRY - 097	28080000
MOVOLSER_097,=,6,CH	VOLUME SERIAL - 097	28116000
SKIP,2	RESERVED	28152000
MOUNT_097,*,8,CH	UNIT TYPE - 097	28188000
MOVOLENT_098,*,16	VOLUME ENTRY - 098	28224000
MOVOLSER_098,=,6,CH	VOLUME SERIAL - 098	28260000
SKIP,2	RESERVED	28296000
MOUNT_098,*,8,CH	UNIT TYPE - 098	28332000
MOVOLENT_099,*,16	VOLUME ENTRY - 099	28368000

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MOVOLSER_099,=,6,CH      VOLUME SERIAL - 099      28404000
SKIP,2                   RESERVED      28440000
MOUNT_099,*,8,CH        UNIT TYPE - 099         28476000
MOVOLSER_100,*,16       VOLUME ENTRY - 100     28512000
MOVOLSER_100,=,6,CH     VOLUME SERIAL - 100     28548000
SKIP,2                   RESERVED      28584000
MOUNT_100,*,8,CH        UNIT TYPE - 100         28620000
***** 28656000
* END OF OWNER INFORMATION * 28692000
***** 28728000
MORCEND,*                END OF MOREC      28764000
***** 28800000
* END OF RMM MOREC      * 28836000
***** 28872000
* 28908000
POSITION,SMFADREC        START AFTER EDGSMFAR   28944000
***** 28980000
* KEY FIELD * 29016000
***** 29052000
MPKEY,=,56              KEY FIELD      29088000
MPTYPE,=,1,CH          RECORD TYPE   29124000
MPTYPEID,'P'           PP RECORD ID SYMBOL 29160000
***** 29196000
* START OF RMM MPREC   * 29232000
***** 29268000
MPPPNUM,*,8,CH         PP NUMBER (NNNN-CCC)   29304000
MPVER,*,6,CH           VERSION/RELEASE/MOD NUMBER 29340000
SKIP,41                RESERVED      29376000
***** 29412000
* CONTROL INFORMATION * 29448000
***** 29484000
MPRECLN,*,2,FI         RECORD LENGTH   29520000
SKIP,2                 RESERVED      29556000
MPCRDATE,*,4,PD        PP CREATE DATE - YYYYDDD 29592000
MPCRTIME,*,4,PD        PP CREATE TIME - HHMSST  29628000
MPCRSID,*,8,CH         CREATE SYSTEM ID   29664000
MPRCCDS,*,8,CH         RECORD CREATE CDS ID  29700000
MPLCDATE,*,4,PD        LAST CHANGE DATE - YYYYDDD 29736000
MPLCTIME,*,4,PD        LAST CHANGE TIME - HHMSST 29772000
MPLCUID,*,8,CH         LAST CHANGE USER ID   29808000
MPLCSID,*,8,CH         LAST CHANGE SYSTEM ID  29844000
MPUCDATE,*,4,PD        LAST "USER" CHANGE DATE 29880000
MPUCTIME,*,4,PD        LAST "USER" CHANGE TIME 29916000
MPCFLG,*,1,BI         CONTROL FLAGS 1     29952000
MPDEFLG,X'80'          RECORD DELETED     29988000
MPSELFLG,X'10'         SELECT - PROC BY SATELLITE UPDT 30024000
MPDUMMY,X'08'          DUMMY RECORD - ALLOW TSO ADD 30060000
SKIP,7                 RESERVED      30096000
***** 30132000
* PROGRAM PRODUCT DETAILS * 30168000
***** 30204000
MPPPOWN,*,8,CH         PROGRAM PRODUCT OWNER ID 30240000
MPPpname,*,30,CH       PROGRAM PRODUCT NAME   30276000
MPPPDDESC,*,30,CH     PROGRAM PRODUCT DESCRIPTION 30312000
SKIP,64                RESERVED      30348000
***** 30384000
* PROGRAM PRODUCT VOLUME DETAILS * 30420000
***** 30456000
MPVOLDET,*,4           VOLUME DETAILS     30492000
MPVOLNO,=,2,FI        NO OF PP VOLLS     30528000
SKIP,2                 RESERVED      30564000
***** 30600000
* PROGRAM PRODUCT VOLUME ENTRY - 001-255 * 30636000
* THE ACTUAL NUMBER OF ENTRIES IS INDICATED BY MPVOLNO. * 30672000
***** 30708000
MPVOLENT_ARRAY,*,8160  ARRAY OF VOLUME ENTRIES 30744000
MPVOLENT_001,=,32     VOLUME ENTRY - 001   30780000

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MPVOLSER_001,=,6,CH	VOLUME SERIAL - 001	30816000
MPRACK_001,*,6,CH	RACK NUMBER - 001	30852000
MPFEAT_001,*,4,CH	FEATURE CODE - 001	30888000
MPUNIT_001,*,8,CH	UNIT TYPE - 001	30924000
SKIP,8	RESERVED	30960000
MPVOLENT_002,*,32	VOLUME ENTRY - 002	30996000
MPVOLSER_002,=,6,CH	VOLUME SERIAL - 002	31032000
MPRACK_002,*,6,CH	RACK NUMBER - 002	31068000
MPFEAT_002,*,4,CH	FEATURE CODE - 002	31104000
MPUNIT_002,*,8,CH	UNIT TYPE - 002	31140000
SKIP,8	RESERVED	31176000
MPVOLENT_003,*,32	VOLUME ENTRY - 003	31212000
MPVOLSER_003,=,6,CH	VOLUME SERIAL - 003	31248000
MPRACK_003,*,6,CH	RACK NUMBER - 003	31284000
MPFEAT_003,*,4,CH	FEATURE CODE - 003	31320000
MPUNIT_003,*,8,CH	UNIT TYPE - 003	31356000
SKIP,8	RESERVED	31392000
MPVOLENT_004,*,32	VOLUME ENTRY - 004	31428000
MPVOLSER_004,=,6,CH	VOLUME SERIAL - 004	31464000
MPRACK_004,*,6,CH	RACK NUMBER - 004	31500000
MPFEAT_004,*,4,CH	FEATURE CODE - 004	31536000
MPUNIT_004,*,8,CH	UNIT TYPE - 004	31572000
SKIP,8	RESERVED	31608000
MPVOLENT_005,*,32	VOLUME ENTRY - 005	31644000
MPVOLSER_005,=,6,CH	VOLUME SERIAL - 005	31680000
MPRACK_005,*,6,CH	RACK NUMBER - 005	31716000
MPFEAT_005,*,4,CH	FEATURE CODE - 005	31752000
MPUNIT_005,*,8,CH	UNIT TYPE - 005	31788000
SKIP,8	RESERVED	31824000
MPVOLENT_006,*,32	VOLUME ENTRY - 006	31860000
MPVOLSER_006,=,6,CH	VOLUME SERIAL - 006	31896000
MPRACK_006,*,6,CH	RACK NUMBER - 006	31932000
MPFEAT_006,*,4,CH	FEATURE CODE - 006	31968000
MPUNIT_006,*,8,CH	UNIT TYPE - 006	32004000
SKIP,8	RESERVED	32040000
MPVOLENT_007,*,32	VOLUME ENTRY - 007	32076000
MPVOLSER_007,=,6,CH	VOLUME SERIAL - 007	32112000
MPRACK_007,*,6,CH	RACK NUMBER - 007	32148000
MPFEAT_007,*,4,CH	FEATURE CODE - 007	32184000
MPUNIT_007,*,8,CH	UNIT TYPE - 007	32220000
SKIP,8	RESERVED	32256000
MPVOLENT_008,*,32	VOLUME ENTRY - 008	32292000
MPVOLSER_008,=,6,CH	VOLUME SERIAL - 008	32328000
MPRACK_008,*,6,CH	RACK NUMBER - 008	32364000
MPFEAT_008,*,4,CH	FEATURE CODE - 008	32400000
MPUNIT_008,*,8,CH	UNIT TYPE - 008	32436000
SKIP,8	RESERVED	32472000
MPVOLENT_009,*,32	VOLUME ENTRY - 009	32508000
MPVOLSER_009,=,6,CH	VOLUME SERIAL - 009	32544000
MPRACK_009,*,6,CH	RACK NUMBER - 009	32580000
MPFEAT_009,*,4,CH	FEATURE CODE - 009	32616000
MPUNIT_009,*,8,CH	UNIT TYPE - 009	32652000
SKIP,8	RESERVED	32688000
MPVOLENT_010,*,32	VOLUME ENTRY - 010	32724000
MPVOLSER_010,=,6,CH	VOLUME SERIAL - 010	32760000
MPRACK_010,*,6,CH	RACK NUMBER - 010	32796000
MPFEAT_010,*,4,CH	FEATURE CODE - 010	32832000
MPUNIT_010,*,8,CH	UNIT TYPE - 010	32868000
SKIP,8	RESERVED	32904000
MPVOLENT_011,*,32	VOLUME ENTRY - 011	32940000
MPVOLSER_011,=,6,CH	VOLUME SERIAL - 011	32976000
MPRACK_011,*,6,CH	RACK NUMBER - 011	33012000
MPFEAT_011,*,4,CH	FEATURE CODE - 011	33048000
MPUNIT_011,*,8,CH	UNIT TYPE - 011	33084000
SKIP,8	RESERVED	33120000
MPVOLENT_012,*,32	VOLUME ENTRY - 012	33156000
MPVOLSER_012,=,6,CH	VOLUME SERIAL - 012	33192000

MPRACK_012,*,6,CH	RACK NUMBER - 012	33228000
MPFEAT_012,*,4,CH	FEATURE CODE - 012	33264000
MPUNIT_012,*,8,CH	UNIT TYPE - 012	33300000
SKIP,8	RESERVED	33336000
MPVOLENT_013,*,32	VOLUME ENTRY - 013	33372000
MPVOLSER_013,=,6,CH	VOLUME SERIAL - 013	33408000
MPRACK_013,*,6,CH	RACK NUMBER - 013	33444000
MPFEAT_013,*,4,CH	FEATURE CODE - 013	33480000
MPUNIT_013,*,8,CH	UNIT TYPE - 013	33516000
SKIP,8	RESERVED	33552000
MPVOLENT_014,*,32	VOLUME ENTRY - 014	33588000
MPVOLSER_014,=,6,CH	VOLUME SERIAL - 014	33624000
MPRACK_014,*,6,CH	RACK NUMBER - 014	33660000
MPFEAT_014,*,4,CH	FEATURE CODE - 014	33696000
MPUNIT_014,*,8,CH	UNIT TYPE - 014	33732000
SKIP,8	RESERVED	33768000
MPVOLENT_015,*,32	VOLUME ENTRY - 015	33804000
MPVOLSER_015,=,6,CH	VOLUME SERIAL - 015	33840000
MPRACK_015,*,6,CH	RACK NUMBER - 015	33876000
MPFEAT_015,*,4,CH	FEATURE CODE - 015	33912000
MPUNIT_015,*,8,CH	UNIT TYPE - 015	33948000
SKIP,8	RESERVED	33984000
MPVOLENT_016,*,32	VOLUME ENTRY - 016	34020000
MPVOLSER_016,=,6,CH	VOLUME SERIAL - 016	34056000
MPRACK_016,*,6,CH	RACK NUMBER - 016	34092000
MPFEAT_016,*,4,CH	FEATURE CODE - 016	34128000
MPUNIT_016,*,8,CH	UNIT TYPE - 016	34164000
SKIP,8	RESERVED	34200000
MPVOLENT_017,*,32	VOLUME ENTRY - 017	34236000
MPVOLSER_017,=,6,CH	VOLUME SERIAL - 017	34272000
MPRACK_017,*,6,CH	RACK NUMBER - 017	34308000
MPFEAT_017,*,4,CH	FEATURE CODE - 017	34344000
MPUNIT_017,*,8,CH	UNIT TYPE - 017	34380000
SKIP,8	RESERVED	34416000
MPVOLENT_018,*,32	VOLUME ENTRY - 018	34452000
MPVOLSER_018,=,6,CH	VOLUME SERIAL - 018	34488000
MPRACK_018,*,6,CH	RACK NUMBER - 018	34524000
MPFEAT_018,*,4,CH	FEATURE CODE - 018	34560000
MPUNIT_018,*,8,CH	UNIT TYPE - 018	34596000
SKIP,8	RESERVED	34632000
MPVOLENT_019,*,32	VOLUME ENTRY - 019	34668000
MPVOLSER_019,=,6,CH	VOLUME SERIAL - 019	34704000
MPRACK_019,*,6,CH	RACK NUMBER - 019	34740000
MPFEAT_019,*,4,CH	FEATURE CODE - 019	34776000
MPUNIT_019,*,8,CH	UNIT TYPE - 019	34812000
SKIP,8	RESERVED	34848000
MPVOLENT_020,*,32	VOLUME ENTRY - 020	34884000
MPVOLSER_020,=,6,CH	VOLUME SERIAL - 020	34920000
MPRACK_020,*,6,CH	RACK NUMBER - 020	34956000
MPFEAT_020,*,4,CH	FEATURE CODE - 020	34992000
MPUNIT_020,*,8,CH	UNIT TYPE - 020	35028000
SKIP,8	RESERVED	35064000
MPVOLENT_021,*,32	VOLUME ENTRY - 021	35100000
MPVOLSER_021,=,6,CH	VOLUME SERIAL - 021	35136000
MPRACK_021,*,6,CH	RACK NUMBER - 021	35172000
MPFEAT_021,*,4,CH	FEATURE CODE - 021	35208000
MPUNIT_021,*,8,CH	UNIT TYPE - 021	35244000
SKIP,8	RESERVED	35280000
MPVOLENT_022,*,32	VOLUME ENTRY - 022	35316000
MPVOLSER_022,=,6,CH	VOLUME SERIAL - 022	35352000
MPRACK_022,*,6,CH	RACK NUMBER - 022	35388000
MPFEAT_022,*,4,CH	FEATURE CODE - 022	35424000
MPUNIT_022,*,8,CH	UNIT TYPE - 022	35460000
SKIP,8	RESERVED	35496000
MPVOLENT_023,*,32	VOLUME ENTRY - 023	35532000
MPVOLSER_023,=,6,CH	VOLUME SERIAL - 023	35568000
MPRACK_023,*,6,CH	RACK NUMBER - 023	35604000



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MPFEAT_023,* ,4,CH	FEATURE CODE - 023	35640000
MPUNIT_023,* ,8,CH	UNIT TYPE - 023	35676000
SKIP,8	RESERVED	35712000
MPVOLENT_024,* ,32	VOLUME ENTRY - 024	35748000
MPVOLSER_024,=,6,CH	VOLUME SERIAL - 024	35784000
MPRACK_024,* ,6,CH	RACK NUMBER - 024	35820000
MPFEAT_024,* ,4,CH	FEATURE CODE - 024	35856000
MPUNIT_024,* ,8,CH	UNIT TYPE - 024	35892000
SKIP,8	RESERVED	35928000
MPVOLENT_025,* ,32	VOLUME ENTRY - 025	35964000
MPVOLSER_025,=,6,CH	VOLUME SERIAL - 025	36000000
MPRACK_025,* ,6,CH	RACK NUMBER - 025	36036000
MPFEAT_025,* ,4,CH	FEATURE CODE - 025	36072000
MPUNIT_025,* ,8,CH	UNIT TYPE - 025	36108000
SKIP,8	RESERVED	36144000
MPVOLENT_026,* ,32	VOLUME ENTRY - 026	36180000
MPVOLSER_026,=,6,CH	VOLUME SERIAL - 026	36216000
MPRACK_026,* ,6,CH	RACK NUMBER - 026	36252000
MPFEAT_026,* ,4,CH	FEATURE CODE - 026	36288000
MPUNIT_026,* ,8,CH	UNIT TYPE - 026	36324000
SKIP,8	RESERVED	36360000
MPVOLENT_027,* ,32	VOLUME ENTRY - 027	36396000
MPVOLSER_027,=,6,CH	VOLUME SERIAL - 027	36432000
MPRACK_027,* ,6,CH	RACK NUMBER - 027	36468000
MPFEAT_027,* ,4,CH	FEATURE CODE - 027	36504000
MPUNIT_027,* ,8,CH	UNIT TYPE - 027	36540000
SKIP,8	RESERVED	36576000
MPVOLENT_028,* ,32	VOLUME ENTRY - 028	36612000
MPVOLSER_028,=,6,CH	VOLUME SERIAL - 028	36648000
MPRACK_028,* ,6,CH	RACK NUMBER - 028	36684000
MPFEAT_028,* ,4,CH	FEATURE CODE - 028	36720000
MPUNIT_028,* ,8,CH	UNIT TYPE - 028	36756000
SKIP,8	RESERVED	36792000
MPVOLENT_029,* ,32	VOLUME ENTRY - 029	36828000
MPVOLSER_029,=,6,CH	VOLUME SERIAL - 029	36864000
MPRACK_029,* ,6,CH	RACK NUMBER - 029	36900000
MPFEAT_029,* ,4,CH	FEATURE CODE - 029	36936000
MPUNIT_029,* ,8,CH	UNIT TYPE - 029	36972000
SKIP,8	RESERVED	37008000
MPVOLENT_030,* ,32	VOLUME ENTRY - 030	37044000
MPVOLSER_030,=,6,CH	VOLUME SERIAL - 030	37080000
MPRACK_030,* ,6,CH	RACK NUMBER - 030	37116000
MPFEAT_030,* ,4,CH	FEATURE CODE - 030	37152000
MPUNIT_030,* ,8,CH	UNIT TYPE - 030	37188000
SKIP,8	RESERVED	37224000
MPVOLENT_031,* ,32	VOLUME ENTRY - 031	37260000
MPVOLSER_031,=,6,CH	VOLUME SERIAL - 031	37296000
MPRACK_031,* ,6,CH	RACK NUMBER - 031	37332000
MPFEAT_031,* ,4,CH	FEATURE CODE - 031	37368000
MPUNIT_031,* ,8,CH	UNIT TYPE - 031	37404000
SKIP,8	RESERVED	37440000
MPVOLENT_032,* ,32	VOLUME ENTRY - 032	37476000
MPVOLSER_032,=,6,CH	VOLUME SERIAL - 032	37512000
MPRACK_032,* ,6,CH	RACK NUMBER - 032	37548000
MPFEAT_032,* ,4,CH	FEATURE CODE - 032	37584000
MPUNIT_032,* ,8,CH	UNIT TYPE - 032	37620000
SKIP,8	RESERVED	37656000
MPVOLENT_033,* ,32	VOLUME ENTRY - 033	37692000
MPVOLSER_033,=,6,CH	VOLUME SERIAL - 033	37728000
MPRACK_033,* ,6,CH	RACK NUMBER - 033	37764000
MPFEAT_033,* ,4,CH	FEATURE CODE - 033	37800000
MPUNIT_033,* ,8,CH	UNIT TYPE - 033	37836000
SKIP,8	RESERVED	37872000
MPVOLENT_034,* ,32	VOLUME ENTRY - 034	37908000
MPVOLSER_034,=,6,CH	VOLUME SERIAL - 034	37944000
MPRACK_034,* ,6,CH	RACK NUMBER - 034	37980000
MPFEAT_034,* ,4,CH	FEATURE CODE - 034	38016000



MPUNIT_034,* ,8,CH	UNIT TYPE - 034	38052000
SKIP,8	RESERVED	38088000
MPVOLENT_035,* ,32	VOLUME ENTRY - 035	38124000
MPVOLSER_035,=,6,CH	VOLUME SERIAL - 035	38160000
MPRACK_035,* ,6,CH	RACK NUMBER - 035	38196000
MPFEAT_035,* ,4,CH	FEATURE CODE - 035	38232000
MPUNIT_035,* ,8,CH	UNIT TYPE - 035	38268000
SKIP,8	RESERVED	38304000
MPVOLENT_036,* ,32	VOLUME ENTRY - 036	38340000
MPVOLSER_036,=,6,CH	VOLUME SERIAL - 036	38376000
MPRACK_036,* ,6,CH	RACK NUMBER - 036	38412000
MPFEAT_036,* ,4,CH	FEATURE CODE - 036	38448000
MPUNIT_036,* ,8,CH	UNIT TYPE - 036	38484000
SKIP,8	RESERVED	38520000
MPVOLENT_037,* ,32	VOLUME ENTRY - 037	38556000
MPVOLSER_037,=,6,CH	VOLUME SERIAL - 037	38592000
MPRACK_037,* ,6,CH	RACK NUMBER - 037	38628000
MPFEAT_037,* ,4,CH	FEATURE CODE - 037	38664000
MPUNIT_037,* ,8,CH	UNIT TYPE - 037	38700000
SKIP,8	RESERVED	38736000
MPVOLENT_038,* ,32	VOLUME ENTRY - 038	38772000
MPVOLSER_038,=,6,CH	VOLUME SERIAL - 038	38808000
MPRACK_038,* ,6,CH	RACK NUMBER - 038	38844000
MPFEAT_038,* ,4,CH	FEATURE CODE - 038	38880000
MPUNIT_038,* ,8,CH	UNIT TYPE - 038	38916000
SKIP,8	RESERVED	38952000
MPVOLENT_039,* ,32	VOLUME ENTRY - 039	38988000
MPVOLSER_039,=,6,CH	VOLUME SERIAL - 039	39024000
MPRACK_039,* ,6,CH	RACK NUMBER - 039	39060000
MPFEAT_039,* ,4,CH	FEATURE CODE - 039	39096000
MPUNIT_039,* ,8,CH	UNIT TYPE - 039	39132000
SKIP,8	RESERVED	39168000
MPVOLENT_040,* ,32	VOLUME ENTRY - 040	39204000
MPVOLSER_040,=,6,CH	VOLUME SERIAL - 040	39240000
MPRACK_040,* ,6,CH	RACK NUMBER - 040	39276000
MPFEAT_040,* ,4,CH	FEATURE CODE - 040	39312000
MPUNIT_040,* ,8,CH	UNIT TYPE - 040	39348000
SKIP,8	RESERVED	39384000
MPVOLENT_041,* ,32	VOLUME ENTRY - 041	39420000
MPVOLSER_041,=,6,CH	VOLUME SERIAL - 041	39456000
MPRACK_041,* ,6,CH	RACK NUMBER - 041	39492000
MPFEAT_041,* ,4,CH	FEATURE CODE - 041	39528000
MPUNIT_041,* ,8,CH	UNIT TYPE - 041	39564000
SKIP,8	RESERVED	39600000
MPVOLENT_042,* ,32	VOLUME ENTRY - 042	39636000
MPVOLSER_042,=,6,CH	VOLUME SERIAL - 042	39672000
MPRACK_042,* ,6,CH	RACK NUMBER - 042	39708000
MPFEAT_042,* ,4,CH	FEATURE CODE - 042	39744000
MPUNIT_042,* ,8,CH	UNIT TYPE - 042	39780000
SKIP,8	RESERVED	39816000
MPVOLENT_043,* ,32	VOLUME ENTRY - 043	39852000
MPVOLSER_043,=,6,CH	VOLUME SERIAL - 043	39888000
MPRACK_043,* ,6,CH	RACK NUMBER - 043	39924000
MPFEAT_043,* ,4,CH	FEATURE CODE - 043	39960000
MPUNIT_043,* ,8,CH	UNIT TYPE - 043	39996000
SKIP,8	RESERVED	40032000
MPVOLENT_044,* ,32	VOLUME ENTRY - 044	40068000
MPVOLSER_044,=,6,CH	VOLUME SERIAL - 044	40104000
MPRACK_044,* ,6,CH	RACK NUMBER - 044	40140000
MPFEAT_044,* ,4,CH	FEATURE CODE - 044	40176000
MPUNIT_044,* ,8,CH	UNIT TYPE - 044	40212000
SKIP,8	RESERVED	40248000
MPVOLENT_045,* ,32	VOLUME ENTRY - 045	40284000
MPVOLSER_045,=,6,CH	VOLUME SERIAL - 045	40320000
MPRACK_045,* ,6,CH	RACK NUMBER - 045	40356000
MPFEAT_045,* ,4,CH	FEATURE CODE - 045	40392000
MPUNIT_045,* ,8,CH	UNIT TYPE - 045	40428000

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SKIP,8	RESERVED	40464000
MPVOLENT_046,*,32	VOLUME ENTRY - 046	40500000
MPVOLSER_046,=,6,CH	VOLUME SERIAL - 046	40536000
MPRACK_046,*,6,CH	RACK NUMBER - 046	40572000
MPFEAT_046,*,4,CH	FEATURE CODE - 046	40608000
MPUNIT_046,*,8,CH	UNIT TYPE - 046	40644000
SKIP,8	RESERVED	40680000
MPVOLENT_047,*,32	VOLUME ENTRY - 047	40716000
MPVOLSER_047,=,6,CH	VOLUME SERIAL - 047	40752000
MPRACK_047,*,6,CH	RACK NUMBER - 047	40788000
MPFEAT_047,*,4,CH	FEATURE CODE - 047	40824000
MPUNIT_047,*,8,CH	UNIT TYPE - 047	40860000
SKIP,8	RESERVED	40896000
MPVOLENT_048,*,32	VOLUME ENTRY - 048	40932000
MPVOLSER_048,=,6,CH	VOLUME SERIAL - 048	40968000
MPRACK_048,*,6,CH	RACK NUMBER - 048	41004000
MPFEAT_048,*,4,CH	FEATURE CODE - 048	41040000
MPUNIT_048,*,8,CH	UNIT TYPE - 048	41076000
SKIP,8	RESERVED	41112000
MPVOLENT_049,*,32	VOLUME ENTRY - 049	41148000
MPVOLSER_049,=,6,CH	VOLUME SERIAL - 049	41184000
MPRACK_049,*,6,CH	RACK NUMBER - 049	41220000
MPFEAT_049,*,4,CH	FEATURE CODE - 049	41256000
MPUNIT_049,*,8,CH	UNIT TYPE - 049	41292000
SKIP,8	RESERVED	41328000
MPVOLENT_050,*,32	VOLUME ENTRY - 050	41364000
MPVOLSER_050,=,6,CH	VOLUME SERIAL - 050	41400000
MPRACK_050,*,6,CH	RACK NUMBER - 050	41436000
MPFEAT_050,*,4,CH	FEATURE CODE - 050	41472000
MPUNIT_050,*,8,CH	UNIT TYPE - 050	41508000
SKIP,8	RESERVED	41544000
MPVOLENT_051,*,32	VOLUME ENTRY - 051	41580000
MPVOLSER_051,=,6,CH	VOLUME SERIAL - 051	41616000
MPRACK_051,*,6,CH	RACK NUMBER - 051	41652000
MPFEAT_051,*,4,CH	FEATURE CODE - 051	41688000
MPUNIT_051,*,8,CH	UNIT TYPE - 051	41724000
SKIP,8	RESERVED	41760000
MPVOLENT_052,*,32	VOLUME ENTRY - 052	41796000
MPVOLSER_052,=,6,CH	VOLUME SERIAL - 052	41832000
MPRACK_052,*,6,CH	RACK NUMBER - 052	41868000
MPFEAT_052,*,4,CH	FEATURE CODE - 052	41904000
MPUNIT_052,*,8,CH	UNIT TYPE - 052	41940000
SKIP,8	RESERVED	41976000
MPVOLENT_053,*,32	VOLUME ENTRY - 053	42012000
MPVOLSER_053,=,6,CH	VOLUME SERIAL - 053	42048000
MPRACK_053,*,6,CH	RACK NUMBER - 053	42084000
MPFEAT_053,*,4,CH	FEATURE CODE - 053	42120000
MPUNIT_053,*,8,CH	UNIT TYPE - 053	42156000
SKIP,8	RESERVED	42192000
MPVOLENT_054,*,32	VOLUME ENTRY - 054	42228000
MPVOLSER_054,=,6,CH	VOLUME SERIAL - 054	42264000
MPRACK_054,*,6,CH	RACK NUMBER - 054	42300000
MPFEAT_054,*,4,CH	FEATURE CODE - 054	42336000
MPUNIT_054,*,8,CH	UNIT TYPE - 054	42372000
SKIP,8	RESERVED	42408000
MPVOLENT_055,*,32	VOLUME ENTRY - 055	42444000
MPVOLSER_055,=,6,CH	VOLUME SERIAL - 055	42480000
MPRACK_055,*,6,CH	RACK NUMBER - 055	42516000
MPFEAT_055,*,4,CH	FEATURE CODE - 055	42552000
MPUNIT_055,*,8,CH	UNIT TYPE - 055	42588000
SKIP,8	RESERVED	42624000
MPVOLENT_056,*,32	VOLUME ENTRY - 056	42660000
MPVOLSER_056,=,6,CH	VOLUME SERIAL - 056	42696000
MPRACK_056,*,6,CH	RACK NUMBER - 056	42732000
MPFEAT_056,*,4,CH	FEATURE CODE - 056	42768000
MPUNIT_056,*,8,CH	UNIT TYPE - 056	42804000
SKIP,8	RESERVED	42840000

MPVOLENT_057,*,32	VOLUME ENTRY - 057	42876000
MPVOLSÉR_057,=,6,CH	VOLUME SERIAL - 057	42912000
MPRACK_057,*,6,CH	RACK NUMBER - 057	42948000
MPFEAT_057,*,4,CH	FEATURE CODE - 057	42984000
MPUNIT_057,*,8,CH	UNIT TYPE - 057	43020000
SKIP,8	RESERVED	43056000
MPVOLENT_058,*,32	VOLUME ENTRY - 058	43092000
MPVOLSÉR_058,=,6,CH	VOLUME SERIAL - 058	43128000
MPRACK_058,*,6,CH	RACK NUMBER - 058	43164000
MPFEAT_058,*,4,CH	FEATURE CODE - 058	43200000
MPUNIT_058,*,8,CH	UNIT TYPE - 058	43236000
SKIP,8	RESERVED	43272000
MPVOLENT_059,*,32	VOLUME ENTRY - 059	43308000
MPVOLSÉR_059,=,6,CH	VOLUME SERIAL - 059	43344000
MPRACK_059,*,6,CH	RACK NUMBER - 059	43380000
MPFEAT_059,*,4,CH	FEATURE CODE - 059	43416000
MPUNIT_059,*,8,CH	UNIT TYPE - 059	43452000
SKIP,8	RESERVED	43488000
MPVOLENT_060,*,32	VOLUME ENTRY - 060	43524000
MPVOLSÉR_060,=,6,CH	VOLUME SERIAL - 060	43560000
MPRACK_060,*,6,CH	RACK NUMBER - 060	43596000
MPFEAT_060,*,4,CH	FEATURE CODE - 060	43632000
MPUNIT_060,*,8,CH	UNIT TYPE - 060	43668000
SKIP,8	RESERVED	43704000
MPVOLENT_061,*,32	VOLUME ENTRY - 061	43740000
MPVOLSÉR_061,=,6,CH	VOLUME SERIAL - 061	43776000
MPRACK_061,*,6,CH	RACK NUMBER - 061	43812000
MPFEAT_061,*,4,CH	FEATURE CODE - 061	43848000
MPUNIT_061,*,8,CH	UNIT TYPE - 061	43884000
SKIP,8	RESERVED	43920000
MPVOLENT_062,*,32	VOLUME ENTRY - 062	43956000
MPVOLSÉR_062,=,6,CH	VOLUME SERIAL - 062	43992000
MPRACK_062,*,6,CH	RACK NUMBER - 062	44028000
MPFEAT_062,*,4,CH	FEATURE CODE - 062	44064000
MPUNIT_062,*,8,CH	UNIT TYPE - 062	44100000
SKIP,8	RESERVED	44136000
MPVOLENT_063,*,32	VOLUME ENTRY - 063	44172000
MPVOLSÉR_063,=,6,CH	VOLUME SERIAL - 063	44208000
MPRACK_063,*,6,CH	RACK NUMBER - 063	44244000
MPFEAT_063,*,4,CH	FEATURE CODE - 063	44280000
MPUNIT_063,*,8,CH	UNIT TYPE - 063	44316000
SKIP,8	RESERVED	44352000
MPVOLENT_064,*,32	VOLUME ENTRY - 064	44388000
MPVOLSÉR_064,=,6,CH	VOLUME SERIAL - 064	44424000
MPRACK_064,*,6,CH	RACK NUMBER - 064	44460000
MPFEAT_064,*,4,CH	FEATURE CODE - 064	44496000
MPUNIT_064,*,8,CH	UNIT TYPE - 064	44532000
SKIP,8	RESERVED	44568000
MPVOLENT_065,*,32	VOLUME ENTRY - 065	44604000
MPVOLSÉR_065,=,6,CH	VOLUME SERIAL - 065	44640000
MPRACK_065,*,6,CH	RACK NUMBER - 065	44676000
MPFEAT_065,*,4,CH	FEATURE CODE - 065	44712000
MPUNIT_065,*,8,CH	UNIT TYPE - 065	44748000
SKIP,8	RESERVED	44784000
MPVOLENT_066,*,32	VOLUME ENTRY - 066	44820000
MPVOLSÉR_066,=,6,CH	VOLUME SERIAL - 066	44856000
MPRACK_066,*,6,CH	RACK NUMBER - 066	44892000
MPFEAT_066,*,4,CH	FEATURE CODE - 066	44928000
MPUNIT_066,*,8,CH	UNIT TYPE - 066	44964000
SKIP,8	RESERVED	45000000
MPVOLENT_067,*,32	VOLUME ENTRY - 067	45036000
MPVOLSÉR_067,=,6,CH	VOLUME SERIAL - 067	45072000
MPRACK_067,*,6,CH	RACK NUMBER - 067	45108000
MPFEAT_067,*,4,CH	FEATURE CODE - 067	45144000
MPUNIT_067,*,8,CH	UNIT TYPE - 067	45180000
SKIP,8	RESERVED	45216000
MPVOLENT_068,*,32	VOLUME ENTRY - 068	45252000

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MPVOLSER_068,=,6,CH	VOLUME SERIAL - 068	45288000
MPRACK_068,*,6,CH	RACK NUMBER - 068	45324000
MPFEAT_068,*,4,CH	FEATURE CODE - 068	45360000
MPUNIT_068,*,8,CH	UNIT TYPE - 068	45396000
SKIP,8	RESERVED	45432000
MPVOLENT_069,*,32	VOLUME ENTRY - 069	45468000
MPVOLSER_069,=,6,CH	VOLUME SERIAL - 069	45504000
MPRACK_069,*,6,CH	RACK NUMBER - 069	45540000
MPFEAT_069,*,4,CH	FEATURE CODE - 069	45576000
MPUNIT_069,*,8,CH	UNIT TYPE - 069	45612000
SKIP,8	RESERVED	45648000
MPVOLENT_070,*,32	VOLUME ENTRY - 070	45684000
MPVOLSER_070,=,6,CH	VOLUME SERIAL - 070	45720000
MPRACK_070,*,6,CH	RACK NUMBER - 070	45756000
MPFEAT_070,*,4,CH	FEATURE CODE - 070	45792000
MPUNIT_070,*,8,CH	UNIT TYPE - 070	45828000
SKIP,8	RESERVED	45864000
MPVOLENT_071,*,32	VOLUME ENTRY - 071	45900000
MPVOLSER_071,=,6,CH	VOLUME SERIAL - 071	45936000
MPRACK_071,*,6,CH	RACK NUMBER - 071	45972000
MPFEAT_071,*,4,CH	FEATURE CODE - 071	46008000
MPUNIT_071,*,8,CH	UNIT TYPE - 071	46044000
SKIP,8	RESERVED	46080000
MPVOLENT_072,*,32	VOLUME ENTRY - 072	46116000
MPVOLSER_072,=,6,CH	VOLUME SERIAL - 072	46152000
MPRACK_072,*,6,CH	RACK NUMBER - 072	46188000
MPFEAT_072,*,4,CH	FEATURE CODE - 072	46224000
MPUNIT_072,*,8,CH	UNIT TYPE - 072	46260000
SKIP,8	RESERVED	46296000
MPVOLENT_073,*,32	VOLUME ENTRY - 073	46332000
MPVOLSER_073,=,6,CH	VOLUME SERIAL - 073	46368000
MPRACK_073,*,6,CH	RACK NUMBER - 073	46404000
MPFEAT_073,*,4,CH	FEATURE CODE - 073	46440000
MPUNIT_073,*,8,CH	UNIT TYPE - 073	46476000
SKIP,8	RESERVED	46512000
MPVOLENT_074,*,32	VOLUME ENTRY - 074	46548000
MPVOLSER_074,=,6,CH	VOLUME SERIAL - 074	46584000
MPRACK_074,*,6,CH	RACK NUMBER - 074	46620000
MPFEAT_074,*,4,CH	FEATURE CODE - 074	46656000
MPUNIT_074,*,8,CH	UNIT TYPE - 074	46692000
SKIP,8	RESERVED	46728000
MPVOLENT_075,*,32	VOLUME ENTRY - 075	46764000
MPVOLSER_075,=,6,CH	VOLUME SERIAL - 075	46800000
MPRACK_075,*,6,CH	RACK NUMBER - 075	46836000
MPFEAT_075,*,4,CH	FEATURE CODE - 075	46872000
MPUNIT_075,*,8,CH	UNIT TYPE - 075	46908000
SKIP,8	RESERVED	46944000
MPVOLENT_076,*,32	VOLUME ENTRY - 076	46980000
MPVOLSER_076,=,6,CH	VOLUME SERIAL - 076	47016000
MPRACK_076,*,6,CH	RACK NUMBER - 076	47052000
MPFEAT_076,*,4,CH	FEATURE CODE - 076	47088000
MPUNIT_076,*,8,CH	UNIT TYPE - 076	47124000
SKIP,8	RESERVED	47160000
MPVOLENT_077,*,32	VOLUME ENTRY - 077	47196000
MPVOLSER_077,=,6,CH	VOLUME SERIAL - 077	47232000
MPRACK_077,*,6,CH	RACK NUMBER - 077	47268000
MPFEAT_077,*,4,CH	FEATURE CODE - 077	47304000
MPUNIT_077,*,8,CH	UNIT TYPE - 077	47340000
SKIP,8	RESERVED	47376000
MPVOLENT_078,*,32	VOLUME ENTRY - 078	47412000
MPVOLSER_078,=,6,CH	VOLUME SERIAL - 078	47448000
MPRACK_078,*,6,CH	RACK NUMBER - 078	47484000
MPFEAT_078,*,4,CH	FEATURE CODE - 078	47520000
MPUNIT_078,*,8,CH	UNIT TYPE - 078	47556000
SKIP,8	RESERVED	47592000
MPVOLENT_079,*,32	VOLUME ENTRY - 079	47628000
MPVOLSER_079,=,6,CH	VOLUME SERIAL - 079	47664000

MPRACK_079,*,6,CH	RACK NUMBER - 079	47700000
MPFEAT_079,*,4,CH	FEATURE CODE - 079	47736000
MPUNIT_079,*,8,CH	UNIT TYPE - 079	47772000
SKIP,8	RESERVED	47808000
MPVOLENT_080,*,32	VOLUME ENTRY - 080	47844000
MPVOLSER_080,=,6,CH	VOLUME SERIAL - 080	47880000
MPRACK_080,*,6,CH	RACK NUMBER - 080	47916000
MPFEAT_080,*,4,CH	FEATURE CODE - 080	47952000
MPUNIT_080,*,8,CH	UNIT TYPE - 080	47988000
SKIP,8	RESERVED	48024000
MPVOLENT_081,*,32	VOLUME ENTRY - 081	48060000
MPVOLSER_081,=,6,CH	VOLUME SERIAL - 081	48096000
MPRACK_081,*,6,CH	RACK NUMBER - 081	48132000
MPFEAT_081,*,4,CH	FEATURE CODE - 081	48168000
MPUNIT_081,*,8,CH	UNIT TYPE - 081	48204000
SKIP,8	RESERVED	48240000
MPVOLENT_082,*,32	VOLUME ENTRY - 082	48276000
MPVOLSER_082,=,6,CH	VOLUME SERIAL - 082	48312000
MPRACK_082,*,6,CH	RACK NUMBER - 082	48348000
MPFEAT_082,*,4,CH	FEATURE CODE - 082	48384000
MPUNIT_082,*,8,CH	UNIT TYPE - 082	48420000
SKIP,8	RESERVED	48456000
MPVOLENT_083,*,32	VOLUME ENTRY - 083	48492000
MPVOLSER_083,=,6,CH	VOLUME SERIAL - 083	48528000
MPRACK_083,*,6,CH	RACK NUMBER - 083	48564000
MPFEAT_083,*,4,CH	FEATURE CODE - 083	48600000
MPUNIT_083,*,8,CH	UNIT TYPE - 083	48636000
SKIP,8	RESERVED	48672000
MPVOLENT_084,*,32	VOLUME ENTRY - 084	48708000
MPVOLSER_084,=,6,CH	VOLUME SERIAL - 084	48744000
MPRACK_084,*,6,CH	RACK NUMBER - 084	48780000
MPFEAT_084,*,4,CH	FEATURE CODE - 084	48816000
MPUNIT_084,*,8,CH	UNIT TYPE - 084	48852000
SKIP,8	RESERVED	48888000
MPVOLENT_085,*,32	VOLUME ENTRY - 085	48924000
MPVOLSER_085,=,6,CH	VOLUME SERIAL - 085	48960000
MPRACK_085,*,6,CH	RACK NUMBER - 085	48996000
MPFEAT_085,*,4,CH	FEATURE CODE - 085	49032000
MPUNIT_085,*,8,CH	UNIT TYPE - 085	49068000
SKIP,8	RESERVED	49104000
MPVOLENT_086,*,32	VOLUME ENTRY - 086	49140000
MPVOLSER_086,=,6,CH	VOLUME SERIAL - 086	49176000
MPRACK_086,*,6,CH	RACK NUMBER - 086	49212000
MPFEAT_086,*,4,CH	FEATURE CODE - 086	49248000
MPUNIT_086,*,8,CH	UNIT TYPE - 086	49284000
SKIP,8	RESERVED	49320000
MPVOLENT_087,*,32	VOLUME ENTRY - 087	49356000
MPVOLSER_087,=,6,CH	VOLUME SERIAL - 087	49392000
MPRACK_087,*,6,CH	RACK NUMBER - 087	49428000
MPFEAT_087,*,4,CH	FEATURE CODE - 087	49464000
MPUNIT_087,*,8,CH	UNIT TYPE - 087	49500000
SKIP,8	RESERVED	49536000
MPVOLENT_088,*,32	VOLUME ENTRY - 088	49572000
MPVOLSER_088,=,6,CH	VOLUME SERIAL - 088	49608000
MPRACK_088,*,6,CH	RACK NUMBER - 088	49644000
MPFEAT_088,*,4,CH	FEATURE CODE - 088	49680000
MPUNIT_088,*,8,CH	UNIT TYPE - 088	49716000
SKIP,8	RESERVED	49752000
MPVOLENT_089,*,32	VOLUME ENTRY - 089	49788000
MPVOLSER_089,=,6,CH	VOLUME SERIAL - 089	49824000
MPRACK_089,*,6,CH	RACK NUMBER - 089	49860000
MPFEAT_089,*,4,CH	FEATURE CODE - 089	49896000
MPUNIT_089,*,8,CH	UNIT TYPE - 089	49932000
SKIP,8	RESERVED	49968000
MPVOLENT_090,*,32	VOLUME ENTRY - 090	50004000
MPVOLSER_090,=,6,CH	VOLUME SERIAL - 090	50040000
MPRACK_090,*,6,CH	RACK NUMBER - 090	50076000

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MPFEAT_090,*,4,CH	FEATURE CODE - 090	50112000
MPUNIT_090,*,8,CH	UNIT TYPE - 090	50148000
SKIP,8	RESERVED	50184000
MPVOLENT_091,*,32	VOLUME ENTRY - 091	50220000
MPVOLSER_091,=,6,CH	VOLUME SERIAL - 091	50256000
MPRACK_091,*,6,CH	RACK NUMBER - 091	50292000
MPFEAT_091,*,4,CH	FEATURE CODE - 091	50328000
MPUNIT_091,*,8,CH	UNIT TYPE - 091	50364000
SKIP,8	RESERVED	50400000
MPVOLENT_092,*,32	VOLUME ENTRY - 092	50436000
MPVOLSER_092,=,6,CH	VOLUME SERIAL - 092	50472000
MPRACK_092,*,6,CH	RACK NUMBER - 092	50508000
MPFEAT_092,*,4,CH	FEATURE CODE - 092	50544000
MPUNIT_092,*,8,CH	UNIT TYPE - 092	50580000
SKIP,8	RESERVED	50616000
MPVOLENT_093,*,32	VOLUME ENTRY - 093	50652000
MPVOLSER_093,=,6,CH	VOLUME SERIAL - 093	50688000
MPRACK_093,*,6,CH	RACK NUMBER - 093	50724000
MPFEAT_093,*,4,CH	FEATURE CODE - 093	50760000
MPUNIT_093,*,8,CH	UNIT TYPE - 093	50796000
SKIP,8	RESERVED	50832000
MPVOLENT_094,*,32	VOLUME ENTRY - 094	50868000
MPVOLSER_094,=,6,CH	VOLUME SERIAL - 094	50904000
MPRACK_094,*,6,CH	RACK NUMBER - 094	50940000
MPFEAT_094,*,4,CH	FEATURE CODE - 094	50976000
MPUNIT_094,*,8,CH	UNIT TYPE - 094	51012000
SKIP,8	RESERVED	51048000
MPVOLENT_095,*,32	VOLUME ENTRY - 095	51084000
MPVOLSER_095,=,6,CH	VOLUME SERIAL - 095	51120000
MPRACK_095,*,6,CH	RACK NUMBER - 095	51156000
MPFEAT_095,*,4,CH	FEATURE CODE - 095	51192000
MPUNIT_095,*,8,CH	UNIT TYPE - 095	51228000
SKIP,8	RESERVED	51264000
MPVOLENT_096,*,32	VOLUME ENTRY - 096	51300000
MPVOLSER_096,=,6,CH	VOLUME SERIAL - 096	51336000
MPRACK_096,*,6,CH	RACK NUMBER - 096	51372000
MPFEAT_096,*,4,CH	FEATURE CODE - 096	51408000
MPUNIT_096,*,8,CH	UNIT TYPE - 096	51444000
SKIP,8	RESERVED	51480000
MPVOLENT_097,*,32	VOLUME ENTRY - 097	51516000
MPVOLSER_097,=,6,CH	VOLUME SERIAL - 097	51552000
MPRACK_097,*,6,CH	RACK NUMBER - 097	51588000
MPFEAT_097,*,4,CH	FEATURE CODE - 097	51624000
MPUNIT_097,*,8,CH	UNIT TYPE - 097	51660000
SKIP,8	RESERVED	51696000
MPVOLENT_098,*,32	VOLUME ENTRY - 098	51732000
MPVOLSER_098,=,6,CH	VOLUME SERIAL - 098	51768000
MPRACK_098,*,6,CH	RACK NUMBER - 098	51804000
MPFEAT_098,*,4,CH	FEATURE CODE - 098	51840000
MPUNIT_098,*,8,CH	UNIT TYPE - 098	51876000
SKIP,8	RESERVED	51912000
MPVOLENT_099,*,32	VOLUME ENTRY - 099	51948000
MPVOLSER_099,=,6,CH	VOLUME SERIAL - 099	51984000
MPRACK_099,*,6,CH	RACK NUMBER - 099	52020000
MPFEAT_099,*,4,CH	FEATURE CODE - 099	52056000
MPUNIT_099,*,8,CH	UNIT TYPE - 099	52092000
SKIP,8	RESERVED	52128000
MPVOLENT_100,*,32	VOLUME ENTRY - 100	52164000
MPVOLSER_100,=,6,CH	VOLUME SERIAL - 100	52200000
MPRACK_100,*,6,CH	RACK NUMBER - 100	52236000
MPFEAT_100,*,4,CH	FEATURE CODE - 100	52272000
MPUNIT_100,*,8,CH	UNIT TYPE - 100	52308000
SKIP,8	RESERVED	52344000
MPVOLENT_101,*,32	VOLUME ENTRY - 101	52380000
MPVOLSER_101,=,6,CH	VOLUME SERIAL - 101	52416000
MPRACK_101,*,6,CH	RACK NUMBER - 101	52452000
MPFEAT_101,*,4,CH	FEATURE CODE - 101	52488000



MPUNIT_101,* ,8,CH	UNIT TYPE - 101	52524000
SKIP,8	RESERVED	52560000
MPVOLENT_102,* ,32	VOLUME ENTRY - 102	52596000
MPVOLSER_102,=,6,CH	VOLUME SERIAL - 102	52632000
MPRACK_102,* ,6,CH	RACK NUMBER - 102	52668000
MPFEAT_102,* ,4,CH	FEATURE CODE - 102	52704000
MPUNIT_102,* ,8,CH	UNIT TYPE - 102	52740000
SKIP,8	RESERVED	52776000
MPVOLENT_103,* ,32	VOLUME ENTRY - 103	52812000
MPVOLSER_103,=,6,CH	VOLUME SERIAL - 103	52848000
MPRACK_103,* ,6,CH	RACK NUMBER - 103	52884000
MPFEAT_103,* ,4,CH	FEATURE CODE - 103	52920000
MPUNIT_103,* ,8,CH	UNIT TYPE - 103	52956000
SKIP,8	RESERVED	52992000
MPVOLENT_104,* ,32	VOLUME ENTRY - 104	53028000
MPVOLSER_104,=,6,CH	VOLUME SERIAL - 104	53064000
MPRACK_104,* ,6,CH	RACK NUMBER - 104	53100000
MPFEAT_104,* ,4,CH	FEATURE CODE - 104	53136000
MPUNIT_104,* ,8,CH	UNIT TYPE - 104	53172000
SKIP,8	RESERVED	53208000
MPVOLENT_105,* ,32	VOLUME ENTRY - 105	53244000
MPVOLSER_105,=,6,CH	VOLUME SERIAL - 105	53280000
MPRACK_105,* ,6,CH	RACK NUMBER - 105	53316000
MPFEAT_105,* ,4,CH	FEATURE CODE - 105	53352000
MPUNIT_105,* ,8,CH	UNIT TYPE - 105	53388000
SKIP,8	RESERVED	53424000
MPVOLENT_106,* ,32	VOLUME ENTRY - 106	53460000
MPVOLSER_106,=,6,CH	VOLUME SERIAL - 106	53496000
MPRACK_106,* ,6,CH	RACK NUMBER - 106	53532000
MPFEAT_106,* ,4,CH	FEATURE CODE - 106	53568000
MPUNIT_106,* ,8,CH	UNIT TYPE - 106	53604000
SKIP,8	RESERVED	53640000
MPVOLENT_107,* ,32	VOLUME ENTRY - 107	53676000
MPVOLSER_107,=,6,CH	VOLUME SERIAL - 107	53712000
MPRACK_107,* ,6,CH	RACK NUMBER - 107	53748000
MPFEAT_107,* ,4,CH	FEATURE CODE - 107	53784000
MPUNIT_107,* ,8,CH	UNIT TYPE - 107	53820000
SKIP,8	RESERVED	53856000
MPVOLENT_108,* ,32	VOLUME ENTRY - 108	53892000
MPVOLSER_108,=,6,CH	VOLUME SERIAL - 108	53928000
MPRACK_108,* ,6,CH	RACK NUMBER - 108	53964000
MPFEAT_108,* ,4,CH	FEATURE CODE - 108	54000000
MPUNIT_108,* ,8,CH	UNIT TYPE - 108	54036000
SKIP,8	RESERVED	54072000
MPVOLENT_109,* ,32	VOLUME ENTRY - 109	54108000
MPVOLSER_109,=,6,CH	VOLUME SERIAL - 109	54144000
MPRACK_109,* ,6,CH	RACK NUMBER - 109	54180000
MPFEAT_109,* ,4,CH	FEATURE CODE - 109	54216000
MPUNIT_109,* ,8,CH	UNIT TYPE - 109	54252000
SKIP,8	RESERVED	54288000
MPVOLENT_110,* ,32	VOLUME ENTRY - 110	54324000
MPVOLSER_110,=,6,CH	VOLUME SERIAL - 110	54360000
MPRACK_110,* ,6,CH	RACK NUMBER - 110	54396000
MPFEAT_110,* ,4,CH	FEATURE CODE - 110	54432000
MPUNIT_110,* ,8,CH	UNIT TYPE - 110	54468000
SKIP,8	RESERVED	54504000
MPVOLENT_111,* ,32	VOLUME ENTRY - 111	54540000
MPVOLSER_111,=,6,CH	VOLUME SERIAL - 111	54576000
MPRACK_111,* ,6,CH	RACK NUMBER - 111	54612000
MPFEAT_111,* ,4,CH	FEATURE CODE - 111	54648000
MPUNIT_111,* ,8,CH	UNIT TYPE - 111	54684000
SKIP,8	RESERVED	54720000
MPVOLENT_112,* ,32	VOLUME ENTRY - 112	54756000
MPVOLSER_112,=,6,CH	VOLUME SERIAL - 112	54792000
MPRACK_112,* ,6,CH	RACK NUMBER - 112	54828000
MPFEAT_112,* ,4,CH	FEATURE CODE - 112	54864000
MPUNIT_112,* ,8,CH	UNIT TYPE - 112	54900000

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SKIP,8	RESERVED	54936000
MPVOLENT_113,*,32	VOLUME ENTRY - 113	54972000
MPVOLSER_113,=,6,CH	VOLUME SERIAL - 113	55008000
MPRACK_113,*,6,CH	RACK NUMBER - 113	55044000
MPFEAT_113,*,4,CH	FEATURE CODE - 113	55080000
MPUNIT_113,*,8,CH	UNIT TYPE - 113	55116000
SKIP,8	RESERVED	55152000
MPVOLENT_114,*,32	VOLUME ENTRY - 114	55188000
MPVOLSER_114,=,6,CH	VOLUME SERIAL - 114	55224000
MPRACK_114,*,6,CH	RACK NUMBER - 114	55260000
MPFEAT_114,*,4,CH	FEATURE CODE - 114	55296000
MPUNIT_114,*,8,CH	UNIT TYPE - 114	55332000
SKIP,8	RESERVED	55368000
MPVOLENT_115,*,32	VOLUME ENTRY - 115	55404000
MPVOLSER_115,=,6,CH	VOLUME SERIAL - 115	55440000
MPRACK_115,*,6,CH	RACK NUMBER - 115	55476000
MPFEAT_115,*,4,CH	FEATURE CODE - 115	55512000
MPUNIT_115,*,8,CH	UNIT TYPE - 115	55548000
SKIP,8	RESERVED	55584000
MPVOLENT_116,*,32	VOLUME ENTRY - 116	55620000
MPVOLSER_116,=,6,CH	VOLUME SERIAL - 116	55656000
MPRACK_116,*,6,CH	RACK NUMBER - 116	55692000
MPFEAT_116,*,4,CH	FEATURE CODE - 116	55728000
MPUNIT_116,*,8,CH	UNIT TYPE - 116	55764000
SKIP,8	RESERVED	55800000
MPVOLENT_117,*,32	VOLUME ENTRY - 117	55836000
MPVOLSER_117,=,6,CH	VOLUME SERIAL - 117	55872000
MPRACK_117,*,6,CH	RACK NUMBER - 117	55908000
MPFEAT_117,*,4,CH	FEATURE CODE - 117	55944000
MPUNIT_117,*,8,CH	UNIT TYPE - 117	55980000
SKIP,8	RESERVED	56016000
MPVOLENT_118,*,32	VOLUME ENTRY - 118	56052000
MPVOLSER_118,=,6,CH	VOLUME SERIAL - 118	56088000
MPRACK_118,*,6,CH	RACK NUMBER - 118	56124000
MPFEAT_118,*,4,CH	FEATURE CODE - 118	56160000
MPUNIT_118,*,8,CH	UNIT TYPE - 118	56196000
SKIP,8	RESERVED	56232000
MPVOLENT_119,*,32	VOLUME ENTRY - 119	56268000
MPVOLSER_119,=,6,CH	VOLUME SERIAL - 119	56304000
MPRACK_119,*,6,CH	RACK NUMBER - 119	56340000
MPFEAT_119,*,4,CH	FEATURE CODE - 119	56376000
MPUNIT_119,*,8,CH	UNIT TYPE - 119	56412000
SKIP,8	RESERVED	56448000
MPVOLENT_120,*,32	VOLUME ENTRY - 120	56484000
MPVOLSER_120,=,6,CH	VOLUME SERIAL - 120	56520000
MPRACK_120,*,6,CH	RACK NUMBER - 120	56556000
MPFEAT_120,*,4,CH	FEATURE CODE - 120	56592000
MPUNIT_120,*,8,CH	UNIT TYPE - 120	56628000
SKIP,8	RESERVED	56664000
MPVOLENT_121,*,32	VOLUME ENTRY - 121	56700000
MPVOLSER_121,=,6,CH	VOLUME SERIAL - 121	56736000
MPRACK_121,*,6,CH	RACK NUMBER - 121	56772000
MPFEAT_121,*,4,CH	FEATURE CODE - 121	56808000
MPUNIT_121,*,8,CH	UNIT TYPE - 121	56844000
SKIP,8	RESERVED	56880000
MPVOLENT_122,*,32	VOLUME ENTRY - 122	56916000
MPVOLSER_122,=,6,CH	VOLUME SERIAL - 122	56952000
MPRACK_122,*,6,CH	RACK NUMBER - 122	56988000
MPFEAT_122,*,4,CH	FEATURE CODE - 122	57024000
MPUNIT_122,*,8,CH	UNIT TYPE - 122	57060000
SKIP,8	RESERVED	57096000
MPVOLENT_123,*,32	VOLUME ENTRY - 123	57132000
MPVOLSER_123,=,6,CH	VOLUME SERIAL - 123	57168000
MPRACK_123,*,6,CH	RACK NUMBER - 123	57204000
MPFEAT_123,*,4,CH	FEATURE CODE - 123	57240000
MPUNIT_123,*,8,CH	UNIT TYPE - 123	57276000
SKIP,8	RESERVED	57312000



MPVOLENT_124,*,32	VOLUME ENTRY - 124	57348000
MPVOLSÉR_124,=,6,CH	VOLUME SERIAL - 124	57384000
MPRACK_124,*,6,CH	RACK NUMBER - 124	57420000
MPFEAT_124,*,4,CH	FEATURE CODE - 124	57456000
MPUNIT_124,*,8,CH	UNIT TYPE - 124	57492000
SKIP,8	RESERVED	57528000
MPVOLENT_125,*,32	VOLUME ENTRY - 125	57564000
MPVOLSÉR_125,=,6,CH	VOLUME SERIAL - 125	57600000
MPRACK_125,*,6,CH	RACK NUMBER - 125	57636000
MPFEAT_125,*,4,CH	FEATURE CODE - 125	57672000
MPUNIT_125,*,8,CH	UNIT TYPE - 125	57708000
SKIP,8	RESERVED	57744000
MPVOLENT_126,*,32	VOLUME ENTRY - 126	57780000
MPVOLSÉR_126,=,6,CH	VOLUME SERIAL - 126	57816000
MPRACK_126,*,6,CH	RACK NUMBER - 126	57852000
MPFEAT_126,*,4,CH	FEATURE CODE - 126	57888000
MPUNIT_126,*,8,CH	UNIT TYPE - 126	57924000
SKIP,8	RESERVED	57960000
MPVOLENT_127,*,32	VOLUME ENTRY - 127	57996000
MPVOLSÉR_127,=,6,CH	VOLUME SERIAL - 127	58032000
MPRACK_127,*,6,CH	RACK NUMBER - 127	58068000
MPFEAT_127,*,4,CH	FEATURE CODE - 127	58104000
MPUNIT_127,*,8,CH	UNIT TYPE - 127	58140000
SKIP,8	RESERVED	58176000
MPVOLENT_128,*,32	VOLUME ENTRY - 128	58212000
MPVOLSÉR_128,=,6,CH	VOLUME SERIAL - 128	58248000
MPRACK_128,*,6,CH	RACK NUMBER - 128	58284000
MPFEAT_128,*,4,CH	FEATURE CODE - 128	58320000
MPUNIT_128,*,8,CH	UNIT TYPE - 128	58356000
SKIP,8	RESERVED	58392000
MPVOLENT_129,*,32	VOLUME ENTRY - 129	58428000
MPVOLSÉR_129,=,6,CH	VOLUME SERIAL - 129	58464000
MPRACK_129,*,6,CH	RACK NUMBER - 129	58500000
MPFEAT_129,*,4,CH	FEATURE CODE - 129	58536000
MPUNIT_129,*,8,CH	UNIT TYPE - 129	58572000
SKIP,8	RESERVED	58608000
MPVOLENT_130,*,32	VOLUME ENTRY - 130	58644000
MPVOLSÉR_130,=,6,CH	VOLUME SERIAL - 130	58680000
MPRACK_130,*,6,CH	RACK NUMBER - 130	58716000
MPFEAT_130,*,4,CH	FEATURE CODE - 130	58752000
MPUNIT_130,*,8,CH	UNIT TYPE - 130	58788000
SKIP,8	RESERVED	58824000
MPVOLENT_131,*,32	VOLUME ENTRY - 131	58860000
MPVOLSÉR_131,=,6,CH	VOLUME SERIAL - 131	58896000
MPRACK_131,*,6,CH	RACK NUMBER - 131	58932000
MPFEAT_131,*,4,CH	FEATURE CODE - 131	58968000
MPUNIT_131,*,8,CH	UNIT TYPE - 131	59004000
SKIP,8	RESERVED	59040000
MPVOLENT_132,*,32	VOLUME ENTRY - 132	59076000
MPVOLSÉR_132,=,6,CH	VOLUME SERIAL - 132	59112000
MPRACK_132,*,6,CH	RACK NUMBER - 132	59148000
MPFEAT_132,*,4,CH	FEATURE CODE - 132	59184000
MPUNIT_132,*,8,CH	UNIT TYPE - 132	59220000
SKIP,8	RESERVED	59256000
MPVOLENT_133,*,32	VOLUME ENTRY - 133	59292000
MPVOLSÉR_133,=,6,CH	VOLUME SERIAL - 133	59328000
MPRACK_133,*,6,CH	RACK NUMBER - 133	59364000
MPFEAT_133,*,4,CH	FEATURE CODE - 133	59400000
MPUNIT_133,*,8,CH	UNIT TYPE - 133	59436000
SKIP,8	RESERVED	59472000
MPVOLENT_134,*,32	VOLUME ENTRY - 134	59508000
MPVOLSÉR_134,=,6,CH	VOLUME SERIAL - 134	59544000
MPRACK_134,*,6,CH	RACK NUMBER - 134	59580000
MPFEAT_134,*,4,CH	FEATURE CODE - 134	59616000
MPUNIT_134,*,8,CH	UNIT TYPE - 134	59652000
SKIP,8	RESERVED	59688000
MPVOLENT_135,*,32	VOLUME ENTRY - 135	59724000

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MPVOLSER 135,=,6,CH	VOLUME SERIAL - 135	59760000
MPRACK_135,*,6,CH	RACK NUMBER - 135	59796000
MPFEAT_135,*,4,CH	FEATURE CODE - 135	59832000
MPUNIT_135,*,8,CH	UNIT TYPE - 135	59868000
SKIP,8	RESERVED	59904000
MPVOLENT_136,*,32	VOLUME ENTRY - 136	59940000
MPVOLSER 136,=,6,CH	VOLUME SERIAL - 136	59976000
MPRACK_136,*,6,CH	RACK NUMBER - 136	60012000
MPFEAT_136,*,4,CH	FEATURE CODE - 136	60048000
MPUNIT_136,*,8,CH	UNIT TYPE - 136	60084000
SKIP,8	RESERVED	60120000
MPVOLENT_137,*,32	VOLUME ENTRY - 137	60156000
MPVOLSER 137,=,6,CH	VOLUME SERIAL - 137	60192000
MPRACK_137,*,6,CH	RACK NUMBER - 137	60228000
MPFEAT_137,*,4,CH	FEATURE CODE - 137	60264000
MPUNIT_137,*,8,CH	UNIT TYPE - 137	60300000
SKIP,8	RESERVED	60336000
MPVOLENT_138,*,32	VOLUME ENTRY - 138	60372000
MPVOLSER 138,=,6,CH	VOLUME SERIAL - 138	60408000
MPRACK_138,*,6,CH	RACK NUMBER - 138	60444000
MPFEAT_138,*,4,CH	FEATURE CODE - 138	60480000
MPUNIT_138,*,8,CH	UNIT TYPE - 138	60516000
SKIP,8	RESERVED	60552000
MPVOLENT_139,*,32	VOLUME ENTRY - 139	60588000
MPVOLSER 139,=,6,CH	VOLUME SERIAL - 139	60624000
MPRACK_139,*,6,CH	RACK NUMBER - 139	60660000
MPFEAT_139,*,4,CH	FEATURE CODE - 139	60696000
MPUNIT_139,*,8,CH	UNIT TYPE - 139	60732000
SKIP,8	RESERVED	60768000
MPVOLENT_140,*,32	VOLUME ENTRY - 140	60804000
MPVOLSER 140,=,6,CH	VOLUME SERIAL - 140	60840000
MPRACK_140,*,6,CH	RACK NUMBER - 140	60876000
MPFEAT_140,*,4,CH	FEATURE CODE - 140	60912000
MPUNIT_140,*,8,CH	UNIT TYPE - 140	60948000
SKIP,8	RESERVED	60984000
MPVOLENT_141,*,32	VOLUME ENTRY - 141	61020000
MPVOLSER 141,=,6,CH	VOLUME SERIAL - 141	61056000
MPRACK_141,*,6,CH	RACK NUMBER - 141	61092000
MPFEAT_141,*,4,CH	FEATURE CODE - 141	61128000
MPUNIT_141,*,8,CH	UNIT TYPE - 141	61164000
SKIP,8	RESERVED	61200000
MPVOLENT_142,*,32	VOLUME ENTRY - 142	61236000
MPVOLSER 142,=,6,CH	VOLUME SERIAL - 142	61272000
MPRACK_142,*,6,CH	RACK NUMBER - 142	61308000
MPFEAT_142,*,4,CH	FEATURE CODE - 142	61344000
MPUNIT_142,*,8,CH	UNIT TYPE - 142	61380000
SKIP,8	RESERVED	61416000
MPVOLENT_143,*,32	VOLUME ENTRY - 143	61452000
MPVOLSER 143,=,6,CH	VOLUME SERIAL - 143	61488000
MPRACK_143,*,6,CH	RACK NUMBER - 143	61524000
MPFEAT_143,*,4,CH	FEATURE CODE - 143	61560000
MPUNIT_143,*,8,CH	UNIT TYPE - 143	61596000
SKIP,8	RESERVED	61632000
MPVOLENT_144,*,32	VOLUME ENTRY - 144	61668000
MPVOLSER 144,=,6,CH	VOLUME SERIAL - 144	61704000
MPRACK_144,*,6,CH	RACK NUMBER - 144	61740000
MPFEAT_144,*,4,CH	FEATURE CODE - 144	61776000
MPUNIT_144,*,8,CH	UNIT TYPE - 144	61812000
SKIP,8	RESERVED	61848000
MPVOLENT_145,*,32	VOLUME ENTRY - 145	61884000
MPVOLSER 145,=,6,CH	VOLUME SERIAL - 145	61920000
MPRACK_145,*,6,CH	RACK NUMBER - 145	61956000
MPFEAT_145,*,4,CH	FEATURE CODE - 145	61992000
MPUNIT_145,*,8,CH	UNIT TYPE - 145	62028000
SKIP,8	RESERVED	62064000
MPVOLENT_146,*,32	VOLUME ENTRY - 146	62100000
MPVOLSER 146,=,6,CH	VOLUME SERIAL - 146	62136000

MPRACK_146,* ,6,CH	RACK NUMBER - 146	62172000
MPFEAT_146,* ,4,CH	FEATURE CODE - 146	62208000
MPUNIT_146,* ,8,CH	UNIT TYPE - 146	62244000
SKIP,8	RESERVED	62280000
MPVOLENT_147,* ,32	VOLUME ENTRY - 147	62316000
MPVOLSER_147,=,6,CH	VOLUME SERIAL - 147	62352000
MPRACK_147,* ,6,CH	RACK NUMBER - 147	62388000
MPFEAT_147,* ,4,CH	FEATURE CODE - 147	62424000
MPUNIT_147,* ,8,CH	UNIT TYPE - 147	62460000
SKIP,8	RESERVED	62496000
MPVOLENT_148,* ,32	VOLUME ENTRY - 148	62532000
MPVOLSER_148,=,6,CH	VOLUME SERIAL - 148	62568000
MPRACK_148,* ,6,CH	RACK NUMBER - 148	62604000
MPFEAT_148,* ,4,CH	FEATURE CODE - 148	62640000
MPUNIT_148,* ,8,CH	UNIT TYPE - 148	62676000
SKIP,8	RESERVED	62712000
MPVOLENT_149,* ,32	VOLUME ENTRY - 149	62748000
MPVOLSER_149,=,6,CH	VOLUME SERIAL - 149	62784000
MPRACK_149,* ,6,CH	RACK NUMBER - 149	62820000
MPFEAT_149,* ,4,CH	FEATURE CODE - 149	62856000
MPUNIT_149,* ,8,CH	UNIT TYPE - 149	62892000
SKIP,8	RESERVED	62928000
MPVOLENT_150,* ,32	VOLUME ENTRY - 150	62964000
MPVOLSER_150,=,6,CH	VOLUME SERIAL - 150	63000000
MPRACK_150,* ,6,CH	RACK NUMBER - 150	63036000
MPFEAT_150,* ,4,CH	FEATURE CODE - 150	63072000
MPUNIT_150,* ,8,CH	UNIT TYPE - 150	63108000
SKIP,8	RESERVED	63144000
MPVOLENT_151,* ,32	VOLUME ENTRY - 151	63180000
MPVOLSER_151,=,6,CH	VOLUME SERIAL - 151	63216000
MPRACK_151,* ,6,CH	RACK NUMBER - 151	63252000
MPFEAT_151,* ,4,CH	FEATURE CODE - 151	63288000
MPUNIT_151,* ,8,CH	UNIT TYPE - 151	63324000
SKIP,8	RESERVED	63360000
MPVOLENT_152,* ,32	VOLUME ENTRY - 152	63396000
MPVOLSER_152,=,6,CH	VOLUME SERIAL - 152	63432000
MPRACK_152,* ,6,CH	RACK NUMBER - 152	63468000
MPFEAT_152,* ,4,CH	FEATURE CODE - 152	63504000
MPUNIT_152,* ,8,CH	UNIT TYPE - 152	63540000
SKIP,8	RESERVED	63576000
MPVOLENT_153,* ,32	VOLUME ENTRY - 153	63612000
MPVOLSER_153,=,6,CH	VOLUME SERIAL - 153	63648000
MPRACK_153,* ,6,CH	RACK NUMBER - 153	63684000
MPFEAT_153,* ,4,CH	FEATURE CODE - 153	63720000
MPUNIT_153,* ,8,CH	UNIT TYPE - 153	63756000
SKIP,8	RESERVED	63792000
MPVOLENT_154,* ,32	VOLUME ENTRY - 154	63828000
MPVOLSER_154,=,6,CH	VOLUME SERIAL - 154	63864000
MPRACK_154,* ,6,CH	RACK NUMBER - 154	63900000
MPFEAT_154,* ,4,CH	FEATURE CODE - 154	63936000
MPUNIT_154,* ,8,CH	UNIT TYPE - 154	63972000
SKIP,8	RESERVED	64008000
MPVOLENT_155,* ,32	VOLUME ENTRY - 155	64044000
MPVOLSER_155,=,6,CH	VOLUME SERIAL - 155	64080000
MPRACK_155,* ,6,CH	RACK NUMBER - 155	64116000
MPFEAT_155,* ,4,CH	FEATURE CODE - 155	64152000
MPUNIT_155,* ,8,CH	UNIT TYPE - 155	64188000
SKIP,8	RESERVED	64224000
MPVOLENT_156,* ,32	VOLUME ENTRY - 156	64260000
MPVOLSER_156,=,6,CH	VOLUME SERIAL - 156	64296000
MPRACK_156,* ,6,CH	RACK NUMBER - 156	64332000
MPFEAT_156,* ,4,CH	FEATURE CODE - 156	64368000
MPUNIT_156,* ,8,CH	UNIT TYPE - 156	64404000
SKIP,8	RESERVED	64440000
MPVOLENT_157,* ,32	VOLUME ENTRY - 157	64476000
MPVOLSER_157,=,6,CH	VOLUME SERIAL - 157	64512000
MPRACK_157,* ,6,CH	RACK NUMBER - 157	64548000

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MPFEAT_157,* ,4,CH	FEATURE CODE - 157	64584000
MPUNIT_157,* ,8,CH	UNIT TYPE - 157	64620000
SKIP,8	RESERVED	64656000
MPVOLUME_158,* ,32	VOLUME ENTRY - 158	64692000
MPVOLSER_158,=,6,CH	VOLUME SERIAL - 158	64728000
MPRACK_158,* ,6,CH	RACK NUMBER - 158	64764000
MPFEAT_158,* ,4,CH	FEATURE CODE - 158	64800000
MPUNIT_158,* ,8,CH	UNIT TYPE - 158	64836000
SKIP,8	RESERVED	64872000
MPVOLUME_159,* ,32	VOLUME ENTRY - 159	64908000
MPVOLSER_159,=,6,CH	VOLUME SERIAL - 159	64944000
MPRACK_159,* ,6,CH	RACK NUMBER - 159	64980000
MPFEAT_159,* ,4,CH	FEATURE CODE - 159	65016000
MPUNIT_159,* ,8,CH	UNIT TYPE - 159	65052000
SKIP,8	RESERVED	65088000
MPVOLUME_160,* ,32	VOLUME ENTRY - 160	65124000
MPVOLSER_160,=,6,CH	VOLUME SERIAL - 160	65160000
MPRACK_160,* ,6,CH	RACK NUMBER - 160	65196000
MPFEAT_160,* ,4,CH	FEATURE CODE - 160	65232000
MPUNIT_160,* ,8,CH	UNIT TYPE - 160	65268000
SKIP,8	RESERVED	65304000
MPVOLUME_161,* ,32	VOLUME ENTRY - 161	65340000
MPVOLSER_161,=,6,CH	VOLUME SERIAL - 161	65376000
MPRACK_161,* ,6,CH	RACK NUMBER - 161	65412000
MPFEAT_161,* ,4,CH	FEATURE CODE - 161	65448000
MPUNIT_161,* ,8,CH	UNIT TYPE - 161	65484000
SKIP,8	RESERVED	65520000
MPVOLUME_162,* ,32	VOLUME ENTRY - 162	65556000
MPVOLSER_162,=,6,CH	VOLUME SERIAL - 162	65592000
MPRACK_162,* ,6,CH	RACK NUMBER - 162	65628000
MPFEAT_162,* ,4,CH	FEATURE CODE - 162	65664000
MPUNIT_162,* ,8,CH	UNIT TYPE - 162	65700000
SKIP,8	RESERVED	65736000
MPVOLUME_163,* ,32	VOLUME ENTRY - 163	65772000
MPVOLSER_163,=,6,CH	VOLUME SERIAL - 163	65808000
MPRACK_163,* ,6,CH	RACK NUMBER - 163	65844000
MPFEAT_163,* ,4,CH	FEATURE CODE - 163	65880000
MPUNIT_163,* ,8,CH	UNIT TYPE - 163	65916000
SKIP,8	RESERVED	65952000
MPVOLUME_164,* ,32	VOLUME ENTRY - 164	65988000
MPVOLSER_164,=,6,CH	VOLUME SERIAL - 164	66024000
MPRACK_164,* ,6,CH	RACK NUMBER - 164	66060000
MPFEAT_164,* ,4,CH	FEATURE CODE - 164	66096000
MPUNIT_164,* ,8,CH	UNIT TYPE - 164	66132000
SKIP,8	RESERVED	66168000
MPVOLUME_165,* ,32	VOLUME ENTRY - 165	66204000
MPVOLSER_165,=,6,CH	VOLUME SERIAL - 165	66240000
MPRACK_165,* ,6,CH	RACK NUMBER - 165	66276000
MPFEAT_165,* ,4,CH	FEATURE CODE - 165	66312000
MPUNIT_165,* ,8,CH	UNIT TYPE - 165	66348000
SKIP,8	RESERVED	66384000
MPVOLUME_166,* ,32	VOLUME ENTRY - 166	66420000
MPVOLSER_166,=,6,CH	VOLUME SERIAL - 166	66456000
MPRACK_166,* ,6,CH	RACK NUMBER - 166	66492000
MPFEAT_166,* ,4,CH	FEATURE CODE - 166	66528000
MPUNIT_166,* ,8,CH	UNIT TYPE - 166	66564000
SKIP,8	RESERVED	66600000
MPVOLUME_167,* ,32	VOLUME ENTRY - 167	66636000
MPVOLSER_167,=,6,CH	VOLUME SERIAL - 167	66672000
MPRACK_167,* ,6,CH	RACK NUMBER - 167	66708000
MPFEAT_167,* ,4,CH	FEATURE CODE - 167	66744000
MPUNIT_167,* ,8,CH	UNIT TYPE - 167	66780000
SKIP,8	RESERVED	66816000
MPVOLUME_168,* ,32	VOLUME ENTRY - 168	66852000
MPVOLSER_168,=,6,CH	VOLUME SERIAL - 168	66888000
MPRACK_168,* ,6,CH	RACK NUMBER - 168	66924000
MPFEAT_168,* ,4,CH	FEATURE CODE - 168	66960000

MPUNIT_168,* ,8,CH	UNIT TYPE - 168	66996000
SKIP,8	RESERVED	67032000
MPVOLENT_169,* ,32	VOLUME ENTRY - 169	67068000
MPVOLSER_169,=,6,CH	VOLUME SERIAL - 169	67104000
MPRACK_169,* ,6,CH	RACK NUMBER - 169	67140000
MPFEAT_169,* ,4,CH	FEATURE CODE - 169	67176000
MPUNIT_169,* ,8,CH	UNIT TYPE - 169	67212000
SKIP,8	RESERVED	67248000
MPVOLENT_170,* ,32	VOLUME ENTRY - 170	67284000
MPVOLSER_170,=,6,CH	VOLUME SERIAL - 170	67320000
MPRACK_170,* ,6,CH	RACK NUMBER - 170	67356000
MPFEAT_170,* ,4,CH	FEATURE CODE - 170	67392000
MPUNIT_170,* ,8,CH	UNIT TYPE - 170	67428000
SKIP,8	RESERVED	67464000
MPVOLENT_171,* ,32	VOLUME ENTRY - 171	67500000
MPVOLSER_171,=,6,CH	VOLUME SERIAL - 171	67536000
MPRACK_171,* ,6,CH	RACK NUMBER - 171	67572000
MPFEAT_171,* ,4,CH	FEATURE CODE - 171	67608000
MPUNIT_171,* ,8,CH	UNIT TYPE - 171	67644000
SKIP,8	RESERVED	67680000
MPVOLENT_172,* ,32	VOLUME ENTRY - 172	67716000
MPVOLSER_172,=,6,CH	VOLUME SERIAL - 172	67752000
MPRACK_172,* ,6,CH	RACK NUMBER - 172	67788000
MPFEAT_172,* ,4,CH	FEATURE CODE - 172	67824000
MPUNIT_172,* ,8,CH	UNIT TYPE - 172	67860000
SKIP,8	RESERVED	67896000
MPVOLENT_173,* ,32	VOLUME ENTRY - 173	67932000
MPVOLSER_173,=,6,CH	VOLUME SERIAL - 173	67968000
MPRACK_173,* ,6,CH	RACK NUMBER - 173	68004000
MPFEAT_173,* ,4,CH	FEATURE CODE - 173	68040000
MPUNIT_173,* ,8,CH	UNIT TYPE - 173	68076000
SKIP,8	RESERVED	68112000
MPVOLENT_174,* ,32	VOLUME ENTRY - 174	68148000
MPVOLSER_174,=,6,CH	VOLUME SERIAL - 174	68184000
MPRACK_174,* ,6,CH	RACK NUMBER - 174	68220000
MPFEAT_174,* ,4,CH	FEATURE CODE - 174	68256000
MPUNIT_174,* ,8,CH	UNIT TYPE - 174	68292000
SKIP,8	RESERVED	68328000
MPVOLENT_175,* ,32	VOLUME ENTRY - 175	68364000
MPVOLSER_175,=,6,CH	VOLUME SERIAL - 175	68400000
MPRACK_175,* ,6,CH	RACK NUMBER - 175	68436000
MPFEAT_175,* ,4,CH	FEATURE CODE - 175	68472000
MPUNIT_175,* ,8,CH	UNIT TYPE - 175	68508000
SKIP,8	RESERVED	68544000
MPVOLENT_176,* ,32	VOLUME ENTRY - 176	68580000
MPVOLSER_176,=,6,CH	VOLUME SERIAL - 176	68616000
MPRACK_176,* ,6,CH	RACK NUMBER - 176	68652000
MPFEAT_176,* ,4,CH	FEATURE CODE - 176	68688000
MPUNIT_176,* ,8,CH	UNIT TYPE - 176	68724000
SKIP,8	RESERVED	68760000
MPVOLENT_177,* ,32	VOLUME ENTRY - 177	68796000
MPVOLSER_177,=,6,CH	VOLUME SERIAL - 177	68832000
MPRACK_177,* ,6,CH	RACK NUMBER - 177	68868000
MPFEAT_177,* ,4,CH	FEATURE CODE - 177	68904000
MPUNIT_177,* ,8,CH	UNIT TYPE - 177	68940000
SKIP,8	RESERVED	68976000
MPVOLENT_178,* ,32	VOLUME ENTRY - 178	69012000
MPVOLSER_178,=,6,CH	VOLUME SERIAL - 178	69048000
MPRACK_178,* ,6,CH	RACK NUMBER - 178	69084000
MPFEAT_178,* ,4,CH	FEATURE CODE - 178	69120000
MPUNIT_178,* ,8,CH	UNIT TYPE - 178	69156000
SKIP,8	RESERVED	69192000
MPVOLENT_179,* ,32	VOLUME ENTRY - 179	69228000
MPVOLSER_179,=,6,CH	VOLUME SERIAL - 179	69264000
MPRACK_179,* ,6,CH	RACK NUMBER - 179	69300000
MPFEAT_179,* ,4,CH	FEATURE CODE - 179	69336000
MPUNIT_179,* ,8,CH	UNIT TYPE - 179	69372000

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SKIP,8	RESERVED	69408000
MPVOLENT_180,*,32	VOLUME ENTRY - 180	69444000
MPVOLSER_180,=,6,CH	VOLUME SERIAL - 180	69480000
MPRACK_180,*,6,CH	RACK NUMBER - 180	69516000
MPFEAT_180,*,4,CH	FEATURE CODE - 180	69552000
MPUNIT_180,*,8,CH	UNIT TYPE - 180	69588000
SKIP,8	RESERVED	69624000
MPVOLENT_181,*,32	VOLUME ENTRY - 181	69660000
MPVOLSER_181,=,6,CH	VOLUME SERIAL - 181	69696000
MPRACK_181,*,6,CH	RACK NUMBER - 181	69732000
MPFEAT_181,*,4,CH	FEATURE CODE - 181	69768000
MPUNIT_181,*,8,CH	UNIT TYPE - 181	69804000
SKIP,8	RESERVED	69840000
MPVOLENT_182,*,32	VOLUME ENTRY - 182	69876000
MPVOLSER_182,=,6,CH	VOLUME SERIAL - 182	69912000
MPRACK_182,*,6,CH	RACK NUMBER - 182	69948000
MPFEAT_182,*,4,CH	FEATURE CODE - 182	69984000
MPUNIT_182,*,8,CH	UNIT TYPE - 182	70020000
SKIP,8	RESERVED	70056000
MPVOLENT_183,*,32	VOLUME ENTRY - 183	70092000
MPVOLSER_183,=,6,CH	VOLUME SERIAL - 183	70128000
MPRACK_183,*,6,CH	RACK NUMBER - 183	70164000
MPFEAT_183,*,4,CH	FEATURE CODE - 183	70200000
MPUNIT_183,*,8,CH	UNIT TYPE - 183	70236000
SKIP,8	RESERVED	70272000
MPVOLENT_184,*,32	VOLUME ENTRY - 184	70308000
MPVOLSER_184,=,6,CH	VOLUME SERIAL - 184	70344000
MPRACK_184,*,6,CH	RACK NUMBER - 184	70380000
MPFEAT_184,*,4,CH	FEATURE CODE - 184	70416000
MPUNIT_184,*,8,CH	UNIT TYPE - 184	70452000
SKIP,8	RESERVED	70488000
MPVOLENT_185,*,32	VOLUME ENTRY - 185	70524000
MPVOLSER_185,=,6,CH	VOLUME SERIAL - 185	70560000
MPRACK_185,*,6,CH	RACK NUMBER - 185	70596000
MPFEAT_185,*,4,CH	FEATURE CODE - 185	70632000
MPUNIT_185,*,8,CH	UNIT TYPE - 185	70668000
SKIP,8	RESERVED	70704000
MPVOLENT_186,*,32	VOLUME ENTRY - 186	70740000
MPVOLSER_186,=,6,CH	VOLUME SERIAL - 186	70776000
MPRACK_186,*,6,CH	RACK NUMBER - 186	70812000
MPFEAT_186,*,4,CH	FEATURE CODE - 186	70848000
MPUNIT_186,*,8,CH	UNIT TYPE - 186	70884000
SKIP,8	RESERVED	70920000
MPVOLENT_187,*,32	VOLUME ENTRY - 187	70956000
MPVOLSER_187,=,6,CH	VOLUME SERIAL - 187	70992000
MPRACK_187,*,6,CH	RACK NUMBER - 187	71028000
MPFEAT_187,*,4,CH	FEATURE CODE - 187	71064000
MPUNIT_187,*,8,CH	UNIT TYPE - 187	71100000
SKIP,8	RESERVED	71136000
MPVOLENT_188,*,32	VOLUME ENTRY - 188	71172000
MPVOLSER_188,=,6,CH	VOLUME SERIAL - 188	71208000
MPRACK_188,*,6,CH	RACK NUMBER - 188	71244000
MPFEAT_188,*,4,CH	FEATURE CODE - 188	71280000
MPUNIT_188,*,8,CH	UNIT TYPE - 188	71316000
SKIP,8	RESERVED	71352000
MPVOLENT_189,*,32	VOLUME ENTRY - 189	71388000
MPVOLSER_189,=,6,CH	VOLUME SERIAL - 189	71424000
MPRACK_189,*,6,CH	RACK NUMBER - 189	71460000
MPFEAT_189,*,4,CH	FEATURE CODE - 189	71496000
MPUNIT_189,*,8,CH	UNIT TYPE - 189	71532000
SKIP,8	RESERVED	71568000
MPVOLENT_190,*,32	VOLUME ENTRY - 190	71604000
MPVOLSER_190,=,6,CH	VOLUME SERIAL - 190	71640000
MPRACK_190,*,6,CH	RACK NUMBER - 190	71676000
MPFEAT_190,*,4,CH	FEATURE CODE - 190	71712000
MPUNIT_190,*,8,CH	UNIT TYPE - 190	71748000
SKIP,8	RESERVED	71784000



MPVOLENT_191,*,32	VOLUME ENTRY - 191	71820000
MPVOLSÉR_191,=,6,CH	VOLUME SERIAL - 191	71856000
MPRACK_191,*,6,CH	RACK NUMBER - 191	71892000
MPFEAT_191,*,4,CH	FEATURE CODE - 191	71928000
MPUNIT_191,*,8,CH	UNIT TYPE - 191	71964000
SKIP,8	RESERVED	72000000
MPVOLENT_192,*,32	VOLUME ENTRY - 192	72036000
MPVOLSÉR_192,=,6,CH	VOLUME SERIAL - 192	72072000
MPRACK_192,*,6,CH	RACK NUMBER - 192	72108000
MPFEAT_192,*,4,CH	FEATURE CODE - 192	72144000
MPUNIT_192,*,8,CH	UNIT TYPE - 192	72180000
SKIP,8	RESERVED	72216000
MPVOLENT_193,*,32	VOLUME ENTRY - 193	72252000
MPVOLSÉR_193,=,6,CH	VOLUME SERIAL - 193	72288000
MPRACK_193,*,6,CH	RACK NUMBER - 193	72324000
MPFEAT_193,*,4,CH	FEATURE CODE - 193	72360000
MPUNIT_193,*,8,CH	UNIT TYPE - 193	72396000
SKIP,8	RESERVED	72432000
MPVOLENT_194,*,32	VOLUME ENTRY - 194	72468000
MPVOLSÉR_194,=,6,CH	VOLUME SERIAL - 194	72504000
MPRACK_194,*,6,CH	RACK NUMBER - 194	72540000
MPFEAT_194,*,4,CH	FEATURE CODE - 194	72576000
MPUNIT_194,*,8,CH	UNIT TYPE - 194	72612000
SKIP,8	RESERVED	72648000
MPVOLENT_195,*,32	VOLUME ENTRY - 195	72684000
MPVOLSÉR_195,=,6,CH	VOLUME SERIAL - 195	72720000
MPRACK_195,*,6,CH	RACK NUMBER - 195	72756000
MPFEAT_195,*,4,CH	FEATURE CODE - 195	72792000
MPUNIT_195,*,8,CH	UNIT TYPE - 195	72828000
SKIP,8	RESERVED	72864000
MPVOLENT_196,*,32	VOLUME ENTRY - 196	72900000
MPVOLSÉR_196,=,6,CH	VOLUME SERIAL - 196	72936000
MPRACK_196,*,6,CH	RACK NUMBER - 196	72972000
MPFEAT_196,*,4,CH	FEATURE CODE - 196	73008000
MPUNIT_196,*,8,CH	UNIT TYPE - 196	73044000
SKIP,8	RESERVED	73080000
MPVOLENT_197,*,32	VOLUME ENTRY - 197	73116000
MPVOLSÉR_197,=,6,CH	VOLUME SERIAL - 197	73152000
MPRACK_197,*,6,CH	RACK NUMBER - 197	73188000
MPFEAT_197,*,4,CH	FEATURE CODE - 197	73224000
MPUNIT_197,*,8,CH	UNIT TYPE - 197	73260000
SKIP,8	RESERVED	73296000
MPVOLENT_198,*,32	VOLUME ENTRY - 198	73332000
MPVOLSÉR_198,=,6,CH	VOLUME SERIAL - 198	73368000
MPRACK_198,*,6,CH	RACK NUMBER - 198	73404000
MPFEAT_198,*,4,CH	FEATURE CODE - 198	73440000
MPUNIT_198,*,8,CH	UNIT TYPE - 198	73476000
SKIP,8	RESERVED	73512000
MPVOLENT_199,*,32	VOLUME ENTRY - 199	73548000
MPVOLSÉR_199,=,6,CH	VOLUME SERIAL - 199	73584000
MPRACK_199,*,6,CH	RACK NUMBER - 199	73620000
MPFEAT_199,*,4,CH	FEATURE CODE - 199	73656000
MPUNIT_199,*,8,CH	UNIT TYPE - 199	73692000
SKIP,8	RESERVED	73728000
MPVOLENT_200,*,32	VOLUME ENTRY - 200	73764000
MPVOLSÉR_200,=,6,CH	VOLUME SERIAL - 200	73800000
MPRACK_200,*,6,CH	RACK NUMBER - 200	73836000
MPFEAT_200,*,4,CH	FEATURE CODE - 200	73872000
MPUNIT_200,*,8,CH	UNIT TYPE - 200	73908000
SKIP,8	RESERVED	73944000
MPVOLENT_201,*,32	VOLUME ENTRY - 201	73980000
MPVOLSÉR_201,=,6,CH	VOLUME SERIAL - 201	74016000
MPRACK_201,*,6,CH	RACK NUMBER - 201	74052000
MPFEAT_201,*,4,CH	FEATURE CODE - 201	74088000
MPUNIT_201,*,8,CH	UNIT TYPE - 201	74124000
SKIP,8	RESERVED	74160000
MPVOLENT_202,*,32	VOLUME ENTRY - 202	74196000

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MPVOLSER_202,=,6,CH	VOLUME SERIAL - 202	74232000
MPRACK_202,*,6,CH	RACK NUMBER - 202	74268000
MPFEAT_202,*,4,CH	FEATURE CODE - 202	74304000
MPUNIT_202,*,8,CH	UNIT TYPE - 202	74340000
SKIP,8	RESERVED	74376000
MPVOLENT_203,*,32	VOLUME ENTRY - 203	74412000
MPVOLSER_203,=,6,CH	VOLUME SERIAL - 203	74448000
MPRACK_203,*,6,CH	RACK NUMBER - 203	74484000
MPFEAT_203,*,4,CH	FEATURE CODE - 203	74520000
MPUNIT_203,*,8,CH	UNIT TYPE - 203	74556000
SKIP,8	RESERVED	74592000
MPVOLENT_204,*,32	VOLUME ENTRY - 204	74628000
MPVOLSER_204,=,6,CH	VOLUME SERIAL - 204	74664000
MPRACK_204,*,6,CH	RACK NUMBER - 204	74700000
MPFEAT_204,*,4,CH	FEATURE CODE - 204	74736000
MPUNIT_204,*,8,CH	UNIT TYPE - 204	74772000
SKIP,8	RESERVED	74808000
MPVOLENT_205,*,32	VOLUME ENTRY - 205	74844000
MPVOLSER_205,=,6,CH	VOLUME SERIAL - 205	74880000
MPRACK_205,*,6,CH	RACK NUMBER - 205	74916000
MPFEAT_205,*,4,CH	FEATURE CODE - 205	74952000
MPUNIT_205,*,8,CH	UNIT TYPE - 205	74988000
SKIP,8	RESERVED	75024000
MPVOLENT_206,*,32	VOLUME ENTRY - 206	75060000
MPVOLSER_206,=,6,CH	VOLUME SERIAL - 206	75096000
MPRACK_206,*,6,CH	RACK NUMBER - 206	75132000
MPFEAT_206,*,4,CH	FEATURE CODE - 206	75168000
MPUNIT_206,*,8,CH	UNIT TYPE - 206	75204000
SKIP,8	RESERVED	75240000
MPVOLENT_207,*,32	VOLUME ENTRY - 207	75276000
MPVOLSER_207,=,6,CH	VOLUME SERIAL - 207	75312000
MPRACK_207,*,6,CH	RACK NUMBER - 207	75348000
MPFEAT_207,*,4,CH	FEATURE CODE - 207	75384000
MPUNIT_207,*,8,CH	UNIT TYPE - 207	75420000
SKIP,8	RESERVED	75456000
MPVOLENT_208,*,32	VOLUME ENTRY - 208	75492000
MPVOLSER_208,=,6,CH	VOLUME SERIAL - 208	75528000
MPRACK_208,*,6,CH	RACK NUMBER - 208	75564000
MPFEAT_208,*,4,CH	FEATURE CODE - 208	75600000
MPUNIT_208,*,8,CH	UNIT TYPE - 208	75636000
SKIP,8	RESERVED	75672000
MPVOLENT_209,*,32	VOLUME ENTRY - 209	75708000
MPVOLSER_209,=,6,CH	VOLUME SERIAL - 209	75744000
MPRACK_209,*,6,CH	RACK NUMBER - 209	75780000
MPFEAT_209,*,4,CH	FEATURE CODE - 209	75816000
MPUNIT_209,*,8,CH	UNIT TYPE - 209	75852000
SKIP,8	RESERVED	75888000
MPVOLENT_210,*,32	VOLUME ENTRY - 210	75924000
MPVOLSER_210,=,6,CH	VOLUME SERIAL - 210	75960000
MPRACK_210,*,6,CH	RACK NUMBER - 210	75996000
MPFEAT_210,*,4,CH	FEATURE CODE - 210	76032000
MPUNIT_210,*,8,CH	UNIT TYPE - 210	76068000
SKIP,8	RESERVED	76104000
MPVOLENT_211,*,32	VOLUME ENTRY - 211	76140000
MPVOLSER_211,=,6,CH	VOLUME SERIAL - 211	76176000
MPRACK_211,*,6,CH	RACK NUMBER - 211	76212000
MPFEAT_211,*,4,CH	FEATURE CODE - 211	76248000
MPUNIT_211,*,8,CH	UNIT TYPE - 211	76284000
SKIP,8	RESERVED	76320000
MPVOLENT_212,*,32	VOLUME ENTRY - 212	76356000
MPVOLSER_212,=,6,CH	VOLUME SERIAL - 212	76392000
MPRACK_212,*,6,CH	RACK NUMBER - 212	76428000
MPFEAT_212,*,4,CH	FEATURE CODE - 212	76464000
MPUNIT_212,*,8,CH	UNIT TYPE - 212	76500000
SKIP,8	RESERVED	76536000
MPVOLENT_213,*,32	VOLUME ENTRY - 213	76572000
MPVOLSER_213,=,6,CH	VOLUME SERIAL - 213	76608000



MPRACK_213,*,6,CH	RACK NUMBER - 213	76644000
MPFEAT_213,*,4,CH	FEATURE CODE - 213	76680000
MPUNIT_213,*,8,CH	UNIT TYPE - 213	76716000
SKIP,8	RESERVED	76752000
MPVOLENT_214,*,32	VOLUME ENTRY - 214	76788000
MPVOLSER_214,=,6,CH	VOLUME SERIAL - 214	76824000
MPRACK_214,*,6,CH	RACK NUMBER - 214	76860000
MPFEAT_214,*,4,CH	FEATURE CODE - 214	76896000
MPUNIT_214,*,8,CH	UNIT TYPE - 214	76932000
SKIP,8	RESERVED	76968000
MPVOLENT_215,*,32	VOLUME ENTRY - 215	77004000
MPVOLSER_215,=,6,CH	VOLUME SERIAL - 215	77040000
MPRACK_215,*,6,CH	RACK NUMBER - 215	77076000
MPFEAT_215,*,4,CH	FEATURE CODE - 215	77112000
MPUNIT_215,*,8,CH	UNIT TYPE - 215	77148000
SKIP,8	RESERVED	77184000
MPVOLENT_216,*,32	VOLUME ENTRY - 216	77220000
MPVOLSER_216,=,6,CH	VOLUME SERIAL - 216	77256000
MPRACK_216,*,6,CH	RACK NUMBER - 216	77292000
MPFEAT_216,*,4,CH	FEATURE CODE - 216	77328000
MPUNIT_216,*,8,CH	UNIT TYPE - 216	77364000
SKIP,8	RESERVED	77400000
MPVOLENT_217,*,32	VOLUME ENTRY - 217	77436000
MPVOLSER_217,=,6,CH	VOLUME SERIAL - 217	77472000
MPRACK_217,*,6,CH	RACK NUMBER - 217	77508000
MPFEAT_217,*,4,CH	FEATURE CODE - 217	77544000
MPUNIT_217,*,8,CH	UNIT TYPE - 217	77580000
SKIP,8	RESERVED	77616000
MPVOLENT_218,*,32	VOLUME ENTRY - 218	77652000
MPVOLSER_218,=,6,CH	VOLUME SERIAL - 218	77688000
MPRACK_218,*,6,CH	RACK NUMBER - 218	77724000
MPFEAT_218,*,4,CH	FEATURE CODE - 218	77760000
MPUNIT_218,*,8,CH	UNIT TYPE - 218	77796000
SKIP,8	RESERVED	77832000
MPVOLENT_219,*,32	VOLUME ENTRY - 219	77868000
MPVOLSER_219,=,6,CH	VOLUME SERIAL - 219	77904000
MPRACK_219,*,6,CH	RACK NUMBER - 219	77940000
MPFEAT_219,*,4,CH	FEATURE CODE - 219	77976000
MPUNIT_219,*,8,CH	UNIT TYPE - 219	78012000
SKIP,8	RESERVED	78048000
MPVOLENT_220,*,32	VOLUME ENTRY - 220	78084000
MPVOLSER_220,=,6,CH	VOLUME SERIAL - 220	78120000
MPRACK_220,*,6,CH	RACK NUMBER - 220	78156000
MPFEAT_220,*,4,CH	FEATURE CODE - 220	78192000
MPUNIT_220,*,8,CH	UNIT TYPE - 220	78228000
SKIP,8	RESERVED	78264000
MPVOLENT_221,*,32	VOLUME ENTRY - 221	78300000
MPVOLSER_221,=,6,CH	VOLUME SERIAL - 221	78336000
MPRACK_221,*,6,CH	RACK NUMBER - 221	78372000
MPFEAT_221,*,4,CH	FEATURE CODE - 221	78408000
MPUNIT_221,*,8,CH	UNIT TYPE - 221	78444000
SKIP,8	RESERVED	78480000
MPVOLENT_222,*,32	VOLUME ENTRY - 222	78516000
MPVOLSER_222,=,6,CH	VOLUME SERIAL - 222	78552000
MPRACK_222,*,6,CH	RACK NUMBER - 222	78588000
MPFEAT_222,*,4,CH	FEATURE CODE - 222	78624000
MPUNIT_222,*,8,CH	UNIT TYPE - 222	78660000
SKIP,8	RESERVED	78696000
MPVOLENT_223,*,32	VOLUME ENTRY - 223	78732000
MPVOLSER_223,=,6,CH	VOLUME SERIAL - 223	78768000
MPRACK_223,*,6,CH	RACK NUMBER - 223	78804000
MPFEAT_223,*,4,CH	FEATURE CODE - 223	78840000
MPUNIT_223,*,8,CH	UNIT TYPE - 223	78876000
SKIP,8	RESERVED	78912000
MPVOLENT_224,*,32	VOLUME ENTRY - 224	78948000
MPVOLSER_224,=,6,CH	VOLUME SERIAL - 224	78984000
MPRACK_224,*,6,CH	RACK NUMBER - 224	79020000

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MPFEAT_224,* ,4,CH	FEATURE CODE - 224	79056000
MPUNIT_224,* ,8,CH	UNIT TYPE - 224	79092000
SKIP,8	RESERVED	79128000
MPVOLENT_225,* ,32	VOLUME ENTRY - 225	79164000
MPVOLSER_225,=,6,CH	VOLUME SERIAL - 225	79200000
MPRACK_225,* ,6,CH	RACK NUMBER - 225	79236000
MPFEAT_225,* ,4,CH	FEATURE CODE - 225	79272000
MPUNIT_225,* ,8,CH	UNIT TYPE - 225	79308000
SKIP,8	RESERVED	79344000
MPVOLENT_226,* ,32	VOLUME ENTRY - 226	79380000
MPVOLSER_226,=,6,CH	VOLUME SERIAL - 226	79416000
MPRACK_226,* ,6,CH	RACK NUMBER - 226	79452000
MPFEAT_226,* ,4,CH	FEATURE CODE - 226	79488000
MPUNIT_226,* ,8,CH	UNIT TYPE - 226	79524000
SKIP,8	RESERVED	79560000
MPVOLENT_227,* ,32	VOLUME ENTRY - 227	79596000
MPVOLSER_227,=,6,CH	VOLUME SERIAL - 227	79632000
MPRACK_227,* ,6,CH	RACK NUMBER - 227	79668000
MPFEAT_227,* ,4,CH	FEATURE CODE - 227	79704000
MPUNIT_227,* ,8,CH	UNIT TYPE - 227	79740000
SKIP,8	RESERVED	79776000
MPVOLENT_228,* ,32	VOLUME ENTRY - 228	79812000
MPVOLSER_228,=,6,CH	VOLUME SERIAL - 228	79848000
MPRACK_228,* ,6,CH	RACK NUMBER - 228	79884000
MPFEAT_228,* ,4,CH	FEATURE CODE - 228	79920000
MPUNIT_228,* ,8,CH	UNIT TYPE - 228	79956000
SKIP,8	RESERVED	79992000
MPVOLENT_229,* ,32	VOLUME ENTRY - 229	80028000
MPVOLSER_229,=,6,CH	VOLUME SERIAL - 229	80064000
MPRACK_229,* ,6,CH	RACK NUMBER - 229	80100000
MPFEAT_229,* ,4,CH	FEATURE CODE - 229	80136000
MPUNIT_229,* ,8,CH	UNIT TYPE - 229	80172000
SKIP,8	RESERVED	80208000
MPVOLENT_230,* ,32	VOLUME ENTRY - 230	80244000
MPVOLSER_230,=,6,CH	VOLUME SERIAL - 230	80280000
MPRACK_230,* ,6,CH	RACK NUMBER - 230	80316000
MPFEAT_230,* ,4,CH	FEATURE CODE - 230	80352000
MPUNIT_230,* ,8,CH	UNIT TYPE - 230	80388000
SKIP,8	RESERVED	80424000
MPVOLENT_231,* ,32	VOLUME ENTRY - 231	80460000
MPVOLSER_231,=,6,CH	VOLUME SERIAL - 231	80496000
MPRACK_231,* ,6,CH	RACK NUMBER - 231	80532000
MPFEAT_231,* ,4,CH	FEATURE CODE - 231	80568000
MPUNIT_231,* ,8,CH	UNIT TYPE - 231	80604000
SKIP,8	RESERVED	80640000
MPVOLENT_232,* ,32	VOLUME ENTRY - 232	80676000
MPVOLSER_232,=,6,CH	VOLUME SERIAL - 232	80712000
MPRACK_232,* ,6,CH	RACK NUMBER - 232	80748000
MPFEAT_232,* ,4,CH	FEATURE CODE - 232	80784000
MPUNIT_232,* ,8,CH	UNIT TYPE - 232	80820000
SKIP,8	RESERVED	80856000
MPVOLENT_233,* ,32	VOLUME ENTRY - 233	80892000
MPVOLSER_233,=,6,CH	VOLUME SERIAL - 233	80928000
MPRACK_233,* ,6,CH	RACK NUMBER - 233	80964000
MPFEAT_233,* ,4,CH	FEATURE CODE - 233	81000000
MPUNIT_233,* ,8,CH	UNIT TYPE - 233	81036000
SKIP,8	RESERVED	81072000
MPVOLENT_234,* ,32	VOLUME ENTRY - 234	81108000
MPVOLSER_234,=,6,CH	VOLUME SERIAL - 234	81144000
MPRACK_234,* ,6,CH	RACK NUMBER - 234	81180000
MPFEAT_234,* ,4,CH	FEATURE CODE - 234	81216000
MPUNIT_234,* ,8,CH	UNIT TYPE - 234	81252000
SKIP,8	RESERVED	81288000
MPVOLENT_235,* ,32	VOLUME ENTRY - 235	81324000
MPVOLSER_235,=,6,CH	VOLUME SERIAL - 235	81360000
MPRACK_235,* ,6,CH	RACK NUMBER - 235	81396000
MPFEAT_235,* ,4,CH	FEATURE CODE - 235	81432000

MPUNIT_235,* ,8,CH	UNIT TYPE - 235	81468000
SKIP,8	RESERVED	81504000
MPVOLENT_236,* ,32	VOLUME ENTRY - 236	81540000
MPVOLSER_236,=,6,CH	VOLUME SERIAL - 236	81576000
MPRACK_236,* ,6,CH	RACK NUMBER - 236	81612000
MPFEAT_236,* ,4,CH	FEATURE CODE - 236	81648000
MPUNIT_236,* ,8,CH	UNIT TYPE - 236	81684000
SKIP,8	RESERVED	81720000
MPVOLENT_237,* ,32	VOLUME ENTRY - 237	81756000
MPVOLSER_237,=,6,CH	VOLUME SERIAL - 237	81792000
MPRACK_237,* ,6,CH	RACK NUMBER - 237	81828000
MPFEAT_237,* ,4,CH	FEATURE CODE - 237	81864000
MPUNIT_237,* ,8,CH	UNIT TYPE - 237	81900000
SKIP,8	RESERVED	81936000
MPVOLENT_238,* ,32	VOLUME ENTRY - 238	81972000
MPVOLSER_238,=,6,CH	VOLUME SERIAL - 238	82008000
MPRACK_238,* ,6,CH	RACK NUMBER - 238	82044000
MPFEAT_238,* ,4,CH	FEATURE CODE - 238	82080000
MPUNIT_238,* ,8,CH	UNIT TYPE - 238	82116000
SKIP,8	RESERVED	82152000
MPVOLENT_239,* ,32	VOLUME ENTRY - 239	82188000
MPVOLSER_239,=,6,CH	VOLUME SERIAL - 239	82224000
MPRACK_239,* ,6,CH	RACK NUMBER - 239	82260000
MPFEAT_239,* ,4,CH	FEATURE CODE - 239	82296000
MPUNIT_239,* ,8,CH	UNIT TYPE - 239	82332000
SKIP,8	RESERVED	82368000
MPVOLENT_240,* ,32	VOLUME ENTRY - 240	82404000
MPVOLSER_240,=,6,CH	VOLUME SERIAL - 240	82440000
MPRACK_240,* ,6,CH	RACK NUMBER - 240	82476000
MPFEAT_240,* ,4,CH	FEATURE CODE - 240	82512000
MPUNIT_240,* ,8,CH	UNIT TYPE - 240	82548000
SKIP,8	RESERVED	82584000
MPVOLENT_241,* ,32	VOLUME ENTRY - 241	82620000
MPVOLSER_241,=,6,CH	VOLUME SERIAL - 241	82656000
MPRACK_241,* ,6,CH	RACK NUMBER - 241	82692000
MPFEAT_241,* ,4,CH	FEATURE CODE - 241	82728000
MPUNIT_241,* ,8,CH	UNIT TYPE - 241	82764000
SKIP,8	RESERVED	82800000
MPVOLENT_242,* ,32	VOLUME ENTRY - 242	82836000
MPVOLSER_242,=,6,CH	VOLUME SERIAL - 242	82872000
MPRACK_242,* ,6,CH	RACK NUMBER - 242	82908000
MPFEAT_242,* ,4,CH	FEATURE CODE - 242	82944000
MPUNIT_242,* ,8,CH	UNIT TYPE - 242	82980000
SKIP,8	RESERVED	83016000
MPVOLENT_243,* ,32	VOLUME ENTRY - 243	83052000
MPVOLSER_243,=,6,CH	VOLUME SERIAL - 243	83088000
MPRACK_243,* ,6,CH	RACK NUMBER - 243	83124000
MPFEAT_243,* ,4,CH	FEATURE CODE - 243	83160000
MPUNIT_243,* ,8,CH	UNIT TYPE - 243	83196000
SKIP,8	RESERVED	83232000
MPVOLENT_244,* ,32	VOLUME ENTRY - 244	83268000
MPVOLSER_244,=,6,CH	VOLUME SERIAL - 244	83304000
MPRACK_244,* ,6,CH	RACK NUMBER - 244	83340000
MPFEAT_244,* ,4,CH	FEATURE CODE - 244	83376000
MPUNIT_244,* ,8,CH	UNIT TYPE - 244	83412000
SKIP,8	RESERVED	83448000
MPVOLENT_245,* ,32	VOLUME ENTRY - 245	83484000
MPVOLSER_245,=,6,CH	VOLUME SERIAL - 245	83520000
MPRACK_245,* ,6,CH	RACK NUMBER - 245	83556000
MPFEAT_245,* ,4,CH	FEATURE CODE - 245	83592000
MPUNIT_245,* ,8,CH	UNIT TYPE - 245	83628000
SKIP,8	RESERVED	83664000
MPVOLENT_246,* ,32	VOLUME ENTRY - 246	83700000
MPVOLSER_246,=,6,CH	VOLUME SERIAL - 246	83736000
MPRACK_246,* ,6,CH	RACK NUMBER - 246	83772000
MPFEAT_246,* ,4,CH	FEATURE CODE - 246	83808000
MPUNIT_246,* ,8,CH	UNIT TYPE - 246	83844000

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SKIP,8	RESERVED	83880000
MPVOLENT_247,*,32	VOLUME ENTRY - 247	83916000
MPVOLSER_247,=,6,CH	VOLUME SERIAL - 247	83952000
MPRACK_247,*,6,CH	RACK NUMBER - 247	83988000
MPFEAT_247,*,4,CH	FEATURE CODE - 247	84024000
MPUNIT_247,*,8,CH	UNIT TYPE - 247	84060000
SKIP,8	RESERVED	84096000
MPVOLENT_248,*,32	VOLUME ENTRY - 248	84132000
MPVOLSER_248,=,6,CH	VOLUME SERIAL - 248	84168000
MPRACK_248,*,6,CH	RACK NUMBER - 248	84204000
MPFEAT_248,*,4,CH	FEATURE CODE - 248	84240000
MPUNIT_248,*,8,CH	UNIT TYPE - 248	84276000
SKIP,8	RESERVED	84312000
MPVOLENT_249,*,32	VOLUME ENTRY - 249	84348000
MPVOLSER_249,=,6,CH	VOLUME SERIAL - 249	84384000
MPRACK_249,*,6,CH	RACK NUMBER - 249	84420000
MPFEAT_249,*,4,CH	FEATURE CODE - 249	84456000
MPUNIT_249,*,8,CH	UNIT TYPE - 249	84492000
SKIP,8	RESERVED	84528000
MPVOLENT_250,*,32	VOLUME ENTRY - 250	84564000
MPVOLSER_250,=,6,CH	VOLUME SERIAL - 250	84600000
MPRACK_250,*,6,CH	RACK NUMBER - 250	84636000
MPFEAT_250,*,4,CH	FEATURE CODE - 250	84672000
MPUNIT_250,*,8,CH	UNIT TYPE - 250	84708000
SKIP,8	RESERVED	84744000
MPVOLENT_251,*,32	VOLUME ENTRY - 251	84780000
MPVOLSER_251,=,6,CH	VOLUME SERIAL - 251	84816000
MPRACK_251,*,6,CH	RACK NUMBER - 251	84852000
MPFEAT_251,*,4,CH	FEATURE CODE - 251	84888000
MPUNIT_251,*,8,CH	UNIT TYPE - 251	84924000
SKIP,8	RESERVED	84960000
MPVOLENT_252,*,32	VOLUME ENTRY - 252	84996000
MPVOLSER_252,=,6,CH	VOLUME SERIAL - 252	85032000
MPRACK_252,*,6,CH	RACK NUMBER - 252	85068000
MPFEAT_252,*,4,CH	FEATURE CODE - 252	85104000
MPUNIT_252,*,8,CH	UNIT TYPE - 252	85140000
SKIP,8	RESERVED	85176000
MPVOLENT_253,*,32	VOLUME ENTRY - 253	85212000
MPVOLSER_253,=,6,CH	VOLUME SERIAL - 253	85248000
MPRACK_253,*,6,CH	RACK NUMBER - 253	85284000
MPFEAT_253,*,4,CH	FEATURE CODE - 253	85320000
MPUNIT_253,*,8,CH	UNIT TYPE - 253	85356000
SKIP,8	RESERVED	85392000
MPVOLENT_254,*,32	VOLUME ENTRY - 254	85428000
MPVOLSER_254,=,6,CH	VOLUME SERIAL - 254	85464000
MPRACK_254,*,6,CH	RACK NUMBER - 254	85500000
MPFEAT_254,*,4,CH	FEATURE CODE - 254	85536000
MPUNIT_254,*,8,CH	UNIT TYPE - 254	85572000
SKIP,8	RESERVED	85608000
MPVOLENT_255,*,32	VOLUME ENTRY - 255	85644000
MPVOLSER_255,=,6,CH	VOLUME SERIAL - 255	85680000
MPRACK_255,*,6,CH	RACK NUMBER - 255	85716000
MPFEAT_255,*,4,CH	FEATURE CODE - 255	85752000
MPUNIT_255,*,8,CH	UNIT TYPE - 255	85788000
SKIP,8	RESERVED	85824000
*****		85860000
* END OF PROGRAM PRODUCT INFORMATION		* 85896000
*****		85932000
MPRCEND,*	END OF MPREC	85968000
*		86004000
POSITION,SMFADREC	START AFTER EDGSMFAR	86040000
*****		86076000
* KEY FIELD		* 86112000
*****		86148000
MRKEY,=,56	KEY FIELD	86184000
MRTYPE,=,1,CH	RECORD TYPE	86220000
MRTYPEE,'E'	EMPTY RACK	86256000

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MRYPEF, 'F'	FREE/SCRATCH RACK	86292000
MRTYPEU, 'U'	IN USE RACK	86328000
SKIP, 1	RESERVED	86364000
MRMEDIA, *, 8, CH	MEDIA NAME	86400000
MRUNIT, =, 8, CH	UNIT TYPE	86436000
MRRACK, *, 6, CH	RACK NUMBER	86472000
SKIP, 40	RESERVED	86508000
*****		86544000
* CONTROL INFORMATION		* 86580000
*****		86616000
MRRECLN, *, 2, FI	RECORD LENGTH	86652000
SKIP, 2	RESERVED	86688000
MRCRDATE, *, 4, PD	RACK CREATE DATE - YYYYDDD	86724000
MRCRTIME, *, 4, PD	RACK CREATE TIME - HHMSST	86760000
MRCRSID, *, 8, CH	CREATE SYSTEM ID	86796000
MRRCCDS, *, 8, CH	RECORD CREATE CDS ID	86832000
MRLCDATE, *, 4, PD	LAST CHANGE DATE - YYYYDDD	86868000
MRLCTIME, *, 4, PD	LAST CHANGE TIME - HHMSST	86904000
MRLCUID, *, 8, CH	LAST CHANGE USER ID	86940000
MRLCSID, *, 8, CH	LAST CHANGE SYSTEM ID	86976000
MRUCDATE, *, 4, PD	LAST "USER" CHANGE DATE	87012000
MRUCTIME, *, 4, PD	LAST "USER" CHANGE TIME	87048000
MRCFLG, *, 1, BI	CONTROL FLAGS 1	87084000
MRDELFLG, X'80'	RECORD DELETED	87120000
MRSELFLG, X'10'	SELECT - PROC BY SATELLITE UPDT	87156000
MRDUMMY, X'08'	DUMMY RECORD - ALLOW TSO ADD	87192000
SKIP, 7	RESERVED	87228000
*****		87264000
* RACK INFORMATION		* 87300000
*****		87336000
MRVOLSER, *, 6, CH	ASSIGNED VOLSER OR ZEROS	87372000
SKIP, 10	RESERVED	87408000
*****		87444000
* END OF RACK INFORMATION		* 87480000
*****		87516000
MRRCEND, *	END OF MRRC	87552000
*****		87588000
* END OF RMM MRREC		* 87624000
*****		87660000
*		87696000
POSITION, SMFADREC	START AFTER EDGSMFAR	87732000
*****		87768000
* KEY FIELD		* 87804000
*****		87840000
MSKEY, =, 56	KEY FIELD	87876000
MSTYPE, =, 1, CH	RECORD TYPE	87912000
MSTYPER, 'R'	EMPTY BIN	87948000
MSTYPES, 'S'	ASSIGNED BIN	87984000
MSRMSTID, *, 1, CH	REMOTE STORE ID	88020000
MSSTIDD, 'D'	DISTANT STORE	88056000
MSSTIDL, 'L'	LOCAL STORE	88092000
MSSTIDR, 'R'	REMOTE STORE	88128000
MSSTIDU, 'U'	USER DEFINED STORE	88164000
SKIP, 8	RESERVED	88200000
MSBINNO, *, 6, CH	BIN NUMBER	88236000
SKIP, 40	RESERVED	88272000
MSUSTNAM, *, 8, CH	INSTALLATION DEFINED STORE NAME	88308000
MSUMEDNM, *, 8, CH	INSTALLATION DEFINED STORE BIN MEDIA NAME	88344000
MSUBINNO, *, 6, CH	INSTALLATION DEFINED STORE BIN NUMBER	88380000
*****		88416000
* CONTROL INFORMATION		* 88452000
*****		88488000
MSRECLN, *, 2, FI	RECORD LENGTH	88524000
SKIP, 2	RESERVED	88560000
MSCRDATE, *, 4, PD	CREATE DATE - YYYYDDD	88596000
MSCRTIME, *, 4, PD	CREATE TIME - HHMSST	88632000
MSCRSID, *, 8, CH	CREATE SYSTEM ID	88668000

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MSRCCDS,*,8,CH	RECORD CREATE CDS ID	88704000
MSLCDATE,*,4,PD	LAST CHANGE DATE - YYYYDDDD	88740000
MSLCTIME,*,4,PD	LAST CHANGE TIME - HHMMSSST	88776000
MSLCUID,*,8,CH	LAST CHANGE USER ID	88812000
MSLCSID,*,8,CH	LAST CHANGE SYSTEM ID	88848000
MSUCDATE,*,4,PD	LAST "USER" CHANGE DATE	88884000
MSUCTIME,*,4,PD	LAST "USER" CHANGE TIME	88920000
MSCFLG,*,1,BI	CONTROL FLAGS 1	88956000
MSDELFLG,X'80'	RECORD DELETED	88992000
MSSELFLG,X'10'	SELECT - PROC BY SATELLITE UPDT	89028000
MSDUMMY,X'08'	DUMMY RECORD - ALLOW TSO ADD	89064000
SKIP,7	RESERVED	89100000
*****	*****	89136000
* STORE INFORMATION	*	89172000
*****	*****	89208000
MSVOLSER,*,6,CH	ASSIGNED VOLSER OR ZEROS	89244000
SKIP,10	RESERVED	89280000
*****	*****	89316000
* END OF DISASTER STORE BIN INFORMATION	*	89352000
*****	*****	89388000
MSRCEND,*	END OF MSRC	89424000
*****	*****	89460000
* END OF RMM MSREC	*	89496000
*****	*****	89532000
*	*	89568000
POSITION,SMFADREC	START AFTER EDGSMFAR	89604000
*****	*****	89640000
* KEY FIELD	*	89676000
*****	*****	89712000
MVKEY,=,56	KEY FIELD	89748000
MVTYPE,=,1,CH	RECORD TYPE	89784000
MVTYPEID,'V'	VOLUME INFO ID SYMBOL	89820000
SKIP,1	RESERVED	89856000
MVOLSER,*,6,CH	VOLUME SERIAL NUMBER	89892000
SKIP,48	RESERVED	89928000
*****	*****	89964000
* CONTROL INFORMATION	*	90000000
*****	*****	90036000
MVRECLN,*,2,FI	RECORD LENGTH	90072000
SKIP,2	RESERVED	90108000
MVCRDATE,*,4,PD	VOL CREATE DATE - YYYYDDDD	90144000
MVCRTIME,*,4,PD	VOL CREATE TIME - HHMMSSST	90180000
MVCRSID,*,8,CH	CREATE SYSTEM ID	90216000
MVRCCDS,*,8,CH	RECORD CREATE CDS ID	90252000
MVLCDATE,*,4,PD	LAST CHANGE DATE - YYYYDDDD	90288000
MVLCTIME,*,4,PD	LAST CHANGE TIME - HHMMSSST	90324000
MVLCUID,*,8,CH	LAST CHANGE USER ID	90360000
MVLCSID,*,8,CH	LAST CHANGE SYSTEM ID	90396000
MVUCDATE,*,4,PD	LAST "USER" CHANGE DATE	90432000
MVUCTIME,*,4,PD	LAST "USER" CHANGE TIME	90468000
MVCFLG,*,1,BI	CONTROL FLAGS 1	90504000
MVDELFLG,X'80'	RECORD DELETED	90540000
MVPDLFLG,X'40'	RECORD PREVIOUSLY DELETED	90576000
MVSELFLG,X'10'	SELECT - PROC BY SATELLITE UPDT	90612000
MVDUMMY,X'08'	DUMMY RECORD - ALLOW TSO ADD	90648000
MVRECLEV,*,1,BI	RECORD LEVEL NUMBER	90684000
SKIP,6	RESERVED	90720000
*****	*****	90756000
* VOLUME INFORMATION	*	90792000
*****	*****	90828000
MVEXPDTO,*,4,PD	EXPIRATION DATE - ORIGINAL	90864000
MVEXPDT,*,4,PD	EXPIRATION DATE - YYYYDDDD	90900000
MVRDEN,*,1,BI	COPY OF JFCBDEN	90936000
MVDEN,*,1,CH	RECORDING DENSITY	90972000
MVDEN3,'3'	1600BPI	91008000
MVDEN4,'4'	6250BPI	91044000
MVDEN9,'9'	3480	91080000

MVDENC,'C'	3480 COMPACTED (IDRC)	91116000
MVDENU,'*'	UNDEFINED	91152000
MVDSNNO,*,2,FI	NUMBER OF DATASETS ON VOLUME	91188000
MVTUSE,*,4,FI	TAPE USAGE IN KBYTES	91224000
MVUSE,*,2,FI	VOLUME USE COUNT	91260000
MVSTAT,*,1,BI	STORE STATUS	91296000
MVSTS001,X'01'	TAPE LIB TO REMOTE STORE	91332000
MVSTS002,X'02'	REMOTE STORE TO TAPE LIB	91368000
MVSTS003,X'03'	TAPE LIB TO LOCAL STORE	91404000
MVSTS004,X'04'	LOCAL STORE TO TAPE LIB	91440000
MVSTS005,X'05'	LOCAL STORE TO DISTANT	91476000
MVSTS006,X'06'	TAPE LIB TO DISTANT STORE	91512000
MVSTS007,X'07'	DISTANT STORE TO TAPE LIB	91548000
MVSTS009,X'09'	STORE LOCATION VALID	91584000
MVRSREL,*,1,BI	VRS RELEASE OPTIONS	91620000
MVVRFXDI,B'1.....'	EXPIRY DATE IGNORE	91656000
MVVRFSCI,B'1.....'	SCRATCH IMMEDIATE	91692000
* FLAG BITS IN MVRSREL SHOULD MATCH MKRLSOPT BIT SETTINGS.		91728000
MVLABNO1,*,2,FI	LABEL NUMBER OF 1ST FILE	91764000
MVTDSI,*,4	TAPE MEDIA TYPE INFORMATION	91800000
MVMEDREC,=,1,BI	VOL RECORDING FORMAT	91836000
MVMRCU,X'00'	NON CARTRIDGE	91872000
MVMRC18,X'01'	18TRACK	91908000
MVMRC36,X'02'	36TRACK	91944000
MVMRC128,X'03'	128TRACK	91980000
MVMRC256,X'04'	256TRACK	92016000
MVMEDTY,*,1,BI	TAPE MEDIA TYPE	92052000
MVMTYU,X'00'	UNKNOWN	92088000
MVMTYCS,X'01'	CST	92124000
MVMTYEC,X'02'	ECCST	92160000
MVMTYHP,X'03'	HPCT	92196000
MVMTYEH,X'04'	EHPCT	92232000
MVMEDCMP,*,1,BI	TAPE COMPACTION	92268000
MVMCMU,X'00'	UNKNOWN	92304000
MVMCMNC,X'01'	NOT COMPACTED	92340000
MVMCMC,X'02'	COMPACTED	92376000
MVMEDATR,*,1,BI	TAPE SPECIAL ATTRIBUTES	92412000
MVMATN,X'00'	NONE	92448000
MVMAT18,X'01'	18 TRACK READ ONLY	92484000
MVSTORID,*,1,CH	STORE LOCATION ID	92520000
MVSTIDD,'D'	DISTANT STORE	92556000
MVSTIDL,'L'	LOCAL STORE	92592000
MVSTIDR,'R'	REMOTE STORE	92628000
MVSTIDT,'T'	TAPE LIBRARY	92664000
MVNSTRID,*,1,CH	NEW STORE LOCATION	92700000
MVNLOC,*,8,CH	DESIRED LOCATION NAME	92736000
MVSTBIN,*,4,FI	STORE BIN NUMBER	92772000
MVOBIN,*,4,FI	OLD BIN NUMBER	92808000
MVSTDATE,*,4,PD	DATE STORED (YYYYDDD)	92844000
MVLUDEV,*,4,CH	LAST USED DEVICE	92880000
MVLONLOC,*,8,CH	LOAN LOCATION	92916000
MVOLNLOC,*,8,CH	OLD LOAN LOCATION	92952000
MVLRDDAT,*,4,PD	DATE VOLUME LAST READ (YYYYDDD)	92988000
MVLWTDAT,*,4,PD	DATE VOLUME LAST WRITTEN	93024000
MVASDATM,*,8	ASSIGNED DATE AND TIME	93060000
MVASDATE,=,4,PD	ASSIGNED DATE (YYYYDDD)	93096000
MVASTIME,*,4,PD	ASSIGNED TIME (HHMMSS)	93132000
MVOWNID,*,8,CH	VOLUME OWNER USERID	93168000
MVCRUID,*,8,CH	CREATING USERID	93204000
MVCRJOB,*,8,CH	CREATING JOBNAME	93240000
MVSECLEV,*,1,BI	SECURITY CLASSIFICATION LEVEL	93276000
MVFLGAX,*,1,BI	FLAGS 'A' - STATUS EXTENSION	93312000
MVGVCFLG,B'1.....'	SCRATCH VOL CLAIMED VIA GETVOL	93348000
MVXINFLG,B'1.....'	SCRATCH VOLUME HAS NEVER BEEN INITIALISED	93384000
MVINIFLG,B'..1.....'	SCRATCH VOLUME WITH INIT ACTION PENDING	93420000
MVENTFLG,B'...1.....'	SCRATCH VOLUME WAITING TO ENTER ATL	93456000
MVFABEND,B'....1....'	ABEND IN PROCESS WHEN A DATA SET CLOSED	93492000



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MVFOCEAB,B'.....1..'	ABEND PROBABLY IN O/C/EOV	93528000
MVATIFLG,B'.....1..'	INIT REQUESTED FOR ATL VOL	93564000
MVFORCE,B'.....1..'	FORCE SUPPLIED	93600000
MVVOLSEQ,*,2,FI	VOLUME SEQUENCE NUMBER	93636000
*****	*****	93672000
* VOLUME FLAGS	*	93708000
*****	*****	93744000
MVFLGA,*,1,BI	FLAGS 'A' - STATUS	93780000
MVMSTFLG,B'1.....'	VOLUME IS MASTER	93816000
MVRLSFLG,B'1.....'	VOLUME PENDING RELEASE	93852000
MVVRFLG,B'..1.....'	VITAL RECORD - DO NOT RELEASE	93888000
MVASSFLG,B'...1....'	USER TAPE (ASSIGNED BY LIB)	93924000
MVLONFLG,B'....1...'	TAPE IS ON LOAN	93960000
MVOPNFLG,B'.....1..'	TAPE OPENED AND NOT YET CLOSED	93996000
MVSCRFLG,B'.....1..'	VOLUME IS SCRATCH	94032000
MVOCEFLG,B'.....1..'	VOLUME RECORDED BY O/C/EOV	94068000
MVEXRFLG,B'.....1..'	STV RECORDED BY EXPORT	94104000
MVFLGB,*,1,BI	FLAGS 'B'	94140000
MVDEFRET,B'1.....'	DEFAULT RETENTION PERIOD USED	94176000
MVPPTAPE,B'.1.....'	PROGRAM PRODUCT TAPE	94212000
MVNLTAPE,B'..1.....'	LABEL TYPE IS NL	94248000
MVALTAPE,B'...1....'	LABEL TYPE IS AL	94284000
MVSLTAPE,B'....1...'	LABEL TYPE IS SL	94320000
MVBLTAPE,B'.....1..'	TAPE LAST WRITTEN USING BLP	94356000
MVULTAPE,B'.....1..'	SL OR AL TAPE HAS USER LABELS	94392000
MVFLGC,*,1,BI	FLAGS 'C' - RELEASE ACTIONS	94428000
MVRETSCR,B'1.....'	RETURN TO SCRATCH POOL - DEFAULT	94464000
MVREACT,B'.1111111'	RELEASE ACTIONS	94500000
MVREPREL,B'.1.....'	REPLACE TAPE ON RELEASE	94536000
MVREINIT,B'..1.....'	REINITIALISE	94572000
MVDEGAUS,B'...1....'	DEGAUS/SECURITY ERASE	94608000
MVROWNER,B'....1...'	RETURN TO OWNER	94644000
MVNOWNER,B'.....1..'	NOTIFY OWNER	94680000
MVFLGD,*,1,BI	FLAGS 'D' - ACCESS	94716000
MVOREAD,B'1.....'	OWNER MAY READ VOLUME	94752000
MVOUPD,B'.1.....'	OWNER MAY UPDATE VOLUME	94788000
MVOALT,B'..1.....'	OWNER MAY ALTER VOLUME	94824000
MVPROTR,B'...1....'	READ-ONLY PROTECTION	94860000
MVPROTU,B'....1...'	UPDATE PROTECTION	94896000
MVMVSUSE,B'.....1..'	MAY BE USED ON MVS SYSTEMS	94932000
MVMVUSE,B'.....1..'	MAY BE USED ON VM SYSTEMS	94968000
MVNODSNR,B'.....1..'	ONLY 1ST TAPE DS RECORDED	95004000
MVFLGE,*,1,BI	FLAGS 'E' - ACTIONS PENDING	95040000
* MVRETSCR,B'1.....'	RETURN TO SCRATCH POOL - DEFAULT	95076000
* MVREACT,B'.1111111'	RELEASE ACTIONS	95112000
* MVREPREL,B'.1.....'	REPLACE TAPE ON RELEASE	95148000
* MVREINIT,B'..1.....'	REINITIALISE	95184000
* MVDEGAUS,B'...1....'	DEGAUS/SECURITY ERASE	95220000
* MVROWNER,B'....1...'	RETURN TO OWNER	95256000
* MVNOWNER,B'.....1..'	NOTIFY OWNER	95292000
MVLTYP,*,1,BI	COPY OF JFCBLTYP	95328000
MVALVERS,*,2,CH	ANSI LABEL VERSION	95364000
MVALCUR,=,1,FI	CURRENT LABEL VERSION	95400000
MVALREQ,*,1,FI	REQUIRED LABEL VERSION	95436000
MVMEDIA,*,8,CH	INSTALLATIONS MEDIA NAME	95472000
MVUNIT,=,8,CH	UNIT TYPE	95508000
MVRACK,*,6,CH	RACK NUMBER	95544000
MVPVOL,*,6,CH	PREVIOUS VOLSER IF MULTI-VOL	95580000
MNVOL,*,6,CH	NEXT VOLSER IF MULTI-VOL	95616000
MVUCBTYP,*,4,BI	COPY OF UCBTYP FIELD FROM UCB	95652000
MVERRCNT,*,8	ERROR COUNTS	95688000
MVTRERR,=,2,FI	TEMPORARY READ ERRORS	95724000
MVTWERR,*,2,FI	TEMPORARY WRITE ERRORS	95760000
MVPRERR,*,2,FI	PERMANENT READ ERRORS	95796000
MVPWERR,*,2,FI	PERMANENT WRITE ERRORS	95832000
MVBLKID,*,4,CH	BLOCKID RETURNED BY OCE EX@LEC	95868000
MVPPDATA,*,18	PROGRAM PRODUCT DATA	95904000



MVPPNUM,=,8,CH	PROGRAM PRODUCT NUMBER	95940000
MVVER,*,6,CH	VERSION/RELEASE/MOD NUMBER	95976000
MVFEAT,*,4,CH	FEATURE CODE	96012000
MVTRTCH,*,1,BI	FROM JFCTRTCH - IDRC SUPPORT	96048000
MVTCOMP,X'08'	DSN USED 3480 IDRC	96084000
MVTNCOMP,X'04'	NO COMPACTION	96120000
MVOPVOL,*,6,CH	OLD PREVIOUS VOLUME	96156000
MVTKEN,*,8,CH	RESERVED FOR O/C/EOV	96192000
MVLOCFLG,*,1,BI	FLAG BYTE FOR LIBRARY SUPPORT	96228000
MVTRNFLG,B'1.....'	INDICATES VOLUME IN TRANSIT	96264000
* MVMVMODE,B'.1.....'	WHEN NOT SET, VOLUME IS IN LOCATION	96300000
* MVLTSHL,B'....0000'	INDICATES MANUALMOVE	96336000
MVLTSHL,B'....0000'	WHEN NOT SET, INDICATES AUTOMOVE	96372000
MVLTSHL,B'....0000'	SHELF LOCATION	96408000
MVLTSSTG,B'....0001'	STORAGE LOCATION	96444000
MVLTSMAN,B'....0010'	MANUAL LIBRARY	96480000
MVLTAUT,B'....0011'	AUTOMATIC LIBRARY	96516000
MVLTSB,B'....0100'	STORE WITH BINS	96552000
MVLTSNB,B'....0101'	STORE WITHOUT BINS	96588000
MVTYPFLG,*,1,BI	FLAGS FOR LOCATION TYPE INFORMATION	96624000
MVNTSHL,B'0000....'	SHELF LOCATION	96660000
MVNTSTG,B'0001....'	STORAGE LOCATION	96696000
MVNTMAN,B'0010....'	MANUAL LIBRARY	96732000
MVNTAUT,B'0011....'	AUTOMATIC LIBRARY	96768000
MVNTSB,B'0100....'	STORE WITH BINS	96804000
MVNTSNB,B'0101....'	STORE WITHOUT BINS	96840000
MVDTSHL,B'....0000'	SHELF LOCATION	96876000
MVDTSTG,B'....0001'	STORAGE LOCATION	96912000
MVDTMAN,B'....0010'	MANUAL LIBRARY	96948000
MVDTAUT,B'....0011'	AUTOMATIC LIBRARY	96984000
MVDTSB,B'....0100'	STORE WITH BINS	97020000
MVDTSNB,B'....0101'	STORE WITHOUT BINS	97056000
MVTYP2FLG,*,1,BI	MORE FLAGS FOR TYPES	97092000
MVHTSHL,B'0000....'	SHELF LOCATION	97128000
MVHTSTG,B'0001....'	STORAGE LOCATION	97164000
MVHTMAN,B'0010....'	MANUAL LIBRARY	97200000
MVHTAUT,B'0011....'	AUTOMATIC LIBRARY	97236000
MVHTSB,B'0100....'	STORE WITH BINS	97272000
MVHTSNB,B'0101....'	STORE WITHOUT BINS	97308000
MVRQPRTY,*,2,FI	REQ.LOCATION PRIORITY	97344000
MVCAPACITY,*,4,FI	VOLUME CAPACITY IN MBYTES	97380000
MVHLOC,*,8,CH	HOME LOCATION NAME	97416000
MVSGNAME,*,8,CH	STORAGE GROUP NAME	97452000
MVLOC,*,8,CH	LOCATION NAME	97488000
MVDEST,*,8,CH	DESTINATION NAME	97524000
MVOLOC,*,8,CH	PREVIOUS LOCATION NAME	97560000
MVUSBIN,*,6,CH	SHELF MANAGED STORE BIN NO.	97596000
MVUBMDN,*,8,CH	BIN MEDIA NAME	97632000
MVUSOBIN,*,6,CH	SHELF MANAGED STORE OLD BIN	97668000
MVUOBMDN,*,8,CH	OLD BIN MEDIA NAME	97704000
MVRETDAT,*,4,PD	RETENTION DATE	97740000
MVMAGLAB,*,6,CH	CURRENT MAGNETIC LABEL	97776000
MVOLDRCK,*,6,CH	PREVIOUS RACK NUMBER	97812000
MVLCTOKN,*,8,CH	VOLUME LAST CHANGE TOKEN	97848000
MVVOLTYPE,*,1,FI	VOLUME TYPE	97884000
MVVOLTYPE_PHYSICAL,0	VOLUME TYPE PHYSICAL	97920000
MVVOLTYPE_LOGICAL,1	VOLUME TYPE LOGICAL	97956000
MVVOLTYPE_STACKED,2	VOLUME TYPE STACKED	97992000
MVFLGF,*,1,BI	FLAGS 'F'	98028000
MVRBYSET,X'80'	RETAINED BY SET	98064000
*****		98100000
* LEVEL 1 FIXED LENGTH SECTION (62 BYTES)		* 98136000
*****		98172000
MVLEV1SC,*,62	LEVEL 1 SECTION	98208000
MVDCRSID,*,8,CH	1ST DATA SET CREATE SYSID	98244000
MVCONTAINER,*,16,CH	CONTAINER	98280000
MVCONTAINER_STV,=,8,CH	STACKED VOLUME CONTAINER	98316000

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MVOLD_CONTAINER,*,16,CH OLD CONTAINER 98352000
MVEXPTOKEN,*,8,CH EXPORT TOKEN 98388000
SKIP,9 RESERVED 98424000
MVLAST_POSN,*,1,FI LAST FILE END MEDIA POSITION 98460000
MV_STV_VOLCOUNT,*,4,FI STACKED VOLUME COUNT 98496000
*****
* VARIABLE LENGTH SECTION *
*****
MVARSEC,*,268 VARIABLE LENGTH SECTION 98640000
MVDSN1L,*,1,BI LENGTH OF FIRST DSNAME ON TAPE 98676000
MVDSNLL,*,1,BI LENGTH OF LAST DSNAME ON TAPE 98712000
MVACCLN,*,1,BI LENGTH OF A/C FIELD (OR ZERO) 98748000
MVUSELEN,*,1,BI LENGTH OF USER DATA (OR ZERO) 98784000
MVACCLST,*,1,BI NUMBER OF ACCESS LIST ENTRIES 98820000
SKIP,7 RESERVED 98856000
MVDSN1,*,44,CH DSNAME OF FIRST FILE ON TAPE 98892000
MVDSNL,*,44,CH DSNAME OF LAST FILE ON TAPE 98928000
MVACCLNF,*,40,CH ACCOUNTING INFORMATION 98964000
MVDESC,*,30,CH USER DESCRIPTION 99000000
MVUSEFLD,*,30,CH USER DESCRIPTION 99036000
SKIP,2 RESERVED 99072000
MVAUTIDS,*,96,CH AUTHORISED USER IDS AREA 99108000
* MVAUTIDS IS 12 8-BYTE SLOTS, CONTAINING UP TO 12 USER IDS 99144000
MVAUTIDS_01,*,8,CH USER ID - 01 99180000
MVAUTIDS_02,*,8,CH USER ID - 02 99216000
MVAUTIDS_03,*,8,CH USER ID - 03 99252000
MVAUTIDS_04,*,8,CH USER ID - 04 99288000
MVAUTIDS_05,*,8,CH USER ID - 05 99324000
MVAUTIDS_06,*,8,CH USER ID - 06 99360000
MVAUTIDS_07,*,8,CH USER ID - 07 99396000
MVAUTIDS_08,*,8,CH USER ID - 08 99432000
MVAUTIDS_09,*,8,CH USER ID - 09 99468000
MVAUTIDS_10,*,8,CH USER ID - 10 99504000
MVAUTIDS_11,*,8,CH USER ID - 11 99540000
MVAUTIDS_12,*,8,CH USER ID - 12 99576000
*****
* END OF VOLUME INFORMATION *
*****
MVCEND,* END OF MVRC 99720000
*****
* END OF RMM MVREC *
*****

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## Appendix B. DFSMSrmm Mapping Macros

DFSMSrmm provides the macros identified in this appendix as programming interfaces for customers.

### Attention:

Do not use as programming interfaces any DFSMSrmm macros other than those identified in this book.

- Report Extract Data Set Mapping Macros in SYS1.MACLIB.

You use the extract data set as input to the DFSMSrmm utility EDGRPTD to create reports.

The extract data set contains information extracted from the DFSMSrmm control data set. The extract data set records contain all major key fields so you can select fields and sort them for reports. Variable length fields are expanded to maximum length and redundant control information is removed to allow for simple reporting.

The DATEFORM parameter you use in the EDGHSKP parameter list, or the default set by DATEFORM in EDGRMMxx determines the format of all data fields.

“Extract Data Set Data Set Name Record: EDGRDEXT” on page 186

“Extract Data Set Header Record: EDGRHEXT” on page 189

“Extract Data Set Vital Record Specification Record: EDGRKEXT” on page 190

“Extract Data Set Owner Record: EDGROEXT” on page 192

“Extract Data Set Software Product Record: EDGRPEXT” on page 194

“Extract Data Set Rack Record: EDGRREXT” on page 195

“Extract Data Set Volume Report Record: EDGRVEXT” on page 198

- SMF Records Mapping Macros in SYS1.MODGEN.

DFSMSrmm requires two record types to support audit and security needs. You specify the exact SMF record types in EDGRMMxx, using SMFAUD for auditing and SMFSEC for security records.

You can map the SMF audit record using a combination of mapping macros. EDGSMFAR maps header information in the SMF record; EDGSxREC macros map the data in the body of the records. EDGSMFSR maps the security record information.

“SMF Audit Record Header Information: EDGSMFAR” on page 204

“SMF Security Record Information: EDGSMFSR” on page 205

“SMF Action Record Information: EDGSAREC” on page 213

“SMF Data Set Information: EDGSDREC” on page 215

“SMF Vital Record Specification Information: EDGSKREC” on page 219

“SMF Owner Information: EDGSOREC” on page 222

“SMF Software Product Information: EDGSPREC” on page 225

“SMF Library Shelf Location Information: EDGSRREC” on page 227

“SMF Storage Location Shelf Location Information: EDGSSREC” on page 229

“SMF Volume Information: EDGSVREC” on page 231

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## General-use Programming Interface Mapping Macros

“General-use Programming Interface Mapping Macros” contains General-use Programming Interface and Associated Guidance Information.

## EDGRDEXT

### Extract Data Set Data Set Name Record: EDGRDEXT

EDGRDEXT maps the data set name record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	477	RDEXT	
RDEXT: This macro maps the information produced for data set records in the RMM report extract file. In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.					
0	(0)	CHARACTER	1	Rdtype	RECORD TYPE - 'C'D'
1	(1)	CHARACTER	3	*	RESERVED
4	(4)	CHARACTER	44	RDDSNAME	DATA SET NAME
Start of common fields: The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.					
48	(30)	CHARACTER	10	RDCRDATE	CREATE DATE of data set record
58	(3A)	CHARACTER	6	RDCRTIME	CREATE TIME (HHMMSS) of data set
64	(40)	CHARACTER	8	RDCRSID	CREATE SYSTEM ID of data set record
72	(48)	CHARACTER	10	RDLCDATE	LAST CHANGE DATE of data set record
82	(52)	CHARACTER	6	RDLCTIME	LAST CHANGE TIME (HHMMSS) of data set record
88	(58)	CHARACTER	8	RDLUID	LAST CHANGE USER ID of data set record
96	(60)	CHARACTER	8	RDLCSID	LAST CHANGE SYSTEM ID of data set record
End of common fields					
104	(68)	CHARACTER	6	RDVOLSER	VOLUME SERIAL NUMBER
110	(6E)	CHARACTER	4	RDDSSEQ	DATA SET SEQUENCE NUMBER
114	(72)	CHARACTER	4	RDUNITAD	CREATING DRIVE ADDRESS
118	(76)	CHARACTER	4	RDRECFM	RECORD FORMAT
122	(7A)	CHARACTER	4	RDVOLSEQ	VOLUME SEQUENCE NUMBER
126	(7E)	CHARACTER	6	RDLRECL	LOGICAL RECORD LENGTH
132	(84)	CHARACTER	6	RDBLKSZ	PHYSICAL BLOCK SIZE
138	(8A)	CHARACTER	8	RDBLKCNT	BLOCK COUNT
146	(92)	CHARACTER	8	RDOWNDSN	DATASET OWNER
154	(9A)	CHARACTER	8	RDSECLEV	SECURITY LEVEL - SHORT
162	(A2)	CHARACTER	30	RDSECLNG	SECURITY LEVEL - LONG
192	(C0)	CHARACTER	1	RDCOMP	COMPACTION USED - Y/N
193	(C1)	CHARACTER	10	RDLRDDAT	DATE DATA SET LAST READ
203	(CB)	CHARACTER	10	RDLWTDAT	DATE DATA SET LAST WRITTEN
213	(D5)	CHARACTER	8	RDMCNAME	SMS MANAGEMENT CLASS
221	(DD)	CHARACTER	8	RDVRSVAL	VRS MANAGEMENT VALUE
229	(E5)	CHARACTER	8	RDSGNAME	SMS STORAGE GROUP NAME
237	(ED)	CHARACTER	8	RDSCNAME	SMS STORAGE CLASS NAME
245	(F5)	CHARACTER	8	RDDCNAME	SMS DATA CLASS NAME
253	(FD)	CHARACTER	8	RDCRTJBN	CREATING JOB NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
261	(105)	CHARACTER	1	RDVRSSTYP	MATCHING VRS TYPE, ONE OF: D-DATASET, S-SMSMC, V-VRSMV, M-DATASET AND VRSMV, C-DATASET AND SMSMC
262	(106)	CHARACTER	44	RDVRSNAM	MATCHING VRS NAME
306	(132)	CHARACTER	8	RDVRSJBN	MATCHING VRS JOB NAME MASK
314	(13A)	CHARACTER	10	RDRETDAT	RETENTION DATE
324	(144)	CHARACTER	8	RDSTEPNM	CREATING STEP NAME
332	(14C)	CHARACTER	8	RDDDDNAME	CREATING DD NAME
RDMDMVID: Is a unique token assigned to every volume and every data set in a multi-volume set.					
340	(154)	CHARACTER	8	RDMDMVID	MULTI-DSET MULTI-VOL ID
Data set size: This is calculated by multiplying the blocksize by the number of blocks.					
348	(15C)	CHARACTER	10	RDDSSIZE	APPROX. SIZE OF FILE KBYTES
358	(166)	CHARACTER	1	RDABEND	DSET CLOSED BY ABEND Y/N
RDCAT: Set to 'Y' when opened after allocation determines VOLSER by reference to the catalog. Once set to 'Y' it is never changed.					
359	(167)	CHARACTER	1	RDCAT	DSET USED VIA CATALOG Y/N
360	(168)	CHARACTER	1	RDVRSR	RETAINED BY VRS Y/N
361	(169)	CHARACTER	3	RDRSVMW1	RESERVED
364	(16C)	CHARACTER	4	RDLABNO	LABEL NUMBER LABEL=(xx,II)
Primary VRS subchain name: This is the retaining VRS in the matching primary VRS chain. It is set only if retained by a NAME VRS subchain in the primary VRS.					
368	(170)	CHARACTER	8	RDVRS SCH	Primary VRS subchain NAME
376	(178)	CHARACTER	10	RDVRSXDS	Primary VRS subchain start date
Retaining Secondary VRS name: Matching vrs name and job name are included where a secondary VRS also matches. The retaining VRS subchain NAME in this matching VRS is set if it is used to retain the data set.					
386	(182)	CHARACTER	8	RD2VNME	Secondary VRS name mask
394	(18A)	CHARACTER	8	RD2VJBN	Secondary VRS jobname mask
402	(192)	CHARACTER	8	RD2VSCH	Secondary VRS subchain NAME
410	(19A)	CHARACTER	10	RD2VXDS	Secondary VRS subchain startdate
420	(1A4)	CHARACTER	10	RDTOTAL_BLKCNT	Total block count across this and previous volumes
430	(1AE)	CHARACTER	3	RDPERCENT	Percentage of volume used by data set
433	(1B1)	CHARACTER	8	RDCPGM	Creating program name
441	(1B9)	CHARACTER	8	RDLPGM	Last used program name
449	(1C1)	CHARACTER	8	RDLJOB	Last use job name
457	(1C9)	CHARACTER	8	RDLSTEP	Last use step name
465	(1D1)	CHARACTER	8	RDLDDNM	Last use DD name
473	(1D9)	CHARACTER	4	RDLDEVN	Last use device number
477	(1DD)	CHARACTER	0	RDRCEM	END OF RDEXT

## EDGRDEXT

### EDGRDEXT Cross Reference

Name	Offset	Hex Tag	Level
RDABEND	166		2
RDBLKCNT	8A		2
RDBLKSZ	84		2
RDCAT	167		2
RDCOMP	C0		2
RDCPGM	1B1		2
RDCRDATE	30		2
RDCRSID	40		2
RDCRTIME	3A		2
RDCRTJBN	FD		2
RDDCNAME	F5		2
RDDDNAME	14C		2
RDDSNAME	4		2
RDDSNSEQ	6E		2
RDDSSIZE	15C		2
RDEXT	0		1
RDLABNO	16C		2
RDLCDATE	48		2
RDLCSID	60		2
RDLCTIME	52		2
RDLGUID	58		2
RDLDDNM	1D1		2
RDLDEVN	1D9		2
RDLJOB	1C1		2
RDLPGM	1B9		2
RDLRDDAT	C1		2
RDLRECL	7E		2
RDLSTEP	1C9		2
RDLWTDAT	CB		2
RDMCNAME	D5		2
RDMDMVID	154		2
RDOWNDSN	92		2
RDPERCENT	1AE		2
RDRCEND	1DD		2
RDRECFM	76		2
RDRETDAT	13A		2
RDRSVMW1	169		2
RDSCNAME	ED		2
RDSECLEV	9A		2
RDSECLNG	A2		2
RDSGNAME	E5		2
RDSTEPNM	144		2
RDTOTAL_BLKCNT	1A4		2
RDTYPE	0		2
RDUNITAD	72		2
RDVOLSEQ	7A		2
RDVOLSER	68		2
RDVRSJBN	132		2
RDVRSNAM	106		2
RDVRSR	168		2
RDVRSCH	170		2
RDVRSTYP	105		2
RDVRSVAL	DD		2

Name	Offset	Hex Tag	Level
RDVRSXDS	178		2
RD2VJBN	18A		2
RD2VNME	182		2
RD2VSCH	192		2
RD2VXDS	19A		2

## Extract Data Set Header Record: EDGRHEXT

EDGRHEXT maps the header record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		RHEXT		
RHEXT: This macro maps the information in the extract file header records.						
In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.						
0	(0)	CHARACTER	1	RHTYPE	RECORD TYPE - C'H'	
1	(1)	CHARACTER	47	*	RESERVED	
Start of common fields:						
The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.						
48	(30)	CHARACTER	10	RHCRDATE	CREATE DATE of header record	
58	(3A)	CHARACTER	6	RHCRTIME	CREATE TIME HHMMSS of header record	
64	(40)	CHARACTER	8	RHCRSID	CREATE SYSTEM ID of header record	
72	(48)	CHARACTER	10	*	RESERVED	
82	(52)	CHARACTER	6	*	RESERVED	
88	(58)	CHARACTER	8	*	RESERVED	
96	(60)	CHARACTER	8	*	RESERVED	
End of common fields						
104	(68)	CHARACTER	1	RHDATEFORM	Format of all dates in the extract file	
105	(69)	CHARACTER	100	*	RESERVED	
205	(CD)	CHARACTER	0	RHRCEND	END OF RHEXT	

## EDGRHEXT Constants

Len	Type	Value	Name	Description
1	CHARACTER	H	RHTYPEID	
1	CHARACTER		RHDATEFORM_NOTSET	
1	CHARACTER	E	RHDATEFORM_EUROPEAN	
1	CHARACTER	A	RHDATEFORM_AMERICAN	
1	CHARACTER	I	RHDATEFORM_ISO	
1	CHARACTER	J	RHDATEFORM_JULIAN	

## EDGRHEXT Cross Reference

Name	Offset	Hex Tag	Level
RHCRDATE	30		2

## EDGSDREC

Name	Offset	Hex Tag	Level
RHCRSID	40		2
RHCRTIME	3A		2
RHDATEFORM	68		2
RHEXT	0		1
RHRCEND	CD		2
RHTYPE	0		2

## Extract Data Set Vital Record Specification Record: EDGRKEXT

EDGRKEXT maps the vital record specification record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		RKEXT	
<p>RKEXT: This macro maps the information produced for VRS records in the RMM report extract file. In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.</p>					
0	(0)	CHARACTER	1	RKTYPE	RECORD TYPE - C'K'
1	(1)	CHARACTER	1	RKTYPE2	VRS TYPE. ONE OF:
		111. .1.1		RKTYPVOL	"C'V'" VOLUME VRS C'V'
		11.. .1..		RKTYPDSN	"C'D'" DATA SET VRS C'D'
		11.1 .1.1		RKTYPNAM	"C'N'" NAME VRS C'N'
2	(2)	CHARACTER	1		RESERVED
3	(3)	CHARACTER	44	RKDSNAME	DATA SET NAME MASK
3	(3)	CHARACTER	8	RKNAME	VRS NAME
3	(3)	CHARACTER	6	RKVOLSER	VOLUME SERIAL MASK
47	(2F)	CHARACTER	1	RKGENKEY	DATA SET/VOLUME MASK CONTAINS GENERIC CHARACTERS Y-YES, N-NO

### Start of common fields:

The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.

48	(30)	CHARACTER	10	RKCRDATE	CREATE DATE of VRS record
58	(3A)	CHARACTER	6	RHCRTIME	CREATE TIME (HHMMSS) of VRS record
64	(40)	CHARACTER	8	RHCRSID	CREATE SYSTEM ID of VRS record
72	(48)	CHARACTER	10	RKLCDATE	LAST CHANGE DATE of VRS record
82	(52)	CHARACTER	6	RKLCTIME	LAST CHANGE TIME (HHMMSS) of VRS record
88	(58)	CHARACTER	8	RKLCUID	LAST CHANGE USER ID of VRS record
96	(60)	CHARACTER	8	RKLCSID	LAST CHANGE SYSTEM ID of VRS record

### End of common fields

104	(68)	CHARACTER	8	RKCRJBN	JOBNAME MASK
112	(70)	CHARACTER	1	RKRETNC	RETAIN BASED ON NUMBER OF CYCLES Y/N
113	(71)	CHARACTER	1	RKRETND	RETAIN BASED ON NUMBER OF ELAPSED DAYS Y/N



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
114	(72)	CHARACTER	1	RKRETNR	RETAIN BASED ON NUMBER OF DAYS UNREFERENCED Y/N
115	(73)	CHARACTER	1	RKRETNW	RETAIN ONLY WHILE DATA SET IS CATALOGED Y/N
116	(74)	CHARACTER	1	RKRETNX	RETAIN UNTIL EXPIRED Y/N
117	(75)	CHARACTER	8		RESERVED
125	(7D)	CHARACTER	1	RKDSNG	DATA SET NAME MASK IS FOR A GDG: Y=GDG, P=PSEUDO-GDG ,N=NOGDG
126	(7E)	CHARACTER	1	RKLOCTYP	LOCATION TYPE. ONE OF: A-AUTO, M-MANUAL, S-STORE OR BLANK
127	(7F)	CHARACTER	8	RKLOC	NAME OF LOCATION TO BE STORED ONE OF: HOME, STORAGE LOCATION, OR SMS-DEFINED LIBRARY NAME
135	(87)	CHARACTER	8	RKNEXT	NAME OF NEXT VRS IN THE CHAIN
143	(8F)	CHARACTER	5	RKCOUNT	VITAL RECORD COUNT (NUMBER OF CYCLES OR ELAPSED DAYS OR VOLUMES TO BE KEPT IN TOTAL)
148	(94)	CHARACTER	5	RKSTNUM	STORE KEEP NUMBER (NUMBER OF CYCLES OR DAYS OR VOLUMES TO BE KEPT IN STORE)
153	(99)	CHARACTER	5	RKDELAY	NUMBER OF ELAPSED DAYS DELAY BEFORE BEING SELECTED FOR THE FIRST LOCATION
158	(9E)	CHARACTER	8	RKOWNER	VITAL RECORD OWNER
166	(A6)	CHARACTER	10	RKDELDAT	DATE THE VRS IS TO BE DELETED BY RMM
176	(B0)	CHARACTER	30	RKDESC	DESCRIPTION
END OF REPORT EXTRACT VRS RECORD					
206	(CE)	CHARACTER	1	RKRCEND(0) RKRCCLNG	END OF RKEXT "RKRCEND-RKEXT" MAX LENGTH OF RKEXT

### Constants

Len	Type	Value	Name	Description
1	CHARACTER	V	RKTYPVOL	VOLUME VRS
1	CHARACTER	D	RKTYPDSN	DATAASET VRS
1	CHARACTER	N	RKTYPNAM	NAME VRS
2	DECIMAL	206	RKRCLNG	CB LENGTH

### EDGRKEXT Cross Reference

Name	Offset	Hex Tag	Level
RKCOUNT	8F		2
RKCRDATE	30		2

## EDGRKEXT

Name	Offset	Hex Tag	Level
RKCRSID	40		2
RKCRTIME	3A		2
RKCRTJBN	68		2
RKDELAY	99		2
RKDELDAT	A6		2
RKDESC	B0		2
RKDSNAME	3		2
RKDSNG	7D		2
RKGENKEY	2F		2
RKLCDATE	48		2
RKLCSID	60		2
RKLCTIME	52		2
RKLCUID	58		2
RKLOC	7F		2
RKLOCTYP	7E		2
RKNAME	3		2
RKNEXT	87		2
RKOWNER	9E		2
RKRCEND	D6		2
RKRCLNG	D6	D6	2
RKRELIXD	CE		2
RKRELOPT	CE		2
RKRELSI	CF		2
RKRETAND	77		2
RKRETNC	70		2
RKRETNCD	76		2
RKRETND	71		2
RKRETNR	72		2
RKRETNW	73		2
RKRETNX	74		2
RKRETNXD	75		2
RKSTNUM	94		2
RKTYPDSN	1	C4	2
RKTYPE	0		2
RKTYPE2	1		2
RKTYPNAM	1	D5	2
RKTYPVOL	1	E5	2
RKVOLSER	3		2

## Extract Data Set Owner Record: EDGROEXT

EDGROEXT maps the owner record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		ROEXT	
ROEXT: This macro maps the information produced for owner records in the RMM report extract file. In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.					
0	(0)	CHARACTER	1	ROTYPE	RECORD TYPE - 'C'O'
1	(1)	CHARACTER	3		RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
4	(4)	CHARACTER	8	ROOWNER	OWNER ID
12	(C)	CHARACTER	36		RESERVED SO CRDATE IN SAMEPLACE
Start of common fields:					
The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.					
48	(30)	CHARACTER	10	ROCRDATE	CREATE DATE of owner record
58	(3A)	CHARACTER	6	ROCRTIME	CREATE TIME (HHMMSS) of owner record
64	(40)	CHARACTER	8	ROCRSID	CREATE SYSTEM ID of owner record
72	(48)	CHARACTER	10	ROLCDATE	LAST CHANGE DATE of owner record
82	(52)	CHARACTER	6	ROLCTIME	LAST CHANGE TIME (HHMMSS) of owner record
88	(58)	CHARACTER	8	ROLGUID	LAST CHANGE USER ID of owner record
96	(60)	CHARACTER	8	ROLCSID	LAST CHANGE SYSTEM ID of owner record
End of common fields					
104	(68)	CHARACTER	20	ROOWNSUR	OWNER LAST NAME
124	(7C)	CHARACTER	20	ROOWNFST	OWNER FIRST NAME
144	(90)	CHARACTER	40	ROOWNDEP	OWNER DEPARTMENT
184	(B8)	CHARACTER	40	ROOWNAD1	OWNER ADDRESS LINE 1
224	(E0)	CHARACTER	40	ROOWNAD2	OWNER ADDRESS LINE 2
264	(108)	CHARACTER	40	ROOWNAD3	OWNER ADDRESS LINE 3
304	(130)	CHARACTER	8	ROOWNTIN	OWNER INTERNAL TELEPHONE NUMBER
312	(138)	CHARACTER	20	ROOWNTEX	OWNER EXTERNAL TELEPHONE NUMBER
332	(14C)	CHARACTER	8	ROOWNUID	OWNER ELECTRONIC USERID
340	(154)	CHARACTER	8	ROOWNNOD	OWNER ELECTRONIC NODE NAME
348	(15C)	CHARACTER	6	ROOWNVOL	TOTAL NUMBER OF OWNED VOLUMES
END OF REPORT EXTRACT OWNER RECORD					
354	(162)	CHARACTER	1	RORCEND(0)	END OF ROEXT
354	(162)			RORCLNG	"RORCEND-ROEXT" MAX LENGTH OF ROEXT

### EDGROEXT Cross Reference

Name	Offset	Hex Tag	Level
ROCRDATE	30		2
ROCRSID	40		2
ROCRTIME	3A		2
ROLCDATE	48		2
ROLCSID	60		2
ROLCTIME	52		2
ROLGUID	58		2
ROOWNAD1	B8		2
ROOWNAD2	E0		2
ROOWNAD3	108		2

## EDGROEXT

Name	Offset	Hex Tag	Level
ROOWNDEP	90		2
ROOWNER	4		2
ROOWNFST	7C		2
ROOWNNOD	154		2
ROOWNSUR	68		2
ROOWNTEX	138		2
ROOWNTIN	130		2
ROOWNUID	14C		2
ROOWNVOL	15C		2
RORCEND	162		2
RORCLNG	162	162	2
ROTYPE	0		2

## Extract Data Set Software Product Record: EDGRPEXT

EDGRPEXT maps the software product record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		RPEXT		
<p>RPEXT: This macro maps the information produced for product records in the RMM report extract file.            In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.</p>						
0	(0)	CHARACTER	1	RPTYPE	RECORD TYPE - 'C'P'	
1	(1)	CHARACTER	3		RESERVED	
4	(4)	CHARACTER	8	RPPPNUM	PRODUCT NUMBER (NNNN-CCC)	
12	(C)	CHARACTER	6	RPVER	VERSION/RELEASE/MOD NUMBER (vvrmm) where vv - version, rr - release, mm - modification level	
18	(12)	CHARACTER	30		RESERVED SO CRDATE IN SAMEPLACE	
<p>Start of common fields:            The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.</p>						
48	(30)	CHARACTER	10	RPCRDATE	CREATE DATE of product record	
58	(3A)	CHARACTER	6	RPCRTIME	CREATE TIME (HHMMSS) of product record	
64	(40)	CHARACTER	8	RPCRSID	CREATE SYSTEM ID of product record	
72	(48)	CHARACTER	10	RPLCDATE	LAST CHANGE DATE of product record	
82	(52)	CHARACTER	6	RPLCTIME	LAST CHANGE TIME (HHMMSS) of product record	
88	(58)	CHARACTER	8	RPLCUID	LAST CHANGE USER ID of product record	
96	(60)	CHARACTER	8	RPLCSID	LAST CHANGE SYSTEM ID of product record	
<p>End of common fields</p>						
104	(68)	CHARACTER	8	RPPPOWN	PRODUCT OWNER ID	
112	(70)	CHARACTER	30	RPPPNAME	PRODUCT NAME	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
142	(8E)	CHARACTER	30	RPPPDESC	PRODUCT DESCRIPTION
172	(AC)	CHARACTER	4	RPVOLNO	NUMBER OF PRODUCT VOLUMES
END OF REPORT EXTRACT PRODUCT RECORD					
176	(B0)	CHARACTER	1	RPRCEND(0)	END OF RPEXT
		1.11 ....		RPRCLNG	"RPRCEND-RPEXT" MAX LENGTH OF RPEXT

### EDGRPEXT Cross Reference

Name	Offset	Hex Tag	Level
RPCRDATE	30		2
RPCRSID	40		2
RPCRTIME	3A		2
RPLCDATE	48		2
RPLCSID	60		2
RPLCTIME	52		2
RPLCUID	58		2
RPPPDESC	8E		2
RPPPNAME	70		2
RPPPNUM	4		2
RPPPOWN	68		2
RPRCEND	B0		2
RPRCLNG	B0	B0	2
RPTYPE	0		2
RPVER	C		2
RPVOLNO	AC		2

### Extract Data Set Rack Record: EDGRREXT

EDGRREXT maps the rack record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		RREXT	
RREXT: This macro maps the information produced for rack number records in the RMM report extract file. In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.					
0	(0)	CHARACTER	1	RRTYPE	RECORD TYPE - C'R'
1	(1)	CHARACTER	1	RRTYPE2	RACK RECORD ID: ONE OF:
		11.. .1.1		RRTYPEE	"C'E" E - EMPTY RACK
		11.. .11.		RRTYPEF	"C'F" F - FREE/SCRATCH RACK
		111. .1..		RRTYPEU	"C'U" U - IN USE RACK
2	(2)	CHARACTER	2		RESERVED
4	(4)	CHARACTER	6	RRRACK	RACK NUMBER
10	(A)	CHARACTER	8	RRNAME	MEDIA NAME
		.... 1.1.		RRUNIT	"RRNAME,8" Old name for RRNAME field

## EDGRREXT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
18	(12)	CHARACTER	30		RESERVED SO CRDATE IN SAMEPLACE
Start of common fields:					
The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.					
48	(30)	CHARACTER	10	RRCRDATE	CREATE DATE of rack record
58	(3A)	CHARACTER	6	RRCRTIME	CREATE TIME (HHMMSS) of rack record
64	(40)	CHARACTER	8	RRCRSID	CREATE SYSTEM ID of rack record
72	(48)	CHARACTER	10	RRLCDATE	LAST CHANGE DATE of rack record
82	(52)	CHARACTER	6	RRLCTIME	LAST CHANGE TIME (HHMMSS) of rack record
88	(58)	CHARACTER	8	RRLCUID	LAST CHANGE USER ID of rack record
96	(60)	CHARACTER	8	RRLCSID	LAST CHANGE SYSTEM ID of rack record
End of common fields					
104	(68)	CHARACTER	6	RRVOLSER	ASSIGNED VOLUME SERIAL NUMBER
END OF REPORT EXTRACT RACK NUMBER RECORD					
110	(6E)	CHARACTER .11. 111.	1	RRRCEND(0) RRRCLNG	END OF RREXT "RRRCEND-RREXT" MAX LENGTH OF RREXT

## EDGRREXT Cross Reference

Name	Offset	Hex Tag	Level
RRCRDATE	30		2
RRCRSID	40		2
RRCRTIME	3A		2
RRLCDATE	48		2
RRLCSID	60		2
RRLCTIME	52		2
RRLCUID	58		2
RRNAME	A		2
RRRACK	4		2
RRRCEND	6E		2
RRRCLNG	6E	6E	2
RRTYPE	0		2
RRTYPEE	1	C5	2
RRTYPEF	1	C6	2
RRTYPEU	1	E4	2
RRTYPE2	1		2
RRUNIT	A	A	2
RRVOLSER	68		2

## Extract Data Set Storage Location Shelf Location Record EDGRSEXT

EDGRSEXT maps the storage location bin record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		RSEXT	
RSEXT: This macro maps the information produced for bin number records in the RMM report extract file. In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parm lib specified value.					
0	(0)	CHARACTER	1	RSTYPE	RECORD TYPE C'S'
1	(1)	CHARACTER	1	RSTYPE2	BIN RECORD ID: ONE OF:
		11.. .1.1		RSTYPER	"C'E" E - EMPTY BIN
		111. .1..		RSTYPES	"C'U" U - ASSIGNED BIN
2	(2)	CHARACTER	8	RSRMSTID	STORAGE LOCATION NAME
10	(A)	CHARACTER	1		RESERVED
11	(B)	CHARACTER	6	RSBINNO	BIN NUMBER
17	(11)	CHARACTER	8	RSBMEDN	BIN MEDIA NAME
25	(19)	CHARACTER	23		RESERVED SO CRDATE IN SAMEPLACE
Start of common fields: The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.					
48	(30)	CHARACTER	10	RSCRDATE	CREATE DATE of bin record
58	(3A)	CHARACTER	6	RSCRTIME	CREATE TIME (HHMMSS) of bin record
64	(40)	CHARACTER	8	RSCRSID	CREATE SYSTEM ID of bin record
72	(48)	CHARACTER	10	RSLCDATE	LAST CHANGE DATE of bin record
82	(52)	CHARACTER	6	RSLCTIME	LAST CHANGE TIME (HHMMSS) of bin record
88	(58)	CHARACTER	8	RSLCUID	LAST CHANGE USER ID of bin record
96	(60)	CHARACTER	8	RSLCSID	LAST CHANGE SYSTEM ID of bin record
End of common fields					
104	(68)	CHARACTER	6	RSVOLSER	ASSIGNED VOLUME SERIAL NUMBER
END OF REPORT EXTRACT STORAGE LOCATION BIN RECORD					
110	(6E)	CHARACTER	1	RSRCEND(0)	END OF RSEXT
		.11. 111.		RSRCLNG	"RSRCEND-RSEXT" MAX LENGTH OF RSEXT

### EDGRSEXT Cross Reference

Name	Offset	Hex Tag	Level
RSBINNO	B		2
RSBMEDN	11		2
RSCRDATE	30		2
RSCRSID	40		2
RSCRTIME	3A		2
RSLCDATE	48		2
RSLCSID	60		2
RSLCTIME	52		2

## EDGRSEXT

Name	Offset	Hex Tag	Level
RSLCUID	58		2
RSRCEND	6E		2
RSRCLNG	6E	6E	2
RSRMSTID	2		2
RSTYPE	0		2
RSTYPER	1	C5	2
RSTYPES	1	E4	2
RSTYPE2	1		2
RSVOLSER	68		2

## Extract Data Set Volume Report Record: EDGRVEXT

EDGRVEXT maps the volume record in the DFSMSrmm extract data set. See "Using the Extract Data Set" on page 6 for more information about the DFSMSrmm extract data set.

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
0	(0)	STRUCTURE	771	RVEXT	
RVEXT: This macro maps the information produced for volume records in the RMM report extract file. In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.					
0	(0)	CHARACTER	1	RVTYPE	RECORD TYPE - C'V'
1	(1)	CHARACTER	3	*	RESERVED
4	(4)	CHARACTER	6	RVVOLSER	VOLUME SERIAL NUMBER
10	(A)	CHARACTER	6	RVPVOL	PREVIOUS VOLUME IN SEQUENCE
16	(10)	CHARACTER	6	RVNVOL	NEXT VOLUME IN SEQUENCE
22	(16)	CHARACTER	6	*	RESERVED
RVMDMVID: Is a unique token assigned to every volume and every data set in a multi-volume set.					
28	(1C)	CHARACTER	8	RVMDMVID	MULTI-DSET MULT-VOL ID
36	(24)	CHARACTER	12	*	RESERVED SO CRDATE SAMEPLACE
Start of common fields: The common fields are in the same place in each record type in the report extract file. This allows common processing of these field across multiple record types.					
48	(30)	CHARACTER	10	RVCRDATE	CREATE DATE of volume record
58	(3A)	CHARACTER	6	RVCRTIME	CREATE TIME HHMMSS of volume record
64	(40)	CHARACTER	8	RVCRSID	CREATE SYSTEM ID of volume record
72	(48)	CHARACTER	10	RVLCDATE	LAST CHANGE DATE of volume record
82	(52)	CHARACTER	6	RVLCTIME	LAST CHANGE TIME HHMMSS of volume record
88	(58)	CHARACTER	8	RVLCUID	LAST CHANGE USER ID of volume record
96	(60)	CHARACTER	8	RVLCSID	LAST CHANGE SYSTEM ID of volume record
104	(68)	CHARACTER	10	RVEXPDTO	EXPIRATION DATE - original
114	(72)	CHARACTER	10	RVEXPDT	EXPIRATION DATE - current
124	(7C)	CHARACTER	4	RVDEN	RECORDING DENSITY



Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
128	(80)	CHARACTER	1	RVCOMP	COMPACTION USED - Y/N
129	(81)	CHARACTER	4	RVDSNNO	NUMBER OF DATASETS ON VOLUME
133	(85)	CHARACTER	10	RVTUSE	TAPE USAGE IN KBYTES
143	(8F)	CHARACTER	4	RVUSE	VOLUME USE COUNT
147	(93)	CHARACTER	4	RVLABNO1	LABEL NO OF FIRST FILE
151	(97)	CHARACTER	8	RVSTORID	CURRENT LOCATION NAME: ONE OF: SHELF, LOCAL, REMOTE, DISTANT INSTALLATION-DEFINED STORE, OR SMS-DEFINED LIBRARY NAME
159	(9F)	CHARACTER	8	RVDEST	DESTINATION NAME: ONE OF: SHELF, LOCAL, REMOTE, DISTANT, INSTALLATION-DEFINED STORE, OR SMS-DEFINED LIBRARY NAME

Bin Numbers: If a volume is not moving (RVTRANS=N), and is in a storage location, RVSTBIN contains the current bin number and RVOBIN the bin number in the previous location.

If a volume is moving (RVTRANS=Y), and moving to a storage location, RVSTBIN contains the target bin number and RVOBIN the bin number in the source location.

167	(A7)	CHARACTER	6	RVSTBIN	STORE BIN NUMBER
173	(AD)	CHARACTER	6	RVOBIN	OLD BIN NUMBER
179	(B3)	CHARACTER	10	RVSTDATE	DATE STORED
189	(BD)	CHARACTER	10	RVRETDAT	RETENTION DATE CALCULATED BY VRS PROCESSING
199	(C7)	CHARACTER	8	RVLONLOC	LOAN LOCATION
207	(CF)	CHARACTER	8	RVOLNLOC	PREVIOUS LOAN LOCATION
215	(D7)	CHARACTER	10	RVLRDDAT	DATE VOLUME LAST READ
225	(E1)	CHARACTER	10	RVLWTDAT	DATE VOLUME LAST WRITTEN

Assigned date and time:

These fields are set each time a volume changes either from or to scratch status.

235	(EB)	CHARACTER	10	RVASDATE	ASSIGNED DATE
245	(F5)	CHARACTER	6	RVASTIME	ASSIGNED TIME HHMMSS
251	(FB)	CHARACTER	8	RVOWNID	VOLUME OWNER USERID
259	(103)	CHARACTER	8	RVCRUID	CREATING USERID
267	(10B)	CHARACTER	8	RVCRJOB	CREATING JOBNAME
275	(113)	CHARACTER	8	RVSECLEV	SECURITY LEVEL - SHORT
283	(11B)	CHARACTER	30	RVSECLNG	SECURITY LEVEL - LONG
313	(139)	CHARACTER	4	RVVOLSEQ	VOLUME SEQUENCE NUMBER
317	(13D)	CHARACTER	8	RVSTATUS	VOLUME STATUS One of: MASTER USER SCRATCH INIT ENTRY
325	(145)	CHARACTER	1	RVPENDRS	VOLUME PENDING RELEASE - Y/N
326	(146)	CHARACTER	1	RVVRS	VOLUME RETAINED BY VRS - Y/N
327	(147)	CHARACTER	1	RVLOAN	VOLUME ON LOAN - Y/N
328	(148)	CHARACTER	1	RVOPEN	VOLUME IS OPENED - Y/N
329	(149)	CHARACTER	1	RVOCER	VOLUME RECORDED BY O/C/EOV - Y/N

## EDGRVEXT

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
330	(14A)	CHARACTER	1	RVDEFRET	PARMLIB DEFAULT RETENTION USED TO GENERATE THE VOLUME EXPDT - Y/N
331	(14B)	CHARACTER	1	RVPTAPE	PROGRAM PRODUCT TAPE - Y/N
Labels: The RVLABEL field provides information about what label types may be written on the volume. If BLP output has been used, the volume may no longer match this information. Any BLP output beyond file 1 on a volume is not recorded by RMM.					
332	(14C)	CHARACTER	3	RVLABEL	LABEL TYPE SL/AL/NL/SUL/AUL
335	(14F)	CHARACTER	1	RVBLP	VOLUME LAST WRITTEN BLP Y/N
Release Actions: The following 5 fields list the actions to be set for the volume when it is released. These are not the current actions. See RSACTION for the pending actions.					
336	(150)	CHARACTER	8	RVRETS	RETURN ACTION - OWNER/SCRATCH
344	(158)	CHARACTER	1	RVREPL	REPLACE ON RELEASE - Y/N
345	(159)	CHARACTER	1	RVINIT	REINITIALISE - Y/N
346	(15A)	CHARACTER	1	RVERASE	SECURITY ERASE - Y/N
347	(15B)	CHARACTER	1	RVNTFY	NOTIFY OWNER - Y/N
348	(15C)	CHARACTER	1	RVOWNAC	OWNER ACCESS - R/U/A
349	(15D)	CHARACTER	1	RVUSERAC	USER ACCESS - R/U
350	(15E)	CHARACTER	1	RVVMUSE	VM USE - Y/N
351	(15F)	CHARACTER	1	RVMVSUSE	MVS USE - Y/N
352	(160)	CHARACTER	8	RVNAME	MEDIA NAME
352	(160)	CHARACTER	8	RVUNIT	Old name for RVNAME field
360	(168)	CHARACTER	6	RVRACK	RACK NUMBER
366	(16E)	CHARACTER	4	RVTRERR	TEMPORARY READ ERRORS
370	(172)	CHARACTER	4	RVTWERR	TEMPORARY WRITE ERRORS
374	(176)	CHARACTER	4	RVPRERR	PERMANENT READ ERRORS
378	(17A)	CHARACTER	4	RVPWERR	PERMANENT WRITE ERRORS
Product Information: Includes number, release and feature code					
382	(17E)	CHARACTER	8	RVPPNUM	PROGRAM PRODUCT NUMBER
390	(186)	CHARACTER	6	RVVER	VERSION/RELEASE/MOD NUMBER
396	(18C)	CHARACTER	4	RVFEAT	FEATURE CODE
400	(190)	CHARACTER	40	RVACCINF	ACCOUNTING INFORMATION
440	(1B8)	CHARACTER	30	RVUSEFLD	USER DESCRIPTION
470	(1D6)	CHARACTER	3	RVACCLST	NUMBER OF ACCESS LIST ENTRIES
473	(1D9)	CHARACTER	96	RVAUTIDS	AUTHORISED USER IDS AREA
569	(239)	CHARACTER	8	RVHLOC	HOME LOCATION NAME
577	(241)	CHARACTER	1	RVTRANS	VOLUME IN TRANSIT. ONE OF: Y-YES N-NO
578	(242)	CHARACTER	1	RVLOCTYP	LOCATION TYPE. ONE OF: A-AUTO, M-MANUAL, S-STORE, BLANK
579	(243)	CHARACTER	1	RVDESTYP	DESTINATION TYPE. ONE OF: A-AUTO, M-MANUAL, S-STORE, BLANK
580	(244)	CHARACTER	8	RVOLOC	THE PREVIOUS LOCATION NAME
588	(24C)	CHARACTER	8	RVSGNAME	STORAGE GROUP NAME

Offsets		Type	Length	Name (Dim)	Description
Decimal	Hex				
596	(254)	CHARACTER	8	RVMEDREC	VOLUME RECORDING FORMAT. 18TRACK, 36TRACK, 128TRACK or 256TRACK
604	(25C)	CHARACTER	8	RVMEDTY	VOLUME MEDIA TYPE. ONE OF: , CST, ECCST, HPCT, EHPCT EHPCT IS RESERVED FOR EXTENDED HIGH PERFORMANCE CARTRIDGE TAPE
612	(264)	CHARACTER	8	RVMEDCMP	COMPACTION TECHNIQUE. ONE OF: NONE, YES
620	(26C)	CHARACTER	8	RVMEDATR	SPECIAL ATTRIBUTES. ONE OF: NONE, RDCOMPAT
628	(274)	CHARACTER	44	RVDSNAM1	FIRST FILE DATA SET NAME
672	(2A0)	CHARACTER	1	RVMVMODE	MOVE MODE, ONE OF A-AUTOMOVE, M-MANUALMOVE
673	(2A1)	CHARACTER	1	RVDSNREC	DATA SET RECORDING Y=YES, N=NO
674	(2A2)	CHARACTER	2	RVALVERS	ANSI LABEL VERSIONS
674	(2A2)	CHARACTER	1	RVALCUR	CURRENT LABEL VERSION
675	(2A3)	CHARACTER	1	RVALREQ	REQUIRED LABEL VERSION
676	(2A4)	CHARACTER	8	RVBMEDN	BIN MEDIA NAME
684	(2AC)	CHARACTER	8	RVOBMEDN	OLD BIN MEDIA NAME
692	(2B4)	CHARACTER	8	RVNLOC	NEXT LOCATION NAME
700	(2BC)	CHARACTER	4	RVLUDEV	LAST USED DRIVE

Pending Actions: The following fields list the actions required for the volume. See RVRETS for the actions set when the volume is released.

704	(2C0)	CHARACTER	8	RVACTION	PENDING ACTIONS
704	(2C0)	CHARACTER	1	RVACTSCR	RETURN TO SCRATCH Y/N
705	(2C1)	CHARACTER	1	RVACTREP	REPLACE VOLUME Y/N
706	(2C2)	CHARACTER	1	RVACTRET	RETURN TO OWNER Y/N
707	(2C3)	CHARACTER	1	RVACTINI	INITIALIZE Y/N
708	(2C4)	CHARACTER	1	RVACTERA	ERASE Y/N
709	(2C5)	CHARACTER	1	RVACTNOT	NOTIFY Y/N
710	(2C6)	CHARACTER	2	RVACTRSV	RESERVED
712	(2C8)	CHARACTER	1	RVABEND	DATASET CLOSED BY ABEND: ONE OF: Y-YES OR N-NO
713	(2C9)	CHARACTER	1	RVHOMTYP	HOME LOCATION TYPE. ONE OF: A-AUTO,M-MANUAL,OR BLANK
714	(2CA)	CHARACTER	1	RVNEXTYP	NEXT LOCATION TYPE. ONE OF: A-AUTO,M-MANUAL,S-STORE, OR BLANK.
715	(2CB)	CHARACTER	1	RVVOLTYPE	VOLUME TYPE
716	(2CC)	CHARACTER	8	RVVRSREL	VRS RELEASE OPTIONS
716	(2CC)	CHARACTER	1	RVRELIXD	IGNORE EXPDT Y/N
717	(2CD)	CHARACTER	1	RVRELSI	SCRATCH IMMEDIATE Y/N
718	(2CE)	CHARACTER	6	RVRELRSV	RESERVED
724	(2D4)	CHARACTER	16	RVCONTNR	IN CONTAINER NAME
740	(2E4)	CHARACTER	4	RVRQPRTY	MOVEMENT PRIORITY
744	(2E8)	CHARACTER	10	RVCAPACITY	Volume capacity in MBytes
754	(2F2)	CHARACTER	1	RVRBYSET	VOLUME IS RETAINED BY SET Y/N
755	(2F3)	CHARACTER	1	RVSTACKVOL_ENABLED	

## EDGRVEXT

Offsets		Type	Length	Name (Dim)	Description
Decimal	Hex				
756	(2F4)	CHARACTER	8	RVEXPTOKEN	STACKED VOLUME RECORDS ENABLED AND SYNCHRONIZED UNIQUE VALUE CREATED AT START OF EXPORT TO A NEW STACKED VOLUME.
764	(2FC)	SIGNED	4	RVSTACKED_VOLCOUNT	COUNT OF VOLUMES STACKED ON A VOLUME.
768	(300)	CHARACTER	3	RVPERCENT	Volume percentage full
771	(303)	CHARACTER	0	RVRCEND	END OF RVEXT

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	L	RVVOLTYPE_LOGICAL	
1	CHARACTER	P	RVVOLTYPE_PHYSICAL	
1	CHARACTER	S	RVVOLTYPE_STACKED	

## EDGRVEXT Cross Reference

Name	Offset	Hex Tag	Level
RVABEND	2C8		2
RVACCINF	190		2
RVACCLST	1D6		2
RVACTERA	2C4		3
RVACTINI	2C3		3
RVACTION	2C0		2
RVACTNOT	2C5		3
RVACTREP	2C1		3
RVACTRET	2C2		3
RVACTRSV	2C6		3
RVACTSCR	2C0		3
RVALCUR	2A2		3
RVALREQ	2A3		3
RVALVERS	2A2		2
RVASDATE	EB		2
RVASTIME	F5		2
RVAUTIDS	1D9		2
RVBLP	14F		2
RVBMEDN	2A4		2
RVCAPACITY	2E8		2
RVCOMP	80		2
RVCONTNR	2D4		2
RVCRDATE	30		2
RVCRJOB	10B		2
RVCRSID	40		2
RVCRTIME	3A		2
RVCRUID	103		2
RVDEFRET	14A		2
RVDEN	7C		2
RVDEST	9F		2
RVDESTYP	243		2
RVDSNAM1	274		2

## EDGRVEXT

Name	Offset	Hex Tag	Level
RVDSNNO	81		2
RVDSNREC	2A1		2
RVERASE	15A		2
RVEXPDT	72		2
RVEXPDTO	68		2
RVEXPTOKEN	2F4		2
RVEXT	0		1
RVFEAT	18C		2
RVHLOC	239		2
RVHOMTYP	2C9		2
RVINIT	159		2
RVLABEL	14C		2
RVLABNO1	93		2
RVLCDATE	48		2
RVLCSID	60		2
RVLCTIME	52		2
RVLCUID	58		2
RVLOAN	147		2
RVLOCTYP	242		2
RVLONLOC	C7		2
RVLRDDAT	D7		2
RVLUDEV	2BC		2
RVLWTDAT	E1		2
RVMDMVID	1C		2
RVMEDATR	26C		2
RVMEDCMP	264		2
RVMEDREC	254		2
RVMEDTY	25C		2
RVMVMODE	2A0		2
RVMVSUSE	15F		2
RVNAME	160		2
RVNEXTYP	2CA		2
RVNLOC	2B4		2
RVNTFY	15B		2
RVNVOL	10		2
RVOBIN	AD		2
RVOBMEDN	2AC		2
RVOCER	149		2
RVOLNLOC	CF		2
RVOLOC	244		2
RVOPEN	148		2
RVOWNAC	15C		2
RVOWNID	FB		2
RVPENDRS	145		2
RVPERCENT	300		2
RVPPNUM	17E		2
RVPTAPE	14B		2
RVPRERR	176		2
RVPVOL	A		2
RVPWERR	17A		2
RVRACK	168		2
RVRBYSET	2F2		2
RVRCEND	303		2
RVRELIXD	2CC		3

## EDGRVEXT

Name	Offset	Hex Tag	Level
RVRELRSV	2CE		3
RVRELSI	2CD		3
RVREPL	158		2
RVRETDAT	BD		2
RVRETS	150		2
RVRQPRTY	2E4		2
RVSECLEV	113		2
RVSECLNG	11B		2
RVSGNAME	24C		2
RVSTACKED_VOLCOUNT	2FC		2
RVSTACKVOL_ENABLED	2F3		2
RVSTATUS	13D		2
RVSTBIN	A7		2
RVSTDATE	B3		2
RVSTORID	97		2
RVTRANS	241		2
RVTRERR	16E		2
RVTUSE	85		2
RVTWERR	172		2
RVTYPE	0		2
RVUNIT	160		3
RVUSE	8F		2
RVUSEFLD	1B8		2
RVUSERAC	15D		2
RVVER	186		2
RVVMUSE	15E		2
RVVOLSEQ	139		2
RVVOLSER	4		2
RVVOLTYPE	2CB		2
RVVRS	146		2
RVVRSREL	2CC		2

## SMF Audit Record Header Information: EDGSMFAR

EDGSMFAR maps the DFSMSrmm SMF audit record header. See "Using the Audit Report" on page 40 for more information about the DFSMSrmm audit report.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		SMFAR	
START OF RMM SMFAR					
0	(0)	BITSTRING	1	SMFADRC(0)	** SMF AUDIT RECORD **
0	(0)	BITSTRING	2	SMFADLEN	** RECORD LENGTH **
2	(2)	CHARACTER	2		** RESERVED **
4	(4)	BITSTRING	1	SMFADFLG	** SYSTEM TYPE : **
	EQU X'04'	MVS/XA			
	EQU X'0E'	MVS/ESA			
5	(5)	BITSTRING	1	SMFADRTY	** RECORD TYPE **
6	(6)	BITSTRING	4	SMFADTME	** TIME SINCE MIDNIGHT IN ** HUNDREDTHS OF A SECOND ** THAT RECORD WAS MOVED TO ** THE SMF BUFFER.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
10	(A)		4	SMFADDTE	** DATE RECORD WAS MOVED ** TO THE SMF BUFFER ** IN THE FORM 0CYYDDDF ** WHERE F IS THE SIGN AND ** C IS 0 FOR 19YY AND ** 1 FOR 20YY.	
14	(E)	CHARACTER	4	SMFADSID	** SYSTEM IDENTIFICATION **	
18	(12)	CHARACTER	8	SMFADJBN	** JOB NAME **	
26	(1A)	CHARACTER	4	SMFADRST	** READER START TIME **	
30	(1E)	CHARACTER	4	SMFADRSD	** READER START DATE **	
END OF SMF RECORD HEADER SECTION						
34	(22)	CHARACTER	8	SMFADUID	** RACF USER ID **	
42	(2A)	CHARACTER	1	SMFADACT	** ACTIVITY TYPE : ** * A - RECORD ADDED ** * C - RECORD CHANGED ** * D - RECORD DELETED **	
43	(2B)	BITSTRING	1	SMFADREC(0)	** START OF INFORMATION **	
END OF SMF AUDIT RECORD						
END OF RMM SMFAR						

### EDGSMFAR Cross Reference

Name	Hex Offset	Hex Value	Level
SMFADACT	2A		2
SMFADDTE	A		2
SMFADFLG	4		2
SMFADJBN	12		2
SMFADLEN	0		2
SMFADRC	0		2
SMFADREC	2B		2
SMFADRSD	1E		2
SMFADRST	1A		2
SMFADRST	1A		2
SMFADRST	1A		2
SMFADRST	1A		2
SMFADRTY	5		2
SMFADSID	E		2
SMFADTME	6		2
SMFADUID	22		2

### SMF Security Record Information: EDGSMFSR

EDGSMFSR maps the DFSMSrmm SMF security record. See "Using the Security Report" on page 39 for more information about the DFSMSrmm audit report.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		SMFSR		
START OF RMM SMFSR						
0	(0)	BITSTRING	140	SMFSAREC	** SMF SECURITY AUDIT RECORD **	
0	(0)	BITSTRING	2	SMFSALEN	** RECORD LENGTH **	
2	(2)	CHARACTER	2		** RESERVED **	
4	(4)	BITSTRING	1	SMFSAFLG	** SYSTEM TYPE : **	
5	(5)	BITSTRING	1	SMFSARTY	** RECORD TYPE **	
		EQU X'04' MVS/XA				
		EQU X'0E' MVS/ESA				

## EDGSMFSR

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
6	(6)	BITSTRING	4	SMFSATME	** TIME SINCE MIDNIGHT IN ** HUNDREDTHS OF A SECOND ** THAT RECORD WAS MOVED TO ** THE SMF BUFFER.
10	(A)		4	SMFSADTE	** DATE RECORD WAS MOVED ** TO THE SMF BUFFER ** IN THE FORM 0CYYDDDF ** WHERE F IS THE SIGN AND ** C IS 0 FOR 19YY AND ** 1 FOR 20YY.
14	(E)	CHARACTER	4	SMFSASID	** SYSTEM IDENTIFICATION **
18	(12)	CHARACTER	8	SMFSAJBN	** JOB NAME **
26	(1A)	CHARACTER	4	SMFSARST	** READER START TIME **
30	(1E)	CHARACTER	4	SMFSARSD	** READER START DATE **
END OF SMF RECORD HEADER SECTION					
34	(22)	CHARACTER	8	SMFSAUIF	** USER IDENTIFICATION **
42	(2A)	CHARACTER	8	SMFSAUID	** RACF USER ID **
50	(32)	CHARACTER	8	SMFSACGP	** RACF CONNECT GROUP **
58	(3A)	CHARACTER	1	SMFSAVER	** RECORD VERSION IDENTIFIER (2) **
59	(3B)	CHARACTER	1	SMFSAACT	** ACTIVITY TYPE : ** ** C - DATASET CREATE ** ** E - DATASET EXTEND ** ** U - DATASET UPDATE ** ** R - DATASET READ ACCESS ** ** D - DATASET DELETE **
60	(3C)	BITSTRING	1	SMFSASTP	** SECURITY TYPE ** ** (CLASSIFICATION NUMBER) **
61	(3D)	CHARACTER	1		** RESERVED **
62	(3E)	CHARACTER	44	SMFSADSN	** DATASET NAME **
106	(6A)	CHARACTER	6	SMFSAVOL	** VOLUME SERIAL NUMBER **
112	(70)	CHARACTER	8	SMFSAUNT	** DEVICE TYPE **
120	(78)	BITSTRING	2	SMFSADSQ	** DATASET SEQUENCE NUMBER **
122	(7A)	BITSTRING	2	SMFSAVSQ	** VOLUME SEQUENCE NUMBER **
124	(7C)	CHARACTER	16		** RESERVED **
END OF SMF SECURITY RECORD					
140	(8C)	SIGNED 1... 11..	4	SMFSEND(0) SMFSLNG	** END OF SMFSR ** "SMFSEND-SMFSAREC" ** MAX LENGTH OF SMFSR ** ** **
END OF RMM SMFSR					

## EDGSMFSR Cross Reference

Name	Offset	Hex Tag	Level
SMFSAACT	3B		2
SMFSACGP	32		2
SMFSADSN	3E		2
SMFSADSQ	78		2
SMFSADTE	A		2
SMFSAFLG	4		2
SMFSAJBN	12		2
SMFSALEN	0		2
SMFSAREC	0		2



Name	Offset	Hex Tag	Level
SMFSARSD	1E		2
SMFSARST	1A		2
SMFSARTY	5		2
SMFSASID	E		2
SMFSASTP	3C		2
SMFSATME	6		2
SMFSAUID	2A		2
SMFSAUIF	22		2
SMFSAUNT	70		2
SMFSAVER	3A		2
SMFSAVOL	6A		2
SMFSAVSQ	7A		2
SMFSEND	8C		2
SMFSLNG	8C	8C	2

## Product-sensitive Programming Interface Mapping Macros

“Product-sensitive Programming Interface Mapping Macros” contains Product-sensitive Programming Interface and Associated Guidance Information. The macros in this section are broken down into:

- EDGACTRC ACTIVITY File
- DFSMSrmm Installation Exit parameter lists
- SMF record mapping macros for your security and audit needs

### ACTIVITY File Record Macro: EDGACTRC

EDGACTRC maps the DFSMSrmm ACTIVITY File. See “Using the Inventory Management ACTIVITY File” on page 7 for information about using the ACTIVITY file.

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
0	(0)	STRUCTURE	443	ACTRC	activity record
0	(0)	CHARACTER	4	ACTRC_RDW	record descriptor word
0	(0)	SIGNED	2	ACTRC_RDW_LEN	record descriptor - length
2	(2)	BITSTRING	2	ACTRC_RDW_SEG	record descriptor - segment
Common record prefix					
4	(4)	CHARACTER	4	ACTRC_PREFIX	common prefix
4	(4)	CHARACTER	1	ACTRC_PRE_TYPE	activity file record type
5	(5)	CHARACTER	3	*	reserved
8	(8)	CHARACTER	435	ACTRC_DATA	overlay for details areas
Header Record					
8	(8)	CHARACTER	73	ACTRC_HDR_DATA	header data
8	(8)	CHARACTER	10	ACTRC_HDR_RUN_DATE	inventory mgmt date
18	(12)	CHARACTER	6	ACTRC_HDR_RUN_TIME	inventory mgmt time
24	(18)	CHARACTER	10	ACTRC_HDR_VERIFY_DATE	inv mgmt VERIFY date
34	(22)	CHARACTER	16	ACTRC_HDR_EXEC	execution parameters
34	(22)	CHARACTER	1	ACTRC_HDR_BACKUP	BACKUP: Y/N
35	(23)	CHARACTER	1	ACTRC_HDR_DSTORE	DSTORE: Y/N

## EDGACTRC

Offsets		Type	Length	Name (Dim)	Description
Decimal	Hex				
36	(24)	CHARACTER	1	ACTRC_HDR_EXPROC	EXPROC: Y/N
37	(25)	CHARACTER	1	ACTRC_HDR_RPTEXT	RPTEXT: Y/N
38	(26)	CHARACTER	1	ACTRC_HDR_VRSEL	VRSEL: Y/N
39	(27)	CHARACTER	1	ACTRC_HDR_VERIFY	VERIFY: Y/N
40	(28)	CHARACTER	1	ACTRC_HDR_DATE	VERIFY DATE: Y/N
41	(29)	CHARACTER	1	ACTRC_HDR_DATEFORM	DATEFORM:
42	(2A)	CHARACTER	1	ACTRC_HDR_CATSYNCH	CATSYNCH: Y/N
43	(2B)	CHARACTER	7	*	reserved
50	(32)	CHARACTER	31	ACTRC_HDR_OPTIONS	
50	(32)	CHARACTER	1	ACTRC_HDR_VRSJOBNAME	VRSJOBNAME:
51	(33)	CHARACTER	1	ACTRC_HDR_VRSCHANGE	VRSCHANGE:
52	(34)	CHARACTER	4	ACTRC_HDR_CATRETPD	CATRETPD hours
56	(38)	CHARACTER	10	ACTRC_HDR_VRSMIN_COUNT	VRSMIN count
66	(42)	CHARACTER	1	ACTRC_HDR_VRSMIN_ACTION	VRSMIN action:
67	(43)	CHARACTER	1	ACTRC_HDR_OPT_VRSEL	VRSEL: New/Old
68	(44)	CHARACTER	1	ACTRC_HDR_UNCATALOG	UNCATALOG:
69	(45)	CHARACTER	1	ACTRC_HDR_TPRACF	TPRACF:
70	(46)	CHARACTER	8	ACTRC_HDR_SYSID	SYSID:
78	(4E)	CHARACTER	1	ACTRC_HDR_CATSYSID	CATSYSID:
79	(4F)	CHARACTER	1	ACTRC_HDR_OPT_RETAINBY	RETAINBY:
80	(50)	CHARACTER	1	ACTRC_HDR_OPT_MOVEBY	MOVEBY:
Data Set Record					
8	(8)	CHARACTER	435	ACTRC_DSN_DATA	data set details data
8	(8)	CHARACTER	44	ACTRC_DSN_DSNAME	data set name
52	(34)	CHARACTER	8	ACTRC_DSN_JOBNAME	creating job name
60	(3C)	CHARACTER	6	ACTRC_DSN_VOL	volume serial number
66	(42)	CHARACTER	4	ACTRC_DSN_DSEQ	data set sequence
70	(46)	CHARACTER	4	ACTRC_DSN_FILESEQ	physical file sequence
74	(4A)	CHARACTER	10	ACTRC_DSN_CRDATE	data set creation date
84	(54)	CHARACTER	6	ACTRC_DSN_CRTIME	data set creation time
90	(5A)	CHARACTER	8	ACTRC_DSN_LOC	volume location

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
98	(62)	CHARACTER	8	ACTRC_DSN_DEST	volume destination
106	(6A)	CHARACTER	8	ACTRC_DSN_SMS_MC	SMS mgmt class name
114	(72)	CHARACTER	8	ACTRC_DSN_VRS_MV	VRS mgmt value name
122	(7A)	CHARACTER	1	ACTRC_DSN_CATLG	data set catlg status
123	(7B)	CHARACTER	10	ACTRC_DSN_CYCLE	primary vrs data set cycle number
133	(85)	CHARACTER	10	ACTRC_DSN_2CYCLE	second. vrs data set cycle number
143	(8F)	CHARACTER	1	ACTRC_DSN_SUBCHAIN_DROP	primary subchain drop reason
144	(90)	CHARACTER	1	ACTRC_DSN_2SUBCHAIN_DROP	second. subchain drop reason
145	(91)	CHARACTER	1	ACTRC_DSN_OLD_CATLG	old catlg status
146	(92)	CHARACTER	1	ACTRC_DSN_NEW_CATLG	new catlg status
147	(93)	CHARACTER	31	*	reserved
178	(B2)	CHARACTER	8	ACTRC_DSN_CHANGE	Changes to data set
178	(B2)	CHARACTER	1	ACTRC_DSN_CHNG_VRS	vital status: Y/N
179	(B3)	CHARACTER	1	ACTRC_DSN_CHNG_RETDATE	retention date: Y/N
180	(B4)	CHARACTER	1	ACTRC_DSN_CHNG_MATCH	matching VRS: Y/N
181	(B5)	CHARACTER	1	ACTRC_DSN_CHNG_SUBCHAIN	retaining subchain: Y/N
182	(B6)	CHARACTER	1	ACTRC_DSN_CHNG_CATALOG	cat status: Y/N
183	(B7)	CHARACTER	3	*	reserved
186	(BA)	CHARACTER	1	ACTRC_DSN_OLD_VITAL	old vital status: Y/N
187	(BB)	CHARACTER	1	ACTRC_DSN_NEW_VITAL	new vital status: Y/N
188	(BC)	CHARACTER	1	ACTRC_DSN_DROP	non-retention reason
189	(BD)	CHARACTER	8	ACTRC_DSN_NEW_LOC	new required location
197	(C5)	CHARACTER	10	ACTRC_DSN_OLD_RETDATE	old retention date:
207	(CF)	CHARACTER	10	ACTRC_DSN_NEW_RETDATE	new retention date: Format: as DATEFORM() Special date formats: - WHILECATLG - CYCL/nnnnn - CATRETPD
217	(D9)	CHARACTER	113	ACTRC_DSN_OLD_MATCH	old matching VRS
217	(D9)	CHARACTER	1	ACTRC_DSN_OLD_MTYPE	old primary VRS type:
218	(DA)	CHARACTER	44	ACTRC_DSN_OLD_MMASK	old primary VRS mask
262	(106)	CHARACTER	8	ACTRC_DSN_OLD_MJOB	old primary VRS job name mask

## EDGACTRC

Offsets		Type	Length	Name (Dim)	Description
Decimal	Hex				
270	(10E)	CHARACTER	8	ACTRC_DSN_OLD_M2MASK	old second. VRS mask
278	(116)	CHARACTER	8	ACTRC_DSN_OLD_M2JOB	old second. VRS job name mask
286	(11E)	CHARACTER	8	ACTRC_DSN_OLD_MNAME	old primary VRS subchain NAME
294	(126)	CHARACTER	10	ACTRC_DSN_OLD_MDATE	old primary VRS subchain start date
304	(130)	CHARACTER	8	ACTRC_DSN_OLD_M2NAME	old second. VRS subchain NAME
312	(138)	CHARACTER	10	ACTRC_DSN_OLD_M2DATE	old second. VRS subchain start date
322	(142)	CHARACTER	8	*	reserved
330	(14A)	CHARACTER	113	ACTRC_DSN_NEW_MATCH	new matching VRS
330	(14A)	CHARACTER	1	ACTRC_DSN_NEW_MTYPE	new matching VRS
331	(14B)	CHARACTER	44	ACTRC_DSN_NEW_MMASK	new primary VRS mask
375	(177)	CHARACTER	8	ACTRC_DSN_NEW_MJOB	new primary VRS job name mask
383	(17F)	CHARACTER	8	ACTRC_DSN_NEW_M2MASK	new second. VRS mask
391	(187)	CHARACTER	8	ACTRC_DSN_NEW_M2JOB	new second. VRS job name mask
399	(18F)	CHARACTER	8	ACTRC_DSN_NEW_MNAME	new primary VRS subchain NAME
407	(197)	CHARACTER	10	ACTRC_DSN_NEW_MDATE	new primary VRS subchain start date
417	(1A1)	CHARACTER	8	ACTRC_DSN_NEW_M2NAME	new second. VRS subchain NAME
425	(1A9)	CHARACTER	10	ACTRC_DSN_NEW_M2DATE	new second. VRS subchain start date
435	(1B3)	CHARACTER	8	*	reserved
Volume Record					
8	(8)	CHARACTER	0	ACTRC_VOL_DATA	volume data
8	(8)	CHARACTER	0	*	

## EDGACTRC Constants

Len	Type	Value	Name	Description
1	CHARACTER	H	ACTRC_PRE_TYPE_HDR	
1	CHARACTER	D	ACTRC_PRE_TYPE_DSN	
1	CHARACTER	V	ACTRC_PRE_TYPE_VOL	
1	CHARACTER	1	ACTRC_HDR_VRSJOBNAME_FIRST	
1	CHARACTER	2	ACTRC_HDR_VRSJOBNAME_SECOND	
1	CHARACTER	N	ACTRC_HDR_OPT_VRSEL_NEW	
1	CHARACTER	O	ACTRC_HDR_OPT_VRSEL_OLD	
1	CHARACTER	N	ACTRC_HDR_UNCATALOG_NO	
1	CHARACTER	Y	ACTRC_HDR_UNCATALOG_YES	

## Constants for EDGACTRC

Len	Type	Value	Name	Description
1	CHARACTER	S	ACTRC_HDR_UNCATALOG_SCRATCH	
1	CHARACTER	N	ACTRC_HDR_TPRACF_NONE	
1	CHARACTER	P	ACTRC_HDR_TPRACF_PREDEFINED	
1	CHARACTER	A	ACTRC_HDR_TPRACF_AUTOMATIC	
1	CHARACTER	N	ACTRC_HDR_CATSYSID_NOT_SET	
1	CHARACTER	Y	ACTRC_HDR_CATSYSID_SET	
1	CHARACTER	*	ACTRC_HDR_CATSYSID_SHARED	
1	CHARACTER	V	ACTRC_HDR_OPT_RETAINBY_VOLUME	
1	CHARACTER	S	ACTRC_HDR_OPT_RETAINBY_SET	
1	CHARACTER	V	ACTRC_HDR_OPT_MOVEBY_VOLUME	
1	CHARACTER	S	ACTRC_HDR_OPT_MOVEBY_SET	
1	CHARACTER	Y	ACTRC_DSN_CATLG_YES	
1	CHARACTER	N	ACTRC_DSN_CATLG_NO	
1	CHARACTER	F	ACTRC_DSN_CATLG_FAILED	
1	CHARACTER	U	ACTRC_DSN_CATLG_UNKNOWN	
1	CHARACTER	W	ACTRC_DSN_DROP_WHILECATALOG	
1	CHARACTER	U	ACTRC_DSN_DROP_UNTILEXPIRED	
1	CHARACTER	C	ACTRC_DSN_DROP_CYCLES	
1	CHARACTER	D	ACTRC_DSN_DROP_DAYS	
1	CHARACTER	L	ACTRC_DSN_DROP_LASTREF	
1	CHARACTER	X	ACTRC_DSN_DROP_EXTRADAYS	
1	CHARACTER	B	ACTRC_DSN_DROP_BYDAYSCYCLE	
1	CHARACTER	N	ACTRC_DSN_DROP_NO_MATCH	
1	CHARACTER	G	ACTRC_DSN_DROP_DUP_GDG	
1	CHARACTER	V	ACTRC_DSN_DROP_VOL_RELEASED	

## EDGACTRC Cross Reference

Name	Offset	Hex Tag	Level
ACTRC	0		1
ACTRC_DATA	8		2
ACTRC_DSN_CATLG	7A		4
ACTRC_DSN_CHANGE	B2		4
ACTRC_DSN_CHNG_CATALOG	B6		5
ACTRC_DSN_CHNG_MATCH	B4		5
ACTRC_DSN_CHNG_RETDATE	B3		5
ACTRC_DSN_CHNG_SUBCHAIN	B5		5
ACTRC_DSN_CHNG_VRS	B2		5
ACTRC_DSN_CRDATE	4A		4
ACTRC_DSN_CRTIME	54		4
ACTRC_DSN_CYCLE	7B		4
ACTRC_DSN_DATA	8		3
ACTRC_DSN_DEST	62		4
ACTRC_DSN_DROP	BC		4
ACTRC_DSN_DSEQ	42		4
ACTRC_DSN_DSNAME	8		4
ACTRC_DSN_FILESEQ	46		4
ACTRC_DSN_JOBNAME	34		4
ACTRC_DSN_LOC	5A		4
ACTRC_DSN_NEW_CATLG	92		4
ACTRC_DSN_NEW_LOC	BD		4
ACTRC_DSN_NEW_MATCH	14A		4
ACTRC_DSN_NEW_MDATE	197		5
ACTRC_DSN_NEW_MJOB	177		5

## EDGACTRC

Name	Offset	Hex Tag	Level
ACTRC_DSN_NEW_MMASK	14B		5
ACTRC_DSN_NEW_MNAME	18F		5
ACTRC_DSN_NEW_MTYPE	14A		5
ACTRC_DSN_NEW_M2DATE	1A9		5
ACTRC_DSN_NEW_M2JOB	187		5
ACTRC_DSN_NEW_M2MASK	17F		5
ACTRC_DSN_NEW_M2NAME	1A1		5
ACTRC_DSN_NEW_RETDATE	CF		4
ACTRC_DSN_NEW_VITAL	BB		4
ACTRC_DSN_OLD_CATLG	91		4
ACTRC_DSN_OLD_MATCH	D9		4
ACTRC_DSN_OLD_MDATE	126		5
ACTRC_DSN_OLD_MJOB	106		5
ACTRC_DSN_OLD_MMASK	DA		5
ACTRC_DSN_OLD_MNAME	11E		5
ACTRC_DSN_OLD_MTYPE	D9		5
ACTRC_DSN_OLD_M2DATE	138		5
ACTRC_DSN_OLD_M2JOB	116		5
ACTRC_DSN_OLD_M2MASK	10E		5
ACTRC_DSN_OLD_M2NAME	130		5
ACTRC_DSN_OLD_RETDATE	C5		4
ACTRC_DSN_OLD_VITAL	BA		4
ACTRC_DSN_SMS_MC	6A		4
ACTRC_DSN_SUBCHAIN_DROP	8F		4
ACTRC_DSN_VOL	3C		4
ACTRC_DSN_VRS_MV	72		4
ACTRC_DSN_2CYCLE	85		4
ACTRC_DSN_2SUBCHAIN_DROP	90		4
ACTRC_HDR_BACKUP	22		5
ACTRC_HDR_CATRETPD	34		5
ACTRC_HDR_CATSYNCH	2A		5
ACTRC_HDR_CATSYSID	4E		5
ACTRC_HDR_DATA	8		3
ACTRC_HDR_DATE	28		5
ACTRC_HDR_DATEFORM	29		5
ACTRC_HDR_DSTORE	23		5
ACTRC_HDR_EXEC	22		4
ACTRC_HDR_EXPROC	24		5
ACTRC_HDR_OPT_MOVEBY	50		5
ACTRC_HDR_OPT_RETAINBY	4F		5
ACTRC_HDR_OPT_VRSEL	43		5
ACTRC_HDR_OPTIONS	32		4
ACTRC_HDR_RPTEXT	25		5
ACTRC_HDR_RUN_DATE	8		4
ACTRC_HDR_RUN_TIME	12		4
ACTRC_HDR_SYSID	46		5
ACTRC_HDR_TPRACF	45		5
ACTRC_HDR_UNCATALOG	44		5
ACTRC_HDR_VERIFY	27		5
ACTRC_HDR_VERIFY_DATE	18		4
ACTRC_HDR_VRSCHANGE	33		5
ACTRC_HDR_VRSEL	26		5
ACTRC_HDR_VRSJOBNAME	32		5
ACTRC_HDR_VRSMIN_ACTION	42		5

Name	Offset	Hex Tag	Level
ACTRC_HDR_VRSMIN_COUNT	38		5
ACTRC_PRE_TYPE	4		3
ACTRC_PREFIX	4		2
ACTRC_RDW	0		2
ACTRC_RDW_LEN	0		3
ACTRC_RDW_SEG	2		3
ACTRC_VOL_DATA	8		3

## SMF Action Record Information: EDGSAREC

EDGSAREC maps the action record information.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE		MAREC		
START OF RMM MAREC						
0	(0)	SIGNED	4	MARECORD(0)	** EDGSAREC RECORD **	
KEY FIELD						
0	(0)	CHARACTER	56	MAKEY(0)	** ACTION RECORD KEY FIELD **	
0	(0)	CHARACTER	1	MATYPE	** ACTION RECORD RECORD TYPE **	
		11.. ..11		MATYPEID	"C'C'" ** ACTION RECORD ID SYMBOL **	
1	(1)	CHARACTER	1	MATYPE1	** **	
		11.. ...1		MATYPE1_ACTION	"C'A'" ** ACTION SUB-TYPE **	
		11.1 .1..		MATYPE1_MOVE	"C'M'" ** MOVE SUB-TYPE **	
2	(2)	CHARACTER	8	MAACTION	** ACTION TYPE: ONE OF ** ** MOVE,SCRATCH,RETURN,REPLACE, ** ** INIT,ERASE,NOTIFY **	
10	(A)	CHARACTER	8		** RESERVED **	
18	(12)	CHARACTER	8	MALOC	** SOURCE LOCATION FOR MOVE **	
26	(1A)	CHARACTER	8	MADEST	** TARGET LOCATION FOR MOVE **	
34	(22)	CHARACTER	22	MAPAD1	** RESERVED - BINARY ZEROS **	
CONTROL INFORMATION						
56	(38)	SIGNED	2	MARECLN	** RECORD LENGTH **	
58	(3A)	SIGNED	2		** RESERVED **	
60	(3C)		4	MACRDATE	** ACTION CREATE DATE - YYYYDDD **	
64	(40)		4	MACRTIME	** ACTION CREATE TIME - HHMMSST **	
68	(44)	CHARACTER	8	MACRSID	** CREATE SYSTEM ID **	
76	(4C)	CHARACTER	8	MARCCDS	** RECORD CREATE CDS ID ** **	
84	(54)		4	MALCDATE	** LAST CHANGE DATE - YYYYDDD **	
88	(58)		4	MALCTIME	** LAST CHANGE TIME - HHMMSST **	
92	(5C)	CHARACTER	8	MALCUID	** LAST CHANGE USER ID **	
100	(64)	CHARACTER	8	MALCSID	** LAST CHANGE SYSTEM ID **	
108	(6C)		4	MAUCDATE	** LAST "USER" CHANGE DATE **	
112	(70)		4	MAUCTIME	** LAST "USER" CHANGE TIME **	

## EDGSAREC

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
FLAG BYTES					
116	(74)	BITSTRING	1	MACFLG	** CONTROL FLAGS 1 **
		1... ..		MADEFLG	"X'80'" ** RECORD DELETED **
		...1 ..		MASEFLG	"X'10'" ** SELECT - PROC BY SATELLITE UPDT**
117	(75)	BITSTRING	1	MARECLEV	** RECORD LEVEL NUMBER **
118	(76)	BITSTRING	6		** RESERVED **
ACTION RECORD SPECIFIC INFORMATION					
124	(7C)	SIGNED	4	MACOUNT	** COUNT OF VOLS REQ THIS ACTION **
128	(80)	BITSTRING	1	MASFLAG	** STATUS OF MOVES AND ACTIONS **
		1... ..		MASCOMP	"X'80'" ** STATUS = COMPLETED **
		.1.. ..		MASPEND	"X'40'" ** STATUS = PENDING **
		..1. ..		MASCONF	"X'20'" ** STATUS = CONFIRMED **
		...1 ..		MASUNK	"X'10'" ** STATUS = UNKNOWN **
129	(81)	CHARACTER	7	MARESVD	** RESERVED **
END OF ACTION RECORD SPECIFICATION FILE RECORD					
136	(88)	SIGNED	4	MARCEND(0)	** END OF MAREC **
		1... 1..		MARCLNG	"MARCEND-MARECORD" ** MAX LENGTH OF MARECORD ** ** **
END OF RMM MAREC					

## EDGSAREC Cross Reference

Name	Offset	Hex Tag	Level
MAACTION	2		2
MACFLG	74		2
MACOUNT	7C		2
MACRDATE	3C		2
MACRSID	44		2
MACRTIME	40		2
MADEFLG	74	80	2
MADEST	1A		2
MAKEY	0		2
MALCDATE	54		2
MALCSID	64		2
MALCTIME	58		2
MALCUID	5C		2
MALOC	12		2
MAPAD1	22		2
MARCCDS	4C		2
MARCEND	88		2
MARCLNG	88	88	2
MARECLEV	75		2
MARECLN	38		2
MARECORD	0		2
MARESVD	81		2
MASCOMP	80	80	2
MASCONF	80	20	2
MASEFLG	74	10	2



## EDGSAREC

Name	Offset	Hex Tag	Level
MASFLAG	80		2
MASPEND	80	40	2
MASUNK	80	10	2
MATYPE	0	C3	2
MATYPEID	0	C3	2
MATYPE1	1		2
MATYPE1_ACTION	1	C1	2
MATYPE1_MOVE	1	D4	2
MAUCDATE	6C		2
MAUCTIME	70		2

## SMF Data Set Information: EDGSDREC

EDGSDREC maps the data set information.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	512	MDREC	
0	(0)	CHARACTER	56	MDRECORD	EDGSDREC INFORMATION
0	(0)	CHARACTER	1	MDTYPE	DSN INFO ID: 'D'
1	(1)	CHARACTER	44	MDDSNAME	DATASET NAME
45	(2D)	CHARACTER	6	MDVOLSER	VOLUME SERIAL NUMBER
51	(33)	BITSTRING	1	*	RESERVED - BINARY ZEROS
52	(34)	SIGNED	2	MDDSNSEQ	DATASET SEQUENCE NUMBER
54	(36)	CHARACTER	2	MDPAD1	RESERVED - BINARY ZEROS
56	(38)	SIGNED	2	MDRECLN	RECORD LENGTH
58	(3A)	SIGNED	2	*	RESERVED
60	(3C)	CHARACTER	4	MDCRDATE	DSN CREATE DATE - YYYYDDD
64	(40)	CHARACTER	4	MDCRTIME	DSN CREATE TIME - HHMSST
68	(44)	CHARACTER	8	MDCRSID	CREATE SYSTEM ID
76	(4C)	CHARACTER	8	MDRCCDS	RECORD CREATE CDS ID
84	(54)	CHARACTER	4	MDLCDATE	LAST CHANGE DATE - YYYYDDD
88	(58)	CHARACTER	4	MDLCTIME	LAST CHANGE TIME - HHMSST
92	(5C)	CHARACTER	8	MDLCUID	LAST CHANGE USER ID
100	(64)	CHARACTER	8	MDLCSID	LAST CHANGE SYSTEM ID
108	(6C)	CHARACTER	4	MDUCDATE	LAST "USER" CHANGE DATE
112	(70)	CHARACTER	4	MDUCTIME	LAST "USER" CHANGE TIME
116	(74)	BITSTRING	1	MDCFLG	CONTROL FLAGS 1
		1... ....		MDELFLG	RECORD DELETED
		.1.. ....		MDPDLFLG	RECORD PREVIOUSLY DELETED
		..1. ....		*	
		...1 ....		MDELFLG	SELECT - PROC BY SATELLITE
		.... 1...		UPDT	
		.... .111		MDDUMMY	DUMMY RECORD - ALLOW TSO
				*	ADD
117	(75)	BITSTRING	1	MDRECLEV	RECORD LEVEL NUMBER
118	(76)	CHARACTER	6	*	RESERVED
124	(7C)	SIGNED	4	MDTOTAL_BLKs	Total block count across all volumes containing ds
128	(80)	UNSIGNED	1	MDSTART_POSN	File start media position
129	(81)	UNSIGNED	1	MDEND_POSN	File end media position
130	(82)	SIGNED	2	MDVOLSEQ	VOLUME SEQUENCE NUMBER
132	(84)	CHARACTER	4	MDUNITAD	UNIT ADDRESS
136	(88)	CHARACTER	4	MDRECFM	RECORD FORMAT

## EDGSDREC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
140	(8C)	SIGNED	4	MDLRECL	LOGICAL RECORD LENGTH
144	(90)	SIGNED	4	MDBLKSZ	PHYSICAL BLOCK SIZE
148	(94)	SIGNED	4	MDBLKCNT	BLOCK COUNT
152	(98)	CHARACTER	8	MDOWNDSN	DATASET OWNER
160	(A0)	BITSTRING	1	MDSECLEV	SECURITY LEVEL
161	(A1)	BITSTRING	1	MDTRTCH	FROM JFCTRTCH - IDRC SUPPORT
		1... ..		*	
		.1.. ..		*	
		..1. ....		*	
		...1 .....		*	
		.... 1...		MDTCOMP	DSN USED 3480 IDRC
		.... .1..		MDTNCOMP	NO COMPACTION
162	(A2)	CHARACTER	2	MDFILSEQ	LOGICAL FILE SEQUENCE NO
164	(A4)	CHARACTER	8	MDTOKEN	RESERVED FOR RMM INTERNAL USE
172	(AC)	SIGNED	4	MDDSSIZE	DATASET SIZE IN KBYTES
176	(B0)	CHARACTER	4	MDLRDATE	DATE LAST READ - YYYYDDD
180	(B4)	CHARACTER	4	MDLWDATE	DATE LAST WRITTEN YYYYDDD
184	(B8)	BITSTRING	1	MDFLAG	FLAG BYTE
		1... ..		MDFCAT	DATA SET IS CATALOGED
		.1.. ..		MDFVRSR	DATA SET IS RET. BY VRS
		..1. ....		MDFNOTCAT	INDICATES DS WAS FOUND NOT TO BE CATALOGED DURING VRS
		...1 .....		*	RESERVED
		.... 1...		MDFABEND	ABEND IN PROCESS WHEN DATA SET CLOSED
		.... .1..		MDFOCEAB	ABEND PROBABLY IN O/C/EOV
		.... ..1.		MDFORCE	FORCE SUPPLIED
		.... ...1		*	RESERVED
185	(B9)	CHARACTER	2	*	RESERVED
187	(BB)	CHARACTER	1	MDVRSSTYP	MATCHING VRS TYPE, ONE OF: D-DATASET, S-SMSMC, V-VRSMV, M-DSN/MV
188	(BC)	CHARACTER	8	MDACSMC	MANAGEMENT CLASS NAME
196	(C4)	CHARACTER	8	MDVRSVAL	VRS MANAGEMENT VALUE
204	(CC)	CHARACTER	308	*	
204	(CC)	CHARACTER	92	MDLEV0VS	LEVEL 0 VARIABLE SECTION
204	(CC)	CHARACTER	308	*	
204	(CC)	CHARACTER	88	MDLEV1SC	LEVEL 1 SECTION
204	(CC)	CHARACTER	8	MDACSSG	STORAGE GROUP NAME
212	(D4)	CHARACTER	8	MDACSSC	STORAGE CLASS NAME
220	(DC)	CHARACTER	8	MDACSDC	DATA CLASS NAME
228	(E4)	CHARACTER	8	MDCRTJBN	CREATING JOBNAME
236	(EC)	CHARACTER	8	MDVRSJBN	MATCHING VRS JOB NAME MASK
244	(F4)	CHARACTER	4	MDRETDAT	RETENTION DATE
248	(F8)	CHARACTER	8	MDSTEPNM	CREATING STEP NAME
256	(100)	CHARACTER	8	MDDDDNAME	CREATING DDNAME
264	(108)	CHARACTER	8	MDPVSCH	PRIMARY VRS SUBSEQUENT SUBCHAIN NAME
272	(110)	CHARACTER	4	MDPVSDTE	PRIMARY VRS SUBSEQUENT SUBCHAIN START DATE
276	(114)	CHARACTER	4	MDEXPDT	EXPIRATION DATE
280	(118)	CHARACTER	4	MDEXPDTO	ORIGINAL EXPIRATION DATE

## Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
284	(11C)	CHARACTER	8	*	RESERVED
292	(124)	CHARACTER	220	*	
292	(124)	CHARACTER	136	MDLEV1VS	LEVEL 1 VARIABLE SECTION
292	(124)	CHARACTER	220	*	
292	(124)	CHARACTER	56	MDLEV2SC	LEVEL 2 SECTION
292	(124)	UNSIGNED	4	MDBLKIDS	FILE START BLOCKID
296	(128)	UNSIGNED	4	MDBLKIDE	FILE END BLOCKID
300	(12C)	CHARACTER	8	MDCPGM	Creating program name
308	(134)	CHARACTER	8	MDLPGM	Last use program name
316	(13C)	CHARACTER	8	MDLJOB	Last use job name
324	(144)	CHARACTER	8	MDLSTEP	Last use step name
332	(14C)	CHARACTER	8	MDLDDNM	Last use DD name
340	(154)	CHARACTER	4	MDLDEVN	Last use device number
344	(158)	CHARACTER	4	*	Reserved
348	(15C)	CHARACTER	164	MDVARSEC	VARIABLE LENGTH SECTION
348	(15C)	UNSIGNED	1	MDPDSNL	LENGTH OF PREVIOUS DSNAME
349	(15D)	UNSIGNED	1	MDNDSNL	LENGTH OF NEXT DSNAME
350	(15E)	UNSIGNED	1	MDVRSNML	LENGTH OF MATCHING VRS NAME
351	(15F)	UNSIGNED	1	MD2VMTCL	LENGTH OF SECOND. VRS FLDS
352	(160)	CHARACTER	44	MDPDSN	PREVIOUS DSNAME OR NULL
396	(18C)	CHARACTER	44	MDNDSN	NEXT DSNAME OR NULL
440	(1B8)	CHARACTER	44	MDVRSNAM	MATCHING VRS NAME
484	(1E4)	CHARACTER	28	MD2VMTCL	SECONDARY VRS DETAILS
484	(1E4)	CHARACTER	8	MD2VNAME	SECONDARY VRS MASK
492	(1EC)	CHARACTER	8	MD2VJBNM	SECONDARY VRS JOBNAME MASK
500	(1F4)	CHARACTER	8	MD2VSCH	SECONDARY VRS SUBSEQUENT SUBCHAIN NAME
508	(1FC)	CHARACTER	4	MD2VSDTE	SECONDARY VRS SUBSEQUENT SUBCHAIN START DATE
512	(200)	CHARACTER	0	MDCRCEND	END OF MDREC

## EDGSDREC Constants

Len	Type	Value	Name	Description
1	CHARACTER	D	MDTYPEID	DSN INFO ID SYMBOL

## EDGSDREC Cross Reference

Name	Offset	Hex Tag	Level
MDACSDC	DC		5
MDACSMC	BC		2
MDACSSC	D4		5
MDACSSG	CC		5
MDBLKCNT	94		2
MDBLKIDE	128		7
MDBLKIDS	124		7
MDBLKSZ	90		2
MDCFLG	74		2
MDCPGM	12C		7
MDCRDATE	3C		2

## EDGSDREC

Name	Offset	Hex Tag	Level
MDCRSID	44		2
MDCRTIME	40		2
MDCRTJBN	E4		5
MDDDDNAME	100		5
MDDEFLG	74	80	3
MDDSNAME	1		3
MDDSSEQ	34		3
MDDSSIZE	AC		2
MDDUMMY	74	08	3
MDEND_POSN	81		2
MDEXPDT	114		5
MDEXPDTO	118		5
MDFABEND	B8	08	3
MDFCAT	B8	80	3
MDFILSEQ	A2		2
MDFLAG	B8		2
MDFNOTCAT	B8	20	3
MDFOCEAB	B8	04	3
MDFORCE	B8	02	3
MDFVRSR	B8	40	3
MDLCDATE	54		2
MDLCSID	64		2
MDLCTIME	58		2
MDLCUID	5C		2
MDLDDNM	14C		7
MDLDEVN	154		7
MDLEV0VS	CC		3
MDLEV1SC	CC		4
MDLEV1VS	124		5
MDLEV2SC	124		6
MDLJOB	13C		7
MDLPGM	134		7
MDLRDATE	B0		2
MDLRECL	8C		2
MDLSTEP	144		7
MDLWDATE	B4		2
MDNDSN	18C		7
MDNDSNL	15D		7
MDOWNDSN	98		2
MDPAD1	36		3
MDPDLFLG	74	40	3
MDPDSN	160		7
MDPDSNL	15C		7
MDPVSCH	108		5
MDPVSDTE	110		5
MDRCCDS	4C		2
MDRCEND	200		2
MDREC	0		1
MDRECFM	88		2
MDRECLEV	75		2
MDRECLN	38		2
MDRECORD	0		2
MDRETDAT	F4		5
MDSECLEV	A0		2

## EDGSDREC

Name	Offset	Hex Tag	Level
MDSELFGL	74	10	3
MDSTART_POSN	80		2
MDSTEPNM	F8		5
MDTCOMP	A1	08	3
MDTNCOMP	A1	04	3
MDTOKEN	A4		2
MDTOTAL_BLKX	7C		2
MDTRTCH	A1		2
MDTYPE	0		3
MDUCDATE	6C		2
MDUCTIME	70		2
MDUNITAD	84		2
MDVARSEC	15C		6
MDVOLSEQ	82		2
MDVOLSER	2D		3
MDVRSJBN	EC		5
MDVRSNAM	1B8		7
MDVRSNML	15E		7
MDVRSSTYP	BB		2
MDVRSVAL	C4		2
MD2VJBNM	1EC		8
MD2VMTC	1E4		7
MD2VMTCL	15F		7
MD2VNAME	1E4		8
MD2VSCH	1F4		8
MD2VSDTE	1FC		8

## SMF Vital Record Specification Information: EDGSKREC

EDGSKREC maps the vital record specification information.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		MKREC	
0	(0)	SIGNED	4	MKRECORD(0)	* EDGMKREC Record
Key					
0	(0)	CHARACTER	56	MKKEY(0)	* Key of VRS record
0	(0)	CHARACTER	1	MKTYPE	* Record Type
		11.1 .1.1.		MKTYPEID	"C'K'" * VRS Record ID
1	(1)	CHARACTER	1	MKTYPE2	* VRS Type
		111. .1.1		MKTYPVOL	"C'V'" * Volume VRS
		11.1 .1.1		MKTYPNAM	"C'N'" * Name VRS
		11.. .1..		MKTYPDSN	"C'D'" * Data set VRS
2	(2)	CHARACTER	6	MKVOLSER(0)	* Volume Serial mask
2	(2)	CHARACTER	8	MKNAME(0)	* Name of VRS
2	(2)	CHARACTER	44	MKDSNAME	* Data set name mask
46	(2E)	CHARACTER	1	MKGENKEY	* Generic/Specific indicator
		1111 ....		MKGKSPEC	"C'0'" * Specific
		1111 ...1		MKGKGEN	"C'1'" * Generic
47	(2F)	CHARACTER	8	MKCRTJBN	* Job name
55	(37)	CHARACTER	1	MKPAD1	* Reserved (binary zeros)
Control Information					
56	(38)	SIGNED	2	MKRECLN	* Record length
58	(3A)	SIGNED	2		* Reserved

## EDGSKREC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
60	(3C)		4	MKCRDATE	* VRS create date - YYYYDDD
64	(40)		4	MKCRTIME	* VRS create time - HHMMSS
68	(44)	CHARACTER	8	MKCRSID	* Create system id
76	(4C)	CHARACTER	8	MKRCCDS	* Record create CDS id
84	(54)		4	MKLCDATE	* Last change date - YYYYDDD
88	(58)		4	MKLCTIME	* Last change time - HHMMSS
92	(5C)	CHARACTER	8	MKLCUID	* Last change user id
100	(64)	CHARACTER	8	MKLCSID	* Last change system id
108	(6C)		4	MKUCDATE	* Last "USER" change date
112	(70)		4	MKUCTIME	* Last "USER" change time
116	(74)	BITSTRING	1	MKCFLG	* Control flags 1
		1... ..		MKDELFLG	"X'80'" * Record deleted
		...1 ..		MKSELFLG	"X'10'" * Select - proc by satellite updt
117	(75)	BITSTRING	1	MKRECLEV	* Record level number
118	(76)	BITSTRING	6		* Reserved
Retention Type					
124	(7C)	CHARACTER	1	MKRETN	* Type of retention
		1... ..		MKRETNC	"X'80'" * Cycles
		.1.. ..		MKRETND	"X'40'" * Days
		..1. ....		MKRETNR	"X'20'" * LastReferenceDays
		...1 ....		MKRETNW	"X'10'" * WhileCataloged
		.... 1..		MKRETNX	"X'08'" * UntilExpired
		.... .1..		MKRETNXD	"X'04'" * ExtraDays
		.... ..1.		MKRETNCD	"X'02'" * ByDaysCycle
Data set name mask type					
125	(7D)	CHARACTER	1	MKDSNTYP	* Data set name mask type
		1... ..		MKDSNG	"X'80'" * Generation Data Group
		.1.. ..		MKDSNP	"X'40'" * Pseudo GDG
		..1. ....		MKDSND	"X'20'" * Standard data set name
		.... .1..		MKOPEN	"X'02'" * Mask is for open files
		.... ..1		MKABEND	"X'01'" * Mask is for abended files
Store Information					
126	(7E)	CHARACTER	1	MKSTORE	* Store requirement
		111. .1.1		MKSTOREV	"C'V'" * Vital record only
		11.1 1..1		MKSTORER	"C'R'" * Remote store
		11.1 ..11		MKSTOREL	"C'L'" * Local store
		11.. .1..		MKSTORED	"C'D'" * Distant store
		11.. ..1.		MKSTOREB	"C'B'" * Both: Local then Distant
127	(7F)	BITSTRING	1	MKRES1	* RESERVED
128	(80)	CHARACTER	8	MKLOC	* Location name - one of: * HOME, LOCAL, REMOTE, * DISTANT, CURRENT or * defined library name
VRS Control Information					
136	(88)	CHARACTER	8	MKNEXT	* Name of NEXTVRS or ANDVRS
144	(90)	SIGNED	4	MKCOUNT	* Nbr of Cycles, Days, Volumes
148	(94)	SIGNED	2	MKLPRTY	* Location Priority override
150	(96)	SIGNED	2	MKSTART	* Store start number
152	(98)	SIGNED	4	MKSTORE1	* Store keep number
156	(9C)	SIGNED	4	MKSTORE2	* Distant store keep number
160	(A0)	BITSTRING	1	MKFLAGA	* Flag-A

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		1... ..		MKFGAAND	"X'80'" * MKNEXT is ANDVRS() operand
		.1.. ..		MKFGANXT	"X'40'" * MKNEXT is NEXTVRS() operand
161	(A1)	BITSTRING	1	MKRLSOPT	* Release Options
		1... ..		MKRLSXDI	"X'80'" * Expiry Date Ignore
		.1.. ..		MKRLSSCI	"X'40'" * Scratch Immediate
162	(A2)	SIGNED	2	MKDELAY	* Number of days before move
164	(A4)	CHARACTER	8	MKOWNER	* VRS owner
172	(AC)		4	MKDELDAT	* VRS delete date (YYYYDDD)
176	(B0)	CHARACTER	30	MKDESC	* Description
206	(CE)	CHARACTER	6		* Reserved
212	(D4)	SIGNED	4	MKRCEND(0)	* End of MKRECORD
		11.1 .1..		MKRCLNG	"MKRCEND-MKRECORD" * Length of MKRECORD

### EDGSKREC Cross Reference

Name	Offset	Hex Tag	Level
MKABEND	7D	1	2
MKCFLG	74		2
MKCOUNT	90		2
MKCRDATE	3C		2
MKCRSID	44		2
MKCRTIME	40		2
MKCRJBN	2F		2
MKDELAY	A2		2
MKDELDAT	AC		2
MKDELFLG	74	80	2
MKDESC	B0		2
MKDSNAME	2		2
MKDSND	7D	20	2
MKDSNG	7D	80	2
MKDSNP	7D	40	2
MKDSNTYP	7D		2
MKFGAAND	A0	80	2
MKFGANXT	A0	40	2
MKFLAGA	A0		2
MKGENKEY	2E		2
MKGKGEN	2E	F1	2
MKGKSPEC	2E	F0	2
MKKEY	0		2
MKLCDATE	54		2
MKLCSID	64		2
MKLCTIME	58		2
MKLUID	5C		2
MKLOC	80		2
MKLPRTY	94		2
MKNAME	2		2
MKNEXT	88		2
MKOPEN	7D	2	2
MKOWNER	A4		2
MKPAD1	37		2

## EDGSKREC

Name	Offset	Hex Tag	Level
MKRCCDS	4C		2
MKRCEND	D4		2
MKRCLNG	D4	D4	2
MKRECLEV	75		2
MKRECLN	38		2
MKRECORD	0		2
MKRES1	7F		2
MKRETN	7C		2
MKRETNC	7C	80	2
MKRETNCD	7C	2	2
MKRETND	7C	40	2
MKRETNR	7C	20	2
MKRETNW	7C	10	2
MKRETNX	7C	8	2
MKRETNXD	7C	4	2
MKRLSOPT	A1		2
MKRLSSCI	A1	40	2
MKRLSXI	A1	80	2
MKSELFLG	74	10	2
MKSTART	96		2
MKSTORE	7E		2
MKSTOREB	7E	C2	2
MKSTORED	7E	C4	2
MKSTOREL	7E	D3	2
MKSTORER	7E	D9	2
MKSTOREV	7E	E5	2
MKSTORE1	98		2
MKSTORE2	9C		2
MKTYPDSN	1	C4	2
MKTYPE	0		2
MKTYPEID	0	D2	2
MKTYPE2	1		2
MKTYPNAM	1	D5	2
MKTYPVOL	1	E5	2
MKUCLDATE	6C		2
MKUCLTIME	70		2
MKVOLSER	2		2

## SMF Owner Information: EDGSOREC

EDGSOREC maps the owner information.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		MOREC	
START OF RMM MOREC					
0	(0)	SIGNED	4	MORECORD(0)	** EDGSOREC INFORMATION **
0	(0)	CHARACTER	56	(0)	** **
0	(0)	CHARACTER	1	MOTYPE	** OWNER INFO ID: 'O' **
		11.1 .11.		MOTYPEID	"C'O'" ** OWNER INFO ID SYMBOL **
1	(1)	CHARACTER	8	MOOWNER	** OWNER ID **



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
9	(9)	CHARACTER	6	MORTYPE	** OWNER INFO TYPE: ZEROS - OWNER DETAILS VOLSER - VOLUME/OWNER INFORMTN ONES - END OF VOLUME/OWNER **
15	(F)	CHARACTER	41	MOPAD1	** RESERVED - BINARY ZEROS **
CONTROL INFORMATION					
56	(38)	SIGNED	2	MORECLN	** RECORD LENGTH **
58	(3A)	SIGNED	2		** RESERVED **
60	(3C)		4	MOCRDATE	** OWNR CREATE DATE - YYYYDDD **
64	(40)		4	MOCRTIME	** OWNR CREATE TIME - HHMSST **
68	(44)	CHARACTER	8	MOCRSID	** CREATE SYSTEM ID **
76	(4C)	CHARACTER	8	MORCCDS	** RECORD CREATE CDS ID ** ** **
84	(54)		4	MOLCDATE	** LAST CHANGE DATE - YYYYDDD **
88	(58)		4	MOLCTIME	** LAST CHANGE TIME - HHMSST **
92	(5C)	CHARACTER	8	MOLCUID	** LAST CHANGE USER ID **
100	(64)	CHARACTER	8	MOLCSID	** LAST CHANGE SYSTEM ID **
108	(6C)		4	MOUCDATE	** LAST "USER" CHANGE DATE **
112	(70)		4	MOUCTIME	** LAST "USER" CHANGE TIME **
CONTROL FLAGS					
116	(74)	BITSTRING	1	MOCFLG	** CONTROL FLAGS 1 **
		1... ..		MODELFLG	"X'80'" ** RECORD DELETED **
		...1 ...		MOSELFLG	"X'10'" ** SELECT - PROC BY SATELLITE UPDT**
		.... 1...		MODUMMY	"X'08'" ** DUMMY RECORD - ALLOW TSO ADD **
117	(75)	BITSTRING	7		** RESERVED **
OWNER DETAILS					
124	(7C)	SIGNED	4	(0)	** ENSURE AREA F-WORD ALIGNED **
124	(7C)	CHARACTER	248	MOOWND(0)	** OWNER DETAILS **
124	(7C)	CHARACTER	20	MOOWNSUR	** OWNER SURNAME **
144	(90)	CHARACTER	20	MOOWNFST	** OWNER FIRST NAME **
164	(A4)	CHARACTER	40	MOOWNDEP	** OWNER DEPARTMENT **
204	(CC)	CHARACTER	40	MOOWNAD1	** OWNER ADDRESS LINE 1 **
244	(F4)	CHARACTER	40	MOOWNAD2	** OWNER ADDRESS LINE 2 **
284	(11C)	CHARACTER	40	MOOWNAD3	** OWNER ADDRESS LINE 3 **
324	(144)	CHARACTER	8	MOOWNTIN	** OWNER INTERNAL TELEPHONE NO **
332	(14C)	CHARACTER	20	MOOWNTEX	** OWNER EXTERNAL TELEPHONE NO **
352	(160)	CHARACTER	8	MOOWNUID	** OWNER USERID **
360	(168)	CHARACTER	8	MOOWNNOD	** OWNER NODENAME **
368	(170)	SIGNED	4	MOOWNVOL	** TOTAL NUMBER OF OWNED VOLUMES **
372	(174)	SIGNED	4	MOODETND(0)	** END OF OWNER DETAILS **
OWNED VOLUME DETAILS					

## EDGSOREC

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.11..1..		MOMXVOLS	"100" ** DEFINE THE MAXIMUM NUMBER ** OF VOLUMES IN VOLUME/OWNER INFORMATION **
124	(7C)	CHARACTER		MOVOLDDET(0)	** VOLUME DETAILS **
124	(7C)	SIGNED	2	MOVOLNO	** OWNED VOLS THIS INFORMATION **
126	(7E)	BITSTRING	2		** RESERVED **
OWNED VOLUME ENTRY					
128	(80)	CHARACTER	16	MOVOLENT(0)	** VOLUME ENTRY **
128	(80)	CHARACTER	6	MOVOLSER	** VOLUME SERIAL **
134	(86)	BITSTRING	2		** RESERVED **
136	(88)	CHARACTER	8	MOUNIT	** UNIT TYPE **
144	(90)	SIGNED	4	MOVOLENZ(0)	** ENTRY END MARKER **
144	(90)	CHARACTER		(0)	** AREA FOR REM. ENTRIES **
1728	(6C0)	SIGNED	4	MOVDETND(0)	** END OF VOLUME DETAILS **
CHECKS THAT EXPLICIT AREA LENGTHS MATCH SUM OF SUB-AREA DEFINED. LENGTH OF MOOWNDET MUST MATCH VALUE MOODETND-MOOWNDET. LENGTH OF MOVOLDDET MUST MATCH VALUE MOVDETND-MOVOLDDET. LENGTH OF MOVOLENT MUST MATCH VALUE MOVOLENZ-MOVOLENT. IF ANY OF THE CONDITIONS ARE NOT MET, ONE OF THE FOLLOWING 6 LA INSTRUCTIONS WILL FAIL WITH AN ASSEMBLY ERROR. LENGTH OF MOVOLENT MUST MATCH VALUE MOVOLENZ-MOVOLENT.					
END OF LENGTH CHECK INSTRUCTIONS					
END OF OWNER INFORMATION					
1728	(6C0)	SIGNED	4	MORCEND(0)	** END OF MOREC **
1728	(6C0)			MORCLNG	"MORCEND-MORECORD" ** MAX LENGTH OF MORECORD ** ** **
END OF RMM MOREC					

## EDGSOREC Cross Reference

Name	Offset	Hex Tag	Level
MOCFLG	74		2
MOCRDATE	3C		2
MOCRSID	44		2
MOCRTIME	40		2
MODELFLG	74	80	2
MODUMMY	74	8	2
MOLCDATE	54		2
MOLCSID	64		2
MOLCTIME	58		2
MOLCUID	5C		2
MOMXVOLS	174	64	2
MOODETND	174		2
MOOWNAD1	CC		2
MOOWNAD2	F4		2
MOOWNAD3	11C		2
MOOWNDEP	A4		2
MOOWNDET	7C		2
MOOWNER	1		2
MOOWNFST	90		2
MOOWNNOD	168		2

## EDGSOREC

Name	Offset	Hex Tag	Level
MOOWNSUR	7C		2
MOOWNTEX	14C		2
MOOWNTIN	144		2
MOOWNUID	160		2
MOOWNVOL	170		2
MOPAD1	F		2
MORCCDS	4C		2
MORCEND	6C0		2
MORCLNG	6C0	6C0	2
MORECLN	38		2
MORECORD	0		2
MORTYPE	9		2
MOSELFLG	74	10	2
MOTYPE	0		2
MOTYPEID	0	D6	2
MOUCDATE	6C		2
MOUCTIME	70		2
MOUNIT	88		2
MOVDETND	6C0		2
MOVOLDDET	7C		2
MOVOLENT	80		2
MOVOLENZ	90		2
MOVOLNO	7C		2
MOVOLSER	80		2

## SMF Software Product Information: EDGSPREC

EDGSPREC maps the software product information.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		MPREC	
START OF RMM MPREC					
0	(0)	SIGNED	4	MPRECORD(0)	** EDGSPREC INFORMATION **
0	(0)	CHARACTER	56	(0)	** **
0	(0)	CHARACTER	1	MPTYPE	** PP INFO ID: 'P' **
		11.1 .111		MPTYPEID	"C'P'" ** PP INFO ID SYMBOL **
1	(1)	CHARACTER	8	MPPPNUM	** PP NUMBER (NNNN-CCC) **
9	(9)	CHARACTER	6	MPVER	** VERSION/RELEASE/MOD NUMBER **
15	(F)	CHARACTER	41	MPPAD1	** RESERVED - BINARY ZEROS **
CONTROL INFORMATION					
56	(38)	SIGNED	2	MPRECLN	** RECORD LENGTH **
58	(3A)	SIGNED	2		** RESERVED **
60	(3C)		4	MPCRDATE	** PP CREATE DATE - YYYYDDD **
64	(40)		4	MPCRTIME	** PP CREATE TIME - HHMMSS **
68	(44)	CHARACTER	8	MPCRSID	** CREATE SYSTEM ID **
76	(4C)	CHARACTER	8	MPRCCDS	** RECORD CREATE CDS ID ** ** **
84	(54)		4	MPLCDATE	** LAST CHANGE DATE - YYYYDDD **

## EDGSPREC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
88	(58)		4	MPLCTIME	** LAST CHANGE TIME - HHMMSS **
92	(5C)	CHARACTER	8	MPLCUID	** LAST CHANGE USER ID **
100	(64)	CHARACTER	8	MPLCSID	** LAST CHANGE SYSTEM ID **
108	(6C)		4	MPUCDATE	** LAST "USER" CHANGE DATE **
112	(70)		4	MPUCTIME	** LAST "USER" CHANGE TIME **
CONTROL FLAGS					
116	(74)	BITSTRING	1	MPCFLG	** CONTROL FLAGS 1 **
		1... ..		MPDEFLG	"X'80" ** RECORD DELETED **
		...1 ...		MPSELFLG	"X'10" ** SELECT - PROC BY SATELLITE UPDT**
		.... 1...		MPDUMMY	"X'08" ** DUMMY RECORD - ALLOW TSO ADD **
117	(75)	BITSTRING	7		** RESERVED **
PROGRAM PRODUCT DETAILS					
124	(7C)	CHARACTER	8	MPPPOWN	** PROGRAM PRODUCT OWNER ID **
132	(84)	CHARACTER	30	MPPPPNAME	** PROGRAM PRODUCT NAME **
162	(A2)	CHARACTER	30	MPPPDDESC	** PROGRAM PRODUCT DESCRIPTION **
192	(C0)	BITSTRING	64		** RESERVED **
PROGRAM PRODUCT VOLUME DETAILS					
256	(100)	CHARACTER	8164	MPVOLDET(0)	** VOLUME DETAILS **
256	(100)	SIGNED	2	MPVOLNO	** NO OF PP VOLS **
		1111 1111		MPVOLMAX	"255" ** MAX NUMBER OF PP VOLS **
258	(102)	BITSTRING	2		** RESERVED **
PROGRAM PRODUCT VOLUME ENTRY					
260	(104)	CHARACTER	32	MPVOLENT(0)	** VOLUME ENTRY **
260	(104)	CHARACTER	6	MPVOLSER	** VOLUME SERIAL **
266	(10A)	CHARACTER	6	MPRACK	** RACK NUMBER **
272	(110)	CHARACTER	4	MPFEAT	** FEATURE CODE **
276	(114)	CHARACTER	8	MPUNIT	** UNIT TYPE **
284	(11C)	CHARACTER	8		** RESERVED **
292	(124)	CHARACTER	32	(254)	** RESERVED FOR REMAINING ENTRIES **
END OF PROGRAM PRODUCT INFORMATION					
8420	(20E4)	SIGNED	4	MPRCEND(0)	** END OF MPREC **
8420	(20E4)			MPRCLNG	"MPRCEND-MPRECORD" ** MAX LENGTH OF MPRECORD ** ** **
END OF RMM MPREC					

## EDGSPREC Cross Reference

Name	Hex Offset	Hex Value	Level
MPCFLG		74	2
MPCRCDATE		3C	2
MPCRSID		44	2
MPCRTIME		40	2
MPDEFLG		74	80
MPDUMMY		74	8
MPFEAT		110	2

## EDGSPREC

Name	Hex Offset	Hex Value	Level	
MPLCDATE		54	2	
MPLCSID		64	2	
MPLCTIME		58	2	
MPLCUID		5C	2	
MPPAD1		F	2	
MPPPDESC		A2	2	
MPPPNAME		84	2	
MPPPNUM		1	2	
MPPPOWN		7C	2	
MPRACK		10A	2	
MPRCCDS		4C	2	
MPRCEND		20E4	2	
MPRCLNG		20E4	20E4	2
MPRECLN		38	2	
MPRECORD		0	2	
MPSELFLG		74	10	2
MPTYPE		0	2	
MPTYPEID		0	D7	2
MPUCDATE		6C	2	
MPUCTIME		70	2	
MPUNIT		114	2	
MPVER		9	2	
MPVOLDET		100	2	
MPVOLENT		104	2	
MPVOLMAX		100	FF	2
MPVOLNO		100	2	
MPVOLSER		104	2	

## SMF Library Shelf Location Information: EDGSRREC

EDGSRREC maps the library shelf location information.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		MRREC	
START OF RMM MRREC					
0	(0)	SIGNED	4	MRRECORD(0)	** EDGSRREC INFORMATION **
0	(0)	CHARACTER	56	(0)	** **
0	(0)	CHARACTER	1	MRTYPE	** RACK INFO ID: **
		11.. .1.1		MRTYPEE	"C'E" ** 'E' - EMPTY RACK **
		11.. .11.		MRTYPEF	"C'F" ** 'F' - FREE/SCRATCH RACK **
		111. .1..		MRTYPEU	"C'U" ** 'U' - IN USE RACK **
1	(1)	BITSTRING	1		** RESERVED **
2	(2)	CHARACTER	8	MRMEDIA	** MEDIA NAME **
		.... .1.		MRUNIT	"MRMEDIA,8" UNIT TYPE
10	(A)	CHARACTER	6	MRRACK	**RACK NUMBER **
16	(10)	BITSTRING	40	MRPAD1	** RESERVED BINARY ZEROS**
CONTROL INFORMATION					
56	(38)	SIGNED	2	MRRECLN	** RECORD LENGTH **
58	(3A)	SIGNED	2		** RESERVED **
60	(3C)		4	MRCRDATE	** RACK CREATE DATE - YYYYDDD **

## EDGSRREC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
64	(40)		4	MRCRTIME	** RACK CREATE TIME - HHMMSS **
68	(44)	CHARACTER	8	MRCRSID	** CREATE SYSTEM ID **
76	(4C)	CHARACTER	8	MRRCCDS	** RECORD CREATE CDS ID ** **
84	(54)		4	MRLCDATE	** LAST CHANGE DATE - YYYYDD **
88	(58)		4	MRLCTIME	** LAST CHANGE TIME - HHMMSS **
92	(5C)	CHARACTER	8	MRLCUID	** LAST CHANGE USER ID **
100	(64)	CHARACTER	8	MRLCSID	** LAST CHANGE SYSTEM ID **
108	(6C)		4	MRUCDATE	** LAST "USER" CHANGE DATE **
112	(70)		4	MRUETIME	** LAST "USER" CHANGE TIME **
FLAG BYTES					
116	(74)	BITSTRING	1	MRCFLG	** CONTROL FLAGS 1 **
		1... ..		MRDELFLG	"X'80'" ** RECORD DELETED **
		...1 ...		MRSELFLG	"X'10'" ** SELECT - PROC BY SATELLITE UPDT**
		.... 1...		MRDUMMY	"X'08'" ** DUMMY RECORD - ALLOW TSO ADD **
117	(75)	BITSTRING	7		** RESERVED **
RACK INFORMATION					
124	(7C)	CHARACTER	6	MRVOLSER	** ASSIGNED VOLSER OR ZEROS ** ** **
130	(82)	CHARACTER	10		** RESERVED **
END OF RACK INFORMATION					
140	(8C)	SIGNED	4	MRCEND(0) MRRCLNG	** END OF MRRC ** "MRCEND-MRRECORD" ** MAX LENGTH OF MRRECORD ** ** **
END OF RMM MRREC					

## EDGSRREC Cross Reference

Name	Offset	Hex Tag	Level
MRCFLG	74		2
MRCRDATE	3C		2
MRCRSID	44		2
MRCRTIME	40		2
MRDELFLG	74	80	2
MRDUMMY	74	8	2
MRLCDATE	54		2
MRLCSID	64		2
MRLCTIME	58		2
MRLCUID	5C		2
MRMEDIA	2		2
MRPAD1	10	0	2
MRRACK	A		2
MRRCCDS	4C		2
MRCEND	8C		2
MRRCLNG	8C	8C	2
MRRECLN	38		2
MRRECORD	0		2
MSSELFLG	74	10	2

## EDGSRREC

Name	Offset	Hex Tag	Level
MRTYPE	0		2
MRTYPEE	0	C5	2
MRTYPEF	0	C6	2
MRTYPEU	0	E4	2
MRUCDATE	6C		2
MRUCTIME	70		2
MRUNIT	2	2	2
MRVOLSER	7C		2

## SMF Storage Location Shelf Location Information: EDGSSREC

EDGSSREC maps the storage location bin information.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE		MSREC	
START OF RMM MSREC					
0	(0)	SIGNED	4	MSRECORD(0)	** EDGSSREC INFORMATION **
0	(0)	CHARACTER	56	(0)	** **
0	(0)	CHARACTER	1	MSTYPE	** STORE INFO ID: **
		11.1 1..1		MSTYPER	"C'R" ** 'R' - EMPTY BIN **
		111. ..1.		MSTYPES	"C'S" ** 'S' - ASSIGNED BIN **
1	(1)	CHARACTER	1	MSRMSTID	** REMOTE STORE ID: **
		11.. .1..		MSSTIDD	"C'D" ** 'D' - DISTANT STORE **
		11.1 ..11		MSSTIDL	"C'L" ** 'L' - LOCAL STORE **
		11.1 1..1		MSSTIDR	"C'R" ** 'R' - REMOTE STORE **
		111. .1..		MSSTIDU	"C'U" ** 'U' - USER DEFINED STORE
2	(2)	BITSTRING	8	MSSRSVD1	** RESERVED **
10	(A)	CHARACTER	6	MSBINNO	** BIN NUMBER **
16	(10)	BITSTRING	40	MSPAD1	** RESERVED - BINARY ZEROS **
56	(38)	CHARACTER	8	MSUSTNAM	** INSTALLATION DEFINED STORE ** NAME
64	(40)	CHARACTER	8	MSUMEDNM	** INSTALLATION DEFINED STORE ** BIN MEDIA NAME
72	(48)	CHARACTER	6	MSUBINNO	** INSTALLATION DEFINED STORE ** BIN NUMBER
CONTROL INFORMATION					
78	(4E)	SIGNED	2	MSRECLN	** RECORD LENGTH **
80	(50)	SIGNED	2		** RESERVED **
82	(52)		4	MSCRDATE	** CREATE DATE - YYYYDDD **
86	(56)		4	MSCRTIME	** CREATE TIME - HHMSST **
90	(5A)	CHARACTER	8	MSCRSID	** CREATE SYSTEM ID **
98	(62)	CHARACTER	8	MSRCCDS	** RECORD CREATE CDS ID ** **
106	(6A)		4	MSLCDATE	** LAST CHANGE DATE - YYYYDDD **
110	(6E)		4	MSLCTIME	** LAST CHANGE TIME - HHMSST **
114	(72)	CHARACTER	8	MSLCUID	** LAST CHANGE USER ID **
122	(7A)	CHARACTER	8	MSLCSID	** LAST CHANGE SYSTEM ID **
130	(82)		4	MSUCDATE	** LAST "USER" CHANGE DATE **
134	(86)		4	MSUCTIME	** LAST "USER" CHANGE TIME **

## EDGSSREC

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
FLAG BYTES					
138	(8A)	BITSTRING	1	MSCFLG	** CONTROL FLAGS 1 **
		1... ..		MSDELFLG	"X'80'" ** RECORD DELETED **
		...1 ...		MSSELFLG	"X'10'" ** SELECT - PROC BY SATELLITE UPDT**
		... 1...		MSDUMMY	"X'08'" ** DUMMY RECORD - ALLOW TSO ADD **
139	(8B)	BITSTRING	7		** RESERVED **
STORE INFORMATION					
146	(92)	CHARACTER	6	MSVOLSER	** ASSIGNED VOLSER OR ZEROS ** * * * *
152	(98)	CHARACTER	10		** RESERVED **
END OF DISASTER STORE BIN INFORMATION					
164	(A4)	SIGNED	4	MSRCEND(0) MSRCLNG	** END OF MSRC ** "MSRCEND-MSRECORD" ** MAX LENGTH OF MSRECORD ** * * * *
END OF RMM MSREC					

## EDGSSREC Cross Reference

Name	Offset	Hex Tag	Level
MSBINNO	A		2
MSCFLG	8A		2
MSCRDATE	52		2
MSCRSID	5A		2
MSCRTIME	56		2
MSDELFLG	8A	80	2
MSDUMMY	8A	8	2
MSLDATE	6A		2
MSLCSID	7A		2
MSLCTIME	6E		2
MSLCUID	72		2
MSPAD1	10	0	2
MSRCCDS	62		2
MSRCEND	A4		2
MSRCLNG	A4	A4	2
MSRECLN	4E		2
MSRECORD	0		2
MSRMSTID	1		2
MSSELFLG	8A	10	2
MSSRSVD1	2	0	2
MSSTIDD	1	C4	2
MSSTIDL	1	D3	2
MSSTIDR	1	D9	2
MSSTIDU	1	E4	2
MSTYPE	0		2
MSTYPER	0	D9	2
MSTYPES	0	E2	2
MSUBINNO	48		2



Name	Offset	Hex Tag	Level
MSUCDATE	82		2
MSUCTIME	86		2
MSUMEDNM	40		2
MSUSTNAM	38		2
MSVOLSER	92		2

## SMF Volume Information: EDGSVREC

EDGSVREC maps the volume information.

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
0	(0)	STRUCTURE	752	MVREC	
0	(0)	CHARACTER	0	MVRECORD	EDGSVREC INFORMATION
0	(0)	CHARACTER	56	MVKEY	
0	(0)	CHARACTER	1	MVTYPE	'V' - VOLUME INFO TYPE
1	(1)	BITSTRING	1	*	RESERVED
2	(2)	CHARACTER	6	MVVOLSER	VOLUME SERIAL NUMBER
8	(8)	CHARACTER	48	MVPAD1	RESERVED - BINARY ZEROS
56	(38)	SIGNED	2	MVRECLN	RECORD LENGTH
58	(3A)	SIGNED	2	*	RESERVED
60	(3C)	CHARACTER	4	MVCRDATE	VOL CREATE DATE - YYYYDDD
64	(40)	CHARACTER	4	MVCRTIME	VOL CREATE TIME - HHMMSS
68	(44)	CHARACTER	8	MVCRSID	CREATE SYSTEM ID
76	(4C)	CHARACTER	8	MVRCCDS	RECORD CREATE CDS ID
84	(54)	CHARACTER	4	MVLCDATE	LAST CHANGE DATE - YYYYDDD
88	(58)	CHARACTER	4	MVLCIME	LAST CHANGE TIME - HHMMSS
92	(5C)	CHARACTER	8	MVLCUID	LAST CHANGE USER ID
100	(64)	CHARACTER	8	MVLC SID	LAST CHANGE SYSTEM ID
108	(6C)	CHARACTER	4	MVUCDATE	LAST "USER" CHANGE DATE
112	(70)	CHARACTER	4	MVUCTIME	LAST "USER" CHANGE TIME
116	(74)	BITSTRING	1	MVCFLG	CONTROL FLAGS 1
		1... ....		MVDELFLG	RECORD DELETED
		.1.. ....		*	
		..1. ....		*	
		...1 ....		MVSELFLG	SELECT - PROC BY SATELLITE UPDT
		.... 1...		MVDUMMY	DUMMY RECORD - ALLOW TSO ADD
117	(75)	BITSTRING	1	MVRECLEV	RECORD LEVEL NUMBER
118	(76)	CHARACTER	6	*	RESERVED
124	(7C)	CHARACTER	4	MVEXPDTO	EXPIRATION DATE - ORIGINAL
128	(80)	CHARACTER	4	MVEXPDT	EXPIRATION DATE - YYYYDDD
132	(84)	BITSTRING	1	MVRDEN	COPY OF JFCBDEN
133	(85)	CHARACTER	1	MVDEN	RECORDING DENSITY:
134	(86)	SIGNED	2	MVDSNNO	NUMBER OF DATASETS ON VOLUME
136	(88)	SIGNED	4	MVTUSE	TAPE USAGE IN KBYTES
140	(8C)	SIGNED	2	MVUSE	VOLUME USE COUNT
142	(8E)	BITSTRING	1	MVSTSTAT	STORE STATUS:
143	(8F)	BITSTRING	1	MVRSREL	VRS RELEASE OPTIONS
		1... ....		MVVRFXDI	EXPIRY DATE IGNORE
		.1.. ....		MVVRFSCI	SCRATCH IMMEDIATE
		..11 1111		*	RESERVED

## EDGSVREC

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
FLAG BITS IN MVRSREL SHOULD MATCH MKRLSOPT BIT SETTINGS.					
144	(90)	SIGNED	2	MVLABNO1	LABEL NUMBER OF 1ST FILE
146	(92)	CHARACTER	4	MVTDSI	TAPE MEDIA TYPE INFORMATION
146	(92)	BITSTRING	1	MVMEDREC	RECORDING FORMAT. ONE OF: X'00' - NON CARTRIDGE X'01' - 18TRACK X'02' - 36TRACK X'03' - 128TRACK X'04' - 256TRACK
147	(93)	BITSTRING	1	MVMEDTY	TAPE MEDIA TYPE. ONE OF: X'00' - NON-CARTRIDGE X'01' - CST X'02' - ECCST X'03' - HPCT X'04' - EHPCT
148	(94)	BITSTRING	1	MVMEDCMP	TAPE COMPACTION. ONE OF: X'00' - UNKNOWN X'01' - NOT COMPACTED X'02' - COMPACTED
149	(95)	BITSTRING	1	MVMEDATR	TAPE SPECIAL ATTRIBUTES. ONE OF: X'00' - NONE X'01' - 18 TRACK READ ONLY
150	(96)	CHARACTER	1	MVSTORID	STORE LOCATION ID:
151	(97)	CHARACTER	1	MVNSTRID	NEW STORE LOCATION
152	(98)	CHARACTER	8	MVNLOC	DESIRED LOCATION NAME
160	(A0)	SIGNED	4	MVSTBIN	STORE BIN NUMBER
164	(A4)	SIGNED	4	MVOBIN	OLD BIN NUMBER
168	(A8)	CHARACTER	4	MVSTDATE	DATE STORED (YYYYDDD)
172	(AC)	CHARACTER	4	MVLUDEV	LAST USED DEVICE
176	(B0)	CHARACTER	8	MVLONLOC	LOAN LOCATION
184	(B8)	CHARACTER	8	MVOLNLOC	OLD LOAN LOCATION
192	(C0)	CHARACTER	4	MVLRDDAT	DATE VOLUME LAST READ (YYYYDDD)
196	(C4)	CHARACTER	4	MVLWTDAT	DATE VOLUME LAST WRITTEN
200	(C8)	CHARACTER	8	MVASDATM	ASSIGNED DATE AND TIME
200	(C8)	CHARACTER	4	MVASDATE	ASSIGNED DATE (YYYYDDD)
204	(CC)	CHARACTER	4	MVASTIME	ASSIGNED DATE (HHMMSS)
208	(D0)	CHARACTER	8	MVOWNID	VOLUME OWNER USERID
216	(D8)	CHARACTER	8	MVCRUID	CREATING USERID
224	(E0)	CHARACTER	8	MVCRJOB	CREATING JOBNAME
232	(E8)	BITSTRING	1	MVSECLEV	SECURITY CLASSIFICATION LEVEL
233	(E9)	BITSTRING	1	MVFLGAX	FLAGS 'A' - STATUS EXTENSION
		1... ....		MVGVCFLG	SCRATCH VOL CLAIMED VIA GETVOL
		.1.. ....		MVXINFLG	SCRATCH VOLUME HAS NEVER BEEN INITIALISED
		..1. ....		MVINIFLG	SCRATCH VOLUME WITH INIT ACTION PENDING
		...1 ....		MVENTFLG	SCRATCH VOLUME WAITING TO ENTER ATL
		.... 1...		MVFABEND	ABEND IN PROCESS WHEN A DATA SET CLOSED
		.... .1..		MVFOCEAB	ABEND PROBABLY IN O/C/EOV
		.... ..1.		MVATIFLG	INIT REQUIRED FOR ATL VOL
		.... ...1		MVFORCE	FORCE SUPPLIED
234	(EA)	SIGNED	2	MVVOLSEQ	VOLUME SEQUENCE NUMBER
236	(EC)	CHARACTER	1	*	
236	(EC)	BITSTRING	1	MVFLGA	FLAGS 'A' - STATUS
		1... ....		MVMSTFLG	VOLUME IS MASTER

Offsets		Type	Length	Name (Dim)	Description
Decimal	Hex				
		.1.. ....		MVRLSFLG	VOLUME PENDING RELEASE
		..1. ....		MVVRFLG	VITAL RECORD - DO NOT RELEASE
		...1 ....		MVASSFLG	USER TAPE (ASSIGNED BY LIB)
		.... 1...		MVLONFLG	TAPE IS ON LOAN
		.... .1..		MVOPNFLG	TAPE OPENED AND NOT YET CLOSED
		.... ..1.		MVSCRFLG	VOLUME IS SCRATCH
		.... ...1		MVOCEFLG	VOLUME RECORDED BY O/C/EOV
236	(EC)	BITSTRING 1111 111.	1	* *	FLAGS 'A' - STATUS
		.... ...1		MVEXRFLG	STV RECORDED BY EXPORT
237	(ED)	BITSTRING 1... ....	1	MVFLGB MVDEFRET	FLAGS 'B' DEFAULT RETENTION PERIOD USED
		.1.. ....		MVPPTAPE	PROGRAM PRODUCT TAPE
		..1. ....		MVNLTAPE	LABEL TYPE IS NL
		...1 ....		MVALTAPE	LABEL TYPE IS AL
		.... 1...		MVSLTAPE	LABEL TYPE IS SL
		.... .1..		*	
		.... ..1.		MVBLTAPE	TAPE LAST WRITTEN USING BLP
		.... ...1		MVULTAPE	SL OR AL TAPE HAS USER LABELS
238	(EE)	BITSTRING 1... ....	1	MVFLGC MVRETSCR	FLAGS 'C' - RELEASE ACTIONS RETURN TO SCRATCH POOL -DEFAULT
		.111 1111		MVRELACT	RELEASE ACTIONS
		.1.. ....		MVREPREL	REPLACE TAPE ON RELEASE
		..1. ....		MVREINIT	REINITIALISE
		...1 ....		MVDEGAUS	DEGAUS/SECURITY ERASE
		.... 1...		MVROWNER	RETURN TO OWNER
		.... .1..		MVNOWNER	NOTIFY OWNER
		.... ..11		*	RESERVED
239	(EF)	BITSTRING 1... ....	1	MVFLGD MVOREAD MVOUPD MVOALT MVPROTR MVPROTU MVMVSUSE MVMVUSE MVNODSNR	FLAGS 'D' - ACCESS OWNER MAY READ VOLUME OWNER MAY UPDATE VOLUME OWNER MAY ALTER VOLUME READ-ONLY PROTECTION UPDATE PROTECTION MAY BE USED ON MVS SYSTEMS MAY BE USED ON VM SYSTEMS ONLY FIRST DATA SET RECORDED
		.1.. ....			
		..1. ....			
		...1 ....			
		.... 1...			
		.... .1..			
		.... ..1.			
		.... ...1			
240	(F0)	BITSTRING 1... ....	1	MVFLGE MVRETSCR MVRELACT MVREPREL MVREINIT MVDEGAUS MVROWNER MVNOWNER *	FLAGS 'E' - ACTIONS PENDING
		.111 1111			
		.1.. ....			
		..1. ....			
		...1 ....			
		.... 1...			
		.... .1..			
		.... ..11			
241	(F1)	BITSTRING	1	MVLTYP	COPY OF JFCBLTYP

## EDGSVREC

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
242	(F2)	CHARACTER	2	MVALVERS	ANSI LABEL VERSION IN BINARY
242	(F2)	UNSIGNED	1	MVALCUR	CURRENT LABEL VERSION
243	(F3)	UNSIGNED	1	MVALREQ	REQUIRED LABEL VERSION
244	(F4)	CHARACTER	8	MVMEDIA	INSTALLATIONS MEDIA NAME
244	(F4)	CHARACTER	8	MVUNIT	UNIT TYPE
252	(FC)	CHARACTER	6	MVRACK	RACK NUMBER
258	(102)	CHARACTER	6	MVPVOL	PREVIOUS VOLSER IF MULTI-VOL
264	(108)	CHARACTER	6	MVNVOL	NEXT VOLSER IF MULTI-VOL
270	(10E)	CHARACTER	4	MVUCBTYP	COPY OF UCBTYP FIELD FROM UCB
274	(112)	CHARACTER	8	MVERRCNT	ERROR COUNTS
274	(112)	SIGNED	2	MVTRERR	TEMPORARY READ ERRORS
276	(114)	SIGNED	2	MVTWERR	TEMPORARY WRITE ERRORS
278	(116)	SIGNED	2	MVPRERR	PERMANENT READ ERRORS
280	(118)	SIGNED	2	MVPWERR	PERMANENT WRITE ERRORS
282	(11A)	CHARACTER	4	*	RESERVED
286	(11E)	CHARACTER	18	MVPPDATA	PROGRAM PRODUCT DATA
286	(11E)	CHARACTER	8	MVPPNUM	PROGRAM PRODUCT NUMBER
294	(126)	CHARACTER	6	MVVER	VERSION/RELEASE/MOD NUMBER
300	(12C)	CHARACTER	4	MVFEAT	FEATURE CODE
304	(130)	BITSTRING	1	MVTRTCH	FROM JFCTRTRCH - IDRC SUPPORT
		1... ....		*	
		.1.. ....		*	
		..1. ....		*	
		...1 ....		*	
		.... 1...		MVTCOMP	DSN COMPACTION
		.... .1..		MVTNCOMP	NO COMPACTION
305	(131)	CHARACTER	6	MVTPVOL	RESERVED FOR O/C/EOV
311	(137)	CHARACTER	8	MVTOKEN	RESERVED FOR O/C/EOV
319	(13F)	BITSTRING	1	MVLOCFLG	FLAG BYTE FOR LIBRARY SUPPORT
		1... ....		MVTRNFLG	INDICATES VOLUME IN TRANSIT. WHEN NOT SET, VOLUME IS IN LOCATION.
		.1.. ....		MVMVMODE	MOVE MODE B'0' - AUTOMOVE B'1' - MANUALMOVE
		..11 ....		*	
		.... 1111		MVLTYFLG	LOCATION TYPE - 4 BITS B'0000' SHELF LOCATION B'0001' STORAGE LOCATION B'0010' MANUAL LIBRARY B'0011' AUTOMATIC LIBRARY B'0100' STORE WITH BINS B'0101' STORE WITHOUT BINS
320	(140)	CHARACTER	2	MVTYPFLG	FLAGS FOR LOCATION TYPE INFORMATION
320	(140)	BITSTRING	1	*	

Offsets		Type	Length	Name (Dim)	Description
Decimal	Hex				
		1111 ....		MVNTYFLG	LOCATION TYPE - 4 BITS B'0000' SHELF LOCATION B'0001' STORAGE LOCATION B'0010' MANUAL LIBRARY B'0011' AUTOMATIC LIBRARY B'0100' STORE WITH BINS B'0101' STORE WITHOUT BINS
		.... 1111		MVDTYFLG	LOCATION TYPE - 4 BITS B'0000' SHELF LOCATION B'0001' STORAGE LOCATION B'0010' MANUAL LIBRARY B'0011' AUTOMATIC LIBRARY B'0100' STORE WITH BINS B'0101' STORE WITHOUT BINS
321	(141)	BITSTRING 1111 ....	1	MVHTYFLG MVHTYFLG	LOCATION TYPE - 4 BITS B'0000' SHELF LOCATION B'0001' STORAGE LOCATION B'0010' MANUAL LIBRARY B'0011' AUTOMATIC LIBRARY B'0100' STORE WITH BINS B'0101' STORE WITHOUT BINS
322	(142)	SIGNED	2	MVRQPRTY	REQ. LOCATION PRIORITY
324	(144)	SIGNED	4	MVCAPACITY	Volume capacity in MBytes (for uncompressed data)
328	(148)	CHARACTER	8	MVHLOC	HOME LOCATION NAME
336	(150)	CHARACTER	8	MVSGNAME	STORAGE GROUP NAME
344	(158)	CHARACTER	8	MVLOC	LOCATION NAME
352	(160)	CHARACTER	8	MVDEST	DESTINATION NAME
360	(168)	CHARACTER	8	MVOLOC	PREVIOUS LOCATION NAME
368	(170)	CHARACTER	6	MVUSBIN	SHELF MANAGED STORE BIN NUMBER
374	(176)	CHARACTER	8	MVUBMDN	SHELF MANAGED STORE BIN MEDIA NAME
382	(17E)	CHARACTER	6	MVUSOBIN	SHELF MANAGED STORE OLD BIN NUMBER
388	(184)	CHARACTER	8	MVUOBMDN	SHELF MANAGED STORE OLD BIN MEDIA NAME
396	(18C)	CHARACTER	4	MVRETDAT	RETENTION DATE
400	(190)	CHARACTER	6	*	RESERVED
406	(196)	CHARACTER	6	*	RESERVED
412	(19C)	CHARACTER	8	MVLCTOKN	VOLUME LAST CHANGE TOKEN
420	(1A4)	UNSIGNED	1	MVVOLTYPE	VOLUME TYPE
421	(1A5)	BITSTRING 1... .... .111 1111	1	MVFLGF MVRBYSET * *	FLAGS 'F' RETAINED BY VOLUME/SET RESERVED RESERVED
422	(1A6)	CHARACTER	9	*	RESERVED
431	(1AF)	BITSTRING	1	MVLAST_POSN	Last file end media position
432	(1B0)	UNSIGNED	4	MV_STV_VOLCOUNT	VOLUME COUNT
422	(1A6)	CHARACTER	8	MVDCRSID	1ST DATA SET CREATE SYSID
430	(1AE)	CHARACTER	16	MVCONTAINER	CONTAINER
430	(1AE)	CHARACTER	6	MVCONTAINER_STV	STACKED VOLUME
446	(1BE)	CHARACTER	16	MVOLD_CONTAINER	OLD CONTAINER
462	(1CE)	CHARACTER	8	MVEXPTOKEN	EXPORT TOKEN
470	(1D6)	CHARACTER	9	*	RESERVED

## EDGSVREC

Offsets					
Decimal	Hex	Type	Length	Name (Dim)	Description
479	(1DF)	UNSIGNED	1	MVLAST_POSN	LAST FILE END MEDIA POS
480	(1E0)	UNSIGNED	4	MV_STV_VOLCOUNT	VOLUME COUNT
484	(1E4)	CHARACTER	268	MVVARSEC	VARIABLE LENGTH SECTION
484	(1E4)	UNSIGNED	1	MVDSN1L	LENGTH FIRST DSN ON VOLUME
485	(1E5)	UNSIGNED	1	MVDSNLL	LENGTH LAST DSN ON VOLUME
486	(1E6)	UNSIGNED	1	MVACCLN	LENGTH OF A/C FIELD (OR 0)
487	(1E7)	UNSIGNED	1	MVUSELEN	LENGTH OF USER DATE (OR 0)
488	(1E8)	UNSIGNED	1	MVACCLST	NUM OF ACCESS LIST ENTRIES
489	(1E9)	CHARACTER	7	*	RESERVED
496	(1F0)	CHARACTER	44	MVDSN1	DSNAME OF FIRST FILE
540	(21C)	CHARACTER	44	MVDSNL	DSNAME OF LAST FILE
584	(248)	CHARACTER	40	MVACCINF	ACCOUNTING INFORMATION
624	(270)	CHARACTER	30	MVDESC	USER DESCRIPTION
624	(270)	CHARACTER	30	MVUSEFLD	USER DESCRIPTION
654	(28E)	CHARACTER	2	*	RESERVED
656	(290)	CHARACTER	96	MVAUTIDS	AUTHORISED USER IDS AREA
656	(290)	CHARACTER	8	MVAUTHID	FIRST AUTH. USER ID SLOT
752	(2F0)	CHARACTER	0	MVAUTHND	AUTH FIELD END MARKER
752	(2F0)	CHARACTER	0	MVRCEND	END OF MVRC

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	V	MVTYPEID	VOLUME INFO ID SYMBOL
1	CHARACTER	3	MVDEN3	'3' - 1600BPI
1	CHARACTER	4	MVDEN4	'4' - 6250BPI
1	CHARACTER	9	MVDEN9	'9' - 3480
1	CHARACTER	C	MVDENC	'C' - 3480 COMPACTED (IDRC)
1	CHARACTER	*	MVDENU	'*' - UNDEFINED
1	HEX	01	MVSTS001	1 - TAPE LIB TO REMOTE STORE
1	HEX	02	MVSTS002	2 - REMOTE STORE TO TAPE LIB
1	HEX	03	MVSTS003	3 - TAPE LIB TO LOCAL STORE
1	HEX	04	MVSTS004	4 - LOCAL STORE TO TAPE LIB
1	HEX	05	MVSTS005	5 - LOCAL STORE TO DISTANT
1	HEX	06	MVSTS006	6 - TAPE LIB TO DISTANT STORE
1	HEX	07	MVSTS007	7 - DISTANT STORE TO TAPE LIB

## Constants for EDGSVREC

Len	Type	Value	Name	Description
1	HEX	09	MVSTS009	9 - STORE LOCATION VALID
1	CHARACTER	D	MVSTIDD	D - DISTANT STORE
1	CHARACTER	L	MVSTIDL	L - LOCAL STORE
1	CHARACTER	R	MVSTIDR	R - REMOTE STORE
1	CHARACTER	T	MVSTIDT	T - TAPE LIBRARY
1	NUMB HEX	00	MVVOLTYPE_PHYSICAL	
1	NUMB HEX	01	MVVOLTYPE_LOGICAL	
1	NUMB HEX	02	MVVOLTYPE_STACKED	

## EDGSVREC Cross Reference

Name	Offset	Hex Tag	Level
MV_STV_VOLCOUNT	1E0		2
MV_STV_VOLCOUNT	1B0		4
MVACCINF	248		3
MVACCLEN	1E6		3
MVACCLST	1E8		3
MVALCUR	F2		3
MVALREQ	F3		3
MVALTAPE	ED	10	3
MVALVERS	F2		2
MVASDATE	C8		3
MVASDATM	C8		2
MVASSFLG	EC	10	4
MVASTIME	CC		3
MVATIFLG	E9	02	3
MVAUTHID	290		4
MVAUTHND	2F0		3
MVAUTIDS	290		3
MVBLTAPE	ED	02	3
MVCAPACITY	144		2
MVCFLG	74		2
MVCONTAINER	1AE		2
MVCONTAINER_STV	1AE		3
MVCRDATE	3C		2
MVCRJOB	E0		2
MVCRSID	44		2
MVCRTIME	40		2
MVCRUID	D8		2
MVDCRSID	1A6		2
MVDEFRET	ED	80	3
MVDEGAUS	F0	10	4
MVDEGAUS	EE	10	4
MVDELFLG	74	80	3
MVDEN	85		2
MVDESC	270		3
MVDEST	160		2
MVDSNL	21C		3

# EDGSVREC

Name	Offset	Hex Tag	Level
MVDSNLL	1E5		3
MVDSNNO	86		2
MVDSN1	1F0		3
MVDSN1L	1E4		3
MVDTYFLG	140	0F	4
MVDUMMY	74	08	3
MVENTFLG	E9	10	3
MVERRCNT	112		2
MVEXPDT	80		2
MVEXPDTO	7C		2
MVEXPTOKEN	1CE		2
MVEXRFLG	EC	01	4
MVFABEND	E9	08	3
MVFEAT	12C		3
MVFLGA	EC		3
MVFLGAX	E9		2
MVFLGB	ED		2
MVFLGC	EE		2
MVFLGD	EF		2
MVFLGE	F0		2
MVFLGF	1A5		2
MVFOCEAB	E9	04	3
MVFORCE	E9	01	3
MVGVCFLG	E9	80	3
MVHLOC	148		2
MVHTYFLG	141	F0	4
MVINIFLG	E9	20	3
MVLABNO1	90		2
MVLAST_POSN	1DF		2
MVLAST_POSN	1AF		4
MVLCDATE	54		2
MVLCSID	64		2
MVLC TIME	58		2
MVLC TKN	19C		2
MVLCUID	5C		2
MVLOC	158		2
MVLOCFLG	13F		2
MVLONFLG	EC	08	4
MVLONLOC	B0		2
MVLRDDAT	C0		2
MVLTYFLG	13F	0F	3
MVL TYP	F1		2
MVLUDEV	AC		2
MVLWTDAT	C4		2
MVMEDATR	95		3
MVMEDCMP	94		3
MVMEDIA	F4		2
MVMEDREC	92		3
MVMEDTY	93		3
MVMSTFLG	EC	80	4
MVMVMODE	13F	40	3
MVMVSUSE	EF	04	3
MVNLOC	98		2
MVNLTAPE	ED	20	3



## EDGSVREC

Name	Offset	Hex Tag	Level
MVNODSNR	EF	01	3
MVNOWNER	EE	04	4
MVNOWNER	F0	04	4
MVNSTRID	97		2
MVNTYFLG	140	F0	4
MVNVOL	108		2
MVOALT	EF	20	3
MVOBIN	A4		2
MVOCEFLG	EC	01	4
MVOLD_CONTAINER	1BE		2
MVOLNLOC	B8		2
MVOLOC	168		2
MVOPNFLG	EC	04	4
MVOREAD	EF	80	3
MVOUPD	EF	40	3
MVOWNID	D0		2
MVPAD1	8		3
MVPPDATA	11E		2
MVPPNUM	11E		3
MVPPTAPE	ED	40	3
MVPRERR	116		3
MVPROTR	EF	10	3
MVPROTU	EF	08	3
MVPVOL	102		2
MVPWERR	118		3
MVRACK	FC		2
MVRBYSET	1A5	80	3
MVRCCDS	4C		2
MVRCEND	2F0		2
MVRDEN	84		2
MVREC	0		1
MVRECLEV	75		2
MVRECLN	38		2
MVRECORD	0		2
MVREINIT	F0	20	4
MVREINIT	EE	20	4
MVRELACT	F0	7F	3
MVRELACT	EE	7F	3
MVREPREL	F0	40	4
MVREPREL	EE	40	4
MVRETDAT	18C		2
MVRETSCR	EE	80	3
MVRETSCR	F0	80	3
MVRLSFLG	EC	40	4
MVROWNER	EE	08	4
MVROWNER	F0	08	4
MVRQPRTY	142		2
MVSCRFLG	EC	02	4
MVSECLEV	E8		2
MVSELFLG	74	10	3
MVSGNAME	150		2
MVSLTAPE	ED	08	3
MVSTBIN	A0		2
MVSTDATE	A8		2

## EDGSVREC

Name	Offset	Hex Tag	Level
MVSTORID	96		2
MVSTSTAT	8E		2
MVTCOMP	130	08	3
MVTDSI	92		2
MVTNCOMP	130	04	3
MVTOKEN	137		2
MVTPVOL	131		2
MVTRERR	112		3
MVTRNFLG	13F	80	3
MVTRTCH	130		2
MVTUSE	88		2
MVTWERR	114		3
MVTYPE	0		3
MVTYPFLG	140		2
MVUBMDN	176		2
MVUCBTYP	10E		2
MVUCDATE	6C		2
MVUCTIME	70		2
MVULTAPE	ED	01	3
MVUNIT	F4		3
MVUOBMDN	184		2
MVUSBIN	170		2
MVUSE	8C		2
MVUSEFLD	270		4
MVUSELEN	1E7		3
MVUSOBIN	17E		2
MVVARSEC	1E4		2
MVVER	126		3
MVVMUSE	EF	02	3
MVVOLSEQ	EA		2
MVVOLSER	2		3
MVVOLTYPE	1A4		2
MVVRFLG	EC	20	4
MVVRFSCI	8F	40	3
MVVRFXDI	8F	80	3
MVVRREL	8F		2
MVXINFLG	E9	40	3

## Appendix C. Using DFSMSrmm Samples

DFSMSrmm provides several samples in SAMPLIB, SMPSTS, and SYS1.SEDGEXE1. Table 10 lists the samples that are available and where they can be found after SMP/E APPLY processing. After SMP/E ACCEPT processing, samples in SAMPLIB move to ASAMPLIB and samples in SMPSTS move to the AEDGSRC1 library.

Table 10. DFSMSrmm Sample Reporting Jobs

Member Name	Shows You How To	Supplied In
EDGJACTP	Print the ACTIVITY file	SAMPLIB
EDGJAUDM	Create a monthly archive from weekly audit reports	SAMPLIB
EDGJAUDW	Create a weekly archive from daily audit reports	SAMPLIB
EDGJBCAV	Build RMM ADDVOLUME subcommands from a list of barcode scanned volumes	SAMPLIB
EDGJCOMB	Audit tape library using a list of barcode scanned volumes	SAMPLIB
EDGJCVB	Create a report of volumes in a storage location	SAMPLIB
EDGJDSN	Create a report of data sets sorted by data set name	SAMPLIB
EDGJNSCR	Create a report of volumes recently returned to scratch status	SAMPLIB
EDGJRACK	Create a report based on rack number prefixes	SAMPLIB
EDGJRECL	Create a report containing information about lost volumes	SAMPLIB
EDGJRECV	Build RMM subcommands to add volumes to DFSMSrmm	SAMPLIB
EDGJROWN	Create a report about owners sorted by name and department number	SAMPLIB
EDGJRPT	Create reports using the extended report extract file	SAMPLIB
EDGJRVOL	Create a report about volumes; by volume serial number, by rack number, by security level, by owner, and by expiration date	SAMPLIB
EDGJSMF	Create a report of SMF records	SAMPLIB
EDGJSMFP	Create a list of types of SMF record found	SAMPLIB
EDGJVLT	Create a report about volumes currently in storage locations sorted by volume serial number	SAMPLIB
EDGJVLTM	Create a report about volumes moving to storage locations	SAMPLIB
EDGJVME	Create a report for VM tape volumes	SAMPLIB
EDGJVOL	Create a report about volumes sorted by volume serial number	SAMPLIB
EDGRRPTE	Create reports using the extended report extract file	EDGEXE1
EDGRRPTM	Create an extended extract file only for multiple data sets and multivolume reporting	EDGEXE1
EDGRRPTR	Create an extended report extract file	EDGEXE1
EDGXMP1	List all volumes in a multivolume set	SAMPLIB
EDGXMP2	List all data set information for a given volume	SAMPLIB



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## Programming Interface Information

This publication documents intended Programming Interfaces that allow the customer to write programs to obtain the services of DFSMSrmm.

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## Glossary

This glossary defines technical terms and abbreviations used in DFSMS documentation. If you do not find the term you are looking for, refer to the index of the appropriate DFSMS manual or view the *IBM Dictionary of Computing* located at:

<http://www.ibm.com/networking/nsg/nsgmain.htm>

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- The *IBM Dictionary of Computing*, New York: McGraw-Hill, 1994.

The following cross-reference is used in this glossary:

**See:** This refers the reader to (a) a related term, (b) a term that is the expanded form of an abbreviation or acronym, or (c) a synonym or more preferred term.

### A

**abend.** Abnormal end of task

**AL.** American National Standards Label

**AMODE.** Addressing mode

**ANDVRS.** An RMM ADDVRS TSO subcommand operand. See *Using AND*.

**ANSI.** American National Standards Institute

**APAR.** Authorized program analysis report

**API.** Application Programming interface

**ASA.** American Standards Association

**assigned date.** The date that the volume is assigned to the current owner. Assigned date is not meaningful for a scratch volume.

**AUL.** ANSI and user header or trailer label

**automated tape library.** A device consisting of robotic components, cartridge storage areas, tape subsystems, and controlling hardware and software, together with the set of tape volumes that reside in the library and can be mounted on the library tape drives. See also *tape library*. Contrast with *manual tape library*.

**automatic cartridge loader.** An optional feature of the 3480 Magnetic Tape Subsystem that allows preloading of multiple tape cartridges. This feature is standard in the 3490 Magnetic Tape Subsystem.

**automatic recording.** In DFSMSrmm, the process of recording information about a volume and the data sets on the volume in the DFSMSrmm control data set at open or close time.

**availability.** For a storage subsystem, the degree to which a data set or object can be accessed when requested by a user.

### B

**backup.** The process of creating a copy of a data set or object to be used in case of accidental loss.

**basic catalog structure (BCS).** The name of the catalog structure in the integrated catalog facility environment. See also *integrated catalog facility catalog*.

**BCS.** See *basic catalog structure*.

**bin number.** The specific shelf location where a volume resides in a storage location; equivalent to a rack number in the removable media library. See also *shelf location*.

**BLP.** Bypass label processing

**BTLS.** Basic Tape Library Support

**built-in storage location.** One of the Removable Media Manager defined storage locations: LOCAL, DISTANT, and REMOTE.

## C

**cache fast write.** A storage control capability in which the data is written directly to cache without using nonvolatile storage. Cache fast write is useful for temporary data or data that is readily recreated, such as the sort work files created by DFSORT. Contrast with *DASD fast write*.

**cartridge eject.** For an IBM 3494 Tape Library Dataserver, IBM 3495 Tape Library Dataserver, or an IBM Model M10 3495 Tape Library Dataserver the act of physically removing a tape cartridge usually under robot control, by placing it in an output station. The software logically removes the cartridge by deleting or updating the tape volume record in the tape configuration database. For a manual tape library dataserver, the act of logically removing a tape cartridge from the manual tape library dataserver by deleting or updating the tape volume record in the tape configuration database.

**cartridge entry.** For either an IBM 3494 Tape Library Dataserver, IBM 3495 Tape Library Dataserver, or a IBM Model M10 3495 Tape Library Dataserver, the process of logically adding a tape cartridge to the library by creating or updating the tape volume record in the tape configuration database. The cartridge entry process includes the assignment of the cartridge to scratch or private category in the library.

**Cartridge System Tape.** The base tape cartridge media used with 3480 or 3490 Magnetic Tape Subsystems. Contrast with *Enhanced Capacity Cartridge System Tape*.

**cell.** A single cartridge location within an automated tape library dataserver. See also *rack number*.

**circular file.** A type of file that appends data until full. Then, starting at the beginning of the file, subsequent incoming data overwrites the data already there.

**command line.** On a display screen, a display line usually at the bottom of the screen in which only commands can be entered.

**concurrent copy.** A function to increase the accessibility of data by enabling you to make a consistent backup or copy of data concurrent with the usual application program processing.

**confirmation panel.** A DFSMSrmm panel that lets you tell DFSMSrmm to continue or stop a delete or release action. You specify whether or not you want to confirm delete or release requests in your dialog user options.

**container.** A receptacle in which one or more exported logical volumes can be stored. A stacked volume containing one or more logical volumes and residing outside a virtual tape server library is considered to be the container for those volumes.

**container volume.** See *container*.

**control data set.** A VSAM key-sequenced data set that contains the complete inventory of your removable media library, as well as the movement and retention policies you define. In the control data set DFSMSrmm records all changes made to the inventory, such as adding or deleting volumes.

**control data set ID.** A one-to-eight character identifier for the DFSMSrmm control data set used to ensure that, in a multi-system, multi-complex environment, the correct management functions are performed.

**convenience input.** The process of adding a small number of tape cartridges to the IBM 3494 Tape Library Dataserver and IBM 3495 Tape Library Dataserver without interrupting operations, by inserting the cartridges directly into cells in a convenience input station.

**convenience input/output station.** A transfer station with combined tape cartridge input and output functions in the IBM 3494 Tape Library Dataservers only.

**convenience input station.** A transfer station, used by the operator to add tape cartridges to the IBM 3494 Tape Library Dataserver or an IBM 3495 Tape Library Dataserver, which is accessible from outside the enclosure area.

**convenience output.** The process of removing a small number of tape cartridges from the IBM 3494 Tape Library Dataserver or an IBM 3495 Tape Library Dataserver without interrupting operations, by removing the cartridges directly from cells in a convenience input station.

**convenience output station.** A transfer station, used by the operator to remove tape cartridges from the automated tape library dataserver, which is accessible from outside the enclosure area.

**conversion.** In DFSMSrmm, the process of moving your removable media library inventory from another media management system to DFSMSrmm. DFSMSrmm manages the inventory and policies once you have converted it.

**create date.** Create date for a dataset is the date that the dataset is written to tape. Create date can also be the date a data set was read if it was created before DFSMSrmm is in use. Create date is updated each time a data set is replaced and not extended. Create date for volumes and other resources defined to DFSMSrmm is the date the resource is defined to DFSMSrmm or the date specified on the command as the create date.

## D

**DASD.** Direct access storage device



**DASD fast write.** An extended function of some models of the IBM 3990 Storage Control in which data is written concurrently to cache and nonvolatile storage and automatically scheduled for destaging to DASD. Both copies are retained in the storage control until the data is completely written to the DASD, providing data integrity equivalent to writing directly to the DASD. Use of DASD fast write for system-managed data sets is controlled by storage class attributes to improve performance. See also *dynamic cache management*. Contrast with *cache fast write*.

**DASD volume.** A DASD space identified by a common label and accessed by a set of related addresses. See also *volume*, *primary storage*, *migration level 1*, *migration level 2*.

**data column.** A vertical arrangement of identical data items, used on list panels to display an attribute, characteristic, or value of one or more objects.

**data control block (DCB).** A control block used by access method routines in storing and retrieving data.

**data entry panel.** A panel in which the user communicates with the system by filling in one or more fields.

**Data Facility Storage Management Subsystem (DFSMS).** An operating environment that helps automate and centralize the management of storage. To manage storage, SMS provides the storage administrator with control over data class, storage class, management class, storage group, and automatic class selection routine definitions.

**Data Facility Sort.** An IBM licensed program that is a high-speed data processing utility. DFSORT provides an efficient and flexible way to handle sorting, merging, and copying operations, as well as providing versatile data manipulation at the record, field, and bit level.

**DCB.** See *data control block*.

**device.** This term is used interchangeably with unit. You mount a tape on a unit or device, such as a 3490.

**system-managed storage environment.** An environment that helps automate and centralize the management of storage. This is achieved through a combination of hardware, software, and policies. In the system-managed storage environment for OS/390, the function is provided by DFSORT, RACF, and the combination of DFSMS and OS/390.

**DFSMSdfp.** A DFSMS functional component or base element of OS/390, that provides functions for storage management, data management, program management, device management, and distributed data access.

**DFSMSdss.** A DFSMS functional component or base element of OS/390, used to copy, move, dump, and restore data sets and volumes.

**DFSMSShsm.** A DFSMS functional component or base element of OS/390, used for backing up and recovering data, and managing space on volumes in the storage hierarchy.

**DFSMSShsm-managed volume.** (1) A primary storage volume, which is defined to DFSMSShsm but which does not belong to a storage group. (2) A volume in a storage group, which is using DFSMSShsm automatic dump, migration, or backup services. Contrast with *system-managed volume* and *DFSMSRmm-managed volume*.

**DFSMSShsm-owned volume.** A storage volume on which DFSMSShsm stores backup versions, dump copies, or migrated data sets.

**DFSMSRmm.** A DFSMS functional component or base element of OS/390, that manages removable media.

**DFSMSRmm control data set.** See *control data set*.

**DFSMSRmm-managed volume.** A tape volume that is defined to DFSMSRmm. Contrast with *system-managed volume* and *DFSMSShsm-managed volume*.

**disaster recovery.** A procedure for copying and storing an installation's essential business data in a secure location, and for recovering that data in the event of a catastrophic problem. Compare with *vital records*.

**DISTANT.** A DFSMSRmm built-in storage location ID. See *built-in storage location*.

**dual copy.** A high availability function made possible by nonvolatile storage in some models of the IBM 3990 Storage Control. Dual copy maintains two functionally identical copies of designated DASD volumes in the logical 3990 subsystem, and automatically updates both copies every time a write operation is issued to the dual copy logical volume.

**dump class.** A set of characteristics that describes how volume dumps are managed by DFSMSShsm.

**duplexing.** The process of writing two sets of identical records in order to create a second copy of data.

**dynamic cache management.** A function that automatically determines which data sets will be cached based on the 3990 subsystem load, the characteristics of the data set, and the performance requirements defined by the storage administrator.

## E

**EHPCT.** Extended High Performance Cartridge Tape

**eject.** The process used to remove a volume from a system-managed library. For an automated tape library dataserer, the volume is removed from its cell location and moved to the output station. For a manual tape library dataserer, the volume is not moved, but the tape configuration database is updated to show the volume no longer resides in the manual tape library dataserer.

**Enhanced Capacity Cartridge System Tape.**

Cartridge system tape with increased capacity that can only be used with 3490E Magnetic Tape Subsystems. Contrast with *Cartridge System Tape*.

**entry panel.** See *data entry panel*.

**EREP.** Environmental Record Editing and Printing program

**expanded output.** Expanded output occurs when you specify OUTPUT=FIELDS and EXPAND=YES. For those subcommands for which expanded output applies, your application program receives more variable data than for standard output.

**expiration.** The process by which data sets and volumes are identified as available for reuse. In DFSMSrmm, all volumes have an expiration date or retention period set for them either by vital record specification policy, by user-specified JCL when writing a data set to the volume, or by an installation default. When a volume reaches its expiration date or retention period, it becomes eligible for release.

**expiration date.** The date at which a file is no longer protected against automatic deletion by the system.

**expiration processing.** The process of inventory management that ensures expired volumes are released and carries out required release actions on those volumes.

**export.** The operation to remove one or more logical volumes from a virtual tape server library. First, the list of logical volumes to export must be written on an export list volume and then, the export operation itself must be initiated.

**exported logical volume.** A logical volume that has gone through the export process and now resides on a stacked volume outside a virtual tape server library.

**export list volume.** A virtual tape server logical volume containing the list of logical volumes to export.

**external label.** A label attached to the outside of a tape cartridge that is to be stored in an IBM 3494 Tape Library Dataserver or IBM 3495 Tape Library Dataserver. The label might contain the DFSMSrmm rack number of the tape volume.

**extract data set.** A data set that you use to generate reports.

## F

**field format.** Field format is where the output consists of Structured Field Introducers and variable data rather than output in line format.

**filtering.** The process of selecting data sets based on specified criteria. These criteria consist of fully or partially-qualified data set names or of certain data set characteristics.

**FIPS.** Federal Information Processing Standard

**FMID.** Function modification identifier

**FRR.** Functional recovery routines

## G

**generation data group (GDG).** A collection of data sets kept in chronological order. Each data set is a generation data set.

**generation data set.** One generation of a generation data group.

**generation number.** The number of a generation within a generation data group. A zero represents the most current generation of the group, a negative integer (-1) represents an older generation and, a positive integer (+1) represents a new generation that has not yet been cataloged.

**GDG.** See *generation data group*.

**GDS.** See *generation data set*.

**giga (G).** The information-industry meaning depends upon the context:

1. G = 1,073,741,824(2<sup>30</sup>) for real and virtual storage
2. G = 1,000,000,000 for disk storage capacity (e.g., 4 Gb fixed disk)
3. G = 1,000,000,000 for transmission rates

**GPR.** General purpose register

**GRS.** Global resource serialization

**guaranteed space.** A storage class attribute indicating the space is to be preallocated when a data set is created. If you specify explicit volume serial numbers, SMS honors them. If space to satisfy the allocation is not available on the user-specified volumes, the allocation fails.

## H

**hardware configuration definition (HCD).** An interactive interface in MVS that enables an installation to define hardware configurations from a single point of control.

**HCD.** See *hardware configuration definition*.

**high capacity input station.** A transfer station, used by the operator to add tape cartridges to the IBM 3494 Tape Library Dataserver or IBM 3495 Tape Library Dataserver, which is inside the enclosure area.

**high capacity output station.** A transfer station, used by the operator to remove tape cartridges from the automated tape library dataserver, which is inside the enclosure area.

**home.** See *home location*.

**home location.** For DFSMSrmm, the place where DFSMSrmm normally returns a volume when the volume is no longer retained by vital records processing.

**HPCT.** High Performance Cartridge Tape

## I

**ICETOOL.** DFSORT's multipurpose data processing and reporting utility.

**ID.** Identifier

**IDRC.** See *improved data recording capability*.

**import.** The operation to enter previously exported logical volumes residing on a stacked volume into a virtual tape server library. First, the list of logical volumes to import must be written on an import list volume and the stacked volumes must be entered, and then, the import operation itself must be initiated.

**import list volume.** A virtual tape server logical volume containing the list of logical volumes to import. This list can contain individual logical volumes to import and/or it can contain a list of stacked volumes in which all logical volumes on the stacked volume are imported.

**imported logical volume.** An exported logical volume that has gone through the import process and can be referenced as a tape volume within a virtual tape server library. An imported logical volume originates from a stacked volume that went through the export process.

**improved data recording capability (IDRC).** A recording mode that can increase the effective cartridge data capacity and the effective data rate when enabled and used. IDRC is always enabled on the 3490E Magnetic Tape Subsystem.

**installation defined storage location.** A storage location defined using the LOCDEF command in the EDGRMMxx parmlib member.

**integrated catalog facility catalog.** A catalog that is composed of a basic catalog structure (BCS) and its related volume tables of contents (VTOCs) and VSAM

volume data sets (VVDSs). See also *basic catalog structure* and *VSAM volume data set*.

**Interactive Storage Management Facility (ISMF).** The interactive interface of DFSMS that allows users and storage administrators access to the storage management functions.

**Interactive Problem Control System (IPCS).** A system facility that allows interactive problem analysis.

**Interactive System Productivity Facility (ISPF).** An IBM licensed program used to develop, test, and run interactive, panel-driven dialogs.

**internal label.** The internal label for standard label tapes is recorded in the VOL1 header label, magnetically recorded on the tape media.

**in transit.** A volume is in transit when it must be moved from one location to another and DFSMSrmm believes that the move has started, but has not yet received confirmation that the move is complete. For a volume moving from a system-managed library, the move starts when the volume is ejected.

**inventory management.** The regular tasks that need to be performed to maintain the control data set. See also *expiration processing*, *storage location management processing*, and *vital record processing*.

**IPCS.** See *Interactive Problem Control System*.

**IPL.** Initial program load.

**ISPF.** See *Interactive System Productivity Facility*.

**ISMF.** See *Interactive Storage Management Facility*.

**ISO.** See *International Organization for Standardization*.

## J

**JCL.** Job control language

**JES2.** Job entry subsystem 2

**JES3.** Job entry subsystem 3

**JFCB.** Job file control block

**journal.** A sequential data set that contains a chronological record of changes made to the DFSMSrmm control data set. You use the journal when you need to reconstruct the DFSMSrmm control data set.

## K

**keyword.** A predefined word that is used as an identifier.

**kilo (K).** The information-industry meaning depends upon the context:

1.  $K = 1024(2^{10})$  for real and virtual storage
2.  $K = 1000$  for disk storage capacity (e.g., 4000 KB fixed disk)
3.  $K = 1000$  for transmission rates

## L

**Library Control System.** The Object Access Method component that controls optical and tape library operations and maintains configuration information.

**Line Format.** Line format is where text and variable data are formatted into lines suitable for displaying at a terminal or printing on hardcopy output.

**LOCAL.** A DFSMSrmm built-in storage location ID. See *built-in storage location*.

**location name.** A name given to a place for removable media that DFSMSrmm manages. A location name can be the name of a system-managed library, a storage location name, or the location *SHELF*, identifying shelf space outside a system-managed library or storage locations.

**logical volume.** Logical volumes have a many-to-one association with physical tape media and are used indirectly by MVS applications. They reside in a Virtual Tape Server or on exported stacked volumes. Applications can access the data on these volumes only when they reside in a Virtual Tape Server, which makes the data available via its tape volume cache or after the data has been copied to a physical volume through the use of special utilities.

**low-on-scratch management.** The process by which DFSMSrmm replenishes scratch volumes in a system-managed library when it detects that there are not enough available scratch volumes.

## M

**management class.** A collection of management attributes that are defined by the storage administrator, used to control the release of allocated but unused space: to control the retention, migration, and backup of data sets: to control the retention and backup of aggregate groups, and to control the retention, backup, and class transition of objects. If assigned by ACS routine to system-managed tape volumes, it can be used to identify a DFSMSrmm vital record specification.

**manual cartridge entry processing.** The process by which a volume is added to the tape configuration database when it is added to a manual tape library dataser. DFSMSrmm can initiate this process.

**manual mode.** An operational mode where DFSMSrmm runs without recording volume usage or validating volumes. The DFSMSrmm TSO commands, ISPF dialog, and inventory management functions are all available in manual mode.

**manual tape library.** A manual tape library is an installation-defined set of tape drives and the set of volumes that can be mounted on the drives. The IBM implementation includes one or more 3490 subsystems, each connected by a Library Attachment Facility to a processor running the Library Manager application, and a set of volumes, defined by the installation as part of the library, which resides in shelf storage located near the 3490 subsystems.

**master system.** The MVS system where the master DFSMSrmm control data set resides.

**master volume.** A private volume that contains data that is available for write processing based on the DFSMSrmm EDGRMMxx parmliib MASTEROVERWRITE operand.

**media format.** The type of volume, recording format and techniques used to create the data on the volume.

**media library.** See *removable media library*.

**media management system.** A program that helps you manage removable media. DFSMSrmm is a media management system.

**media name.** An up to 8 character value that describes the shape or type of removable media stored in a storage location. Examples of media name are: SQUARE, ROUND, CARTRDGE, 3480

**media type.** A value that specifies the volume's media type. Media type can be specified as: \*, CST, ECCST, HPCT, or EHPCT.

**MEDIA 1.** cartridge system tape

**MEDIA 2.** enhanced capacity cartridge system tape

**MEDIA 3.** high performance cartridge tape

**MEDIA 4.** extended high performance cartridge tape

**mega (M).** The information-industry meaning depends upon the context:

1.  $M = 1,048,576(2^{20})$  for real and virtual storage
2.  $M = 1,000,000$  for disk storage capacity (e.g., 4000 MB fixed disk)
3.  $M = 1,000,000$  for transmission rates

**migration.** The process of moving unused data to lower cost storage in order to make space for high-availability data. If you wish to use the data set, it must be recalled. See also *migration level 1* and *migration level 2*.



**migration level 1.** DFSMSHsm-owned DASD volumes that contain data sets migrated from primary storage volumes. The data can be compressed. See also *storage hierarchy*. Contrast with *primary storage* and *migration level 2*.

**migration level 2.** DFSMSHsm-owned tape or DASD volumes that contain data sets migrated from primary storage volumes or from migration level 1 volumes. The data can be compressed. See also *storage hierarchy*. Contrast with *primary storage* and *migration level 1*.

**MVS image.** A single occurrence of the MVS/ESA operating system that has the ability to process work.

## N

**name vital record specification.** A vital record specification used to define additional retention and movement policy information for data sets or volumes.

**NEXTVRS.** An RMM ADDVRS TSO subcommand operand. See *Using Next*.

**NL.** No label

**non-scratch volume.** A volume that is not scratch, which means it has valid or unexpired data on it. Contrast with *scratch*.

**NSL.** Nonstandard label

## O

**OAM.** See *object access method*.

**object.** A named byte stream having no specific format or record orientation.

**object access method (OAM).** An access method that provides storage, retrieval, and storage hierarchy management for objects and provides storage and retrieval management for tape volumes contained in system-managed libraries.

**OPC/ESA.** Operations Planning and Control/Enterprise Systems Architecture

**optical volume.** Storage space on an optical disk, identified by a volume label. See also *volume*.

**optical disk.** A disk that uses laser technology for data storage and retrieval.

**option line.** See *command line*

**owner.** In DFSMSrmm, a person or group of persons defined as a DFSMSrmm user owning volumes. An owner is defined to DFSMSrmm through an owner ID.

**owner ID.** In DFSMSrmm, an identifier for DFSMSrmm users who own volumes.

## P

**parallel.** During conversion, when you install DFSMSrmm concurrently with an existing media management system, it is called running in parallel.

**partitioned data set (PDS).** A data set on direct access storage that is divided into partitions, called members, each of which can contain a program, part of a program, or data.

**permanent data set.** A user-named data set that is normally retained for longer than the duration of a job or interactive session. Contrast with *temporary data set*.

**PF.** Program function key

**physical stacked volume.** See *stacked volume*.

**physical volume.** Physical volumes have a one-to-one association with physical tape media and are used directly by MVS applications. They may reside in an automated tape library dataserver or be kept on shelf storage either at vault sites or within the data center where they can be mounted on stand-alone tape drives.

**pool.** A group of shelf locations in the removable media library whose rack numbers share a common prefix. The shelf locations are logically grouped so that the volumes stored there are easier to find and use.

**pool ID.** The identifier for a pool. You define pool IDs in parmlib member EDGRMMxx.

**pooling.** The process of arranging shelf locations in the removable media library into logical groups.

**pool storage group.** A type of storage group that contains system-managed DASD volumes. Pool storage groups allow groups of volumes to be managed as a single entity. See also *storage group*.

**primary space allocation.** Amount of space requested by a user for a data set when it is created. Contrast with *secondary space allocation*.

**primary storage.** A DASD volume available to users for data allocation. The volumes in primary storage are called primary volumes. See also *storage hierarchy*. Contrast with *migration level 1* and *migration level 2*.

**primary vital record specification.** The first retention and movement policy that DFSMSrmm matches to a data set and volume used for disaster recovery and vital record purposes. See also vital record specification and secondary vital record specification.

**private tape volume.** A volume assigned to specific individuals or functions.

**protect mode.** In protect mode, DFSMSrmm validates all volume requests.

**pseudo-generation data group.** A collection of data sets, using the same data set name pattern, to be managed like a generation data group. The ~ masking character is used in DFSMSrmm to identify the characters in the pattern that change with each generation.

**PSW.** Program status word

**PTF.** Program temporary fix

**pull list.** A list of scratch volumes to be pulled from the library for use.

**PUT.** Program update tape

## R

**RACF.** Resource Access Control Facility

**rack number.** A six-character identifier that corresponds to a specific volume's shelf location in the installation's removable media library, and is the identifier used on the external label of the volume to identify it. The rack number identifies the pool and the external volume serial number for a volume residing in an automated tape library dataserwer. The rack number identifies the pool, the external volume serial, and shelf location number for a volume not residing in an automated tape library dataserwer. The rack number is not written by the tape drive. It exists as an entry in the DFSMSrmm control data set and on the external label of the tape. See also *shelf location*

**rack pool.** A group of shelves that contains volumes that are generally read-only.

**ready to scratch.** This describes the condition where a volume is eligible for scratch processing while it resides in a storage location. Since no other release actions are required, the volume can be returned to scratch directly from the storage location.

**recording format.** For a tape volume, the format of the data on the tape; for example, 18 tracks or 36 tracks.

**record-only mode.** The operating mode where DFSMSrmm records information about volumes as you use them, but does not validate or reject volumes.

**recovery.** The process of rebuilding data after it has been damaged or destroyed, often by using a backup copy of the data or by reapplying transactions recorded in a journal.

**relative start generation.** Relative generation zero is the latest generation of a tape; Relative generation -1 is the previous generation of that tape. Relative generation -2 is the generation before the previous one.

**REMOTE.** A DFSMSrmm built-in storage location ID. See *built-in storage location*.

**removable media.** See *volume*.

**removable media library.** The volumes that are available for immediate use, and the shelves where they could reside.

**Resource Access Control Facility (RACF).** An IBM licensed program that provides for access control by identifying and verifying the users to the system; authorizing access to protected resources; logging the detected unauthorized attempts to enter the system; and logging the detected accesses to protected resources.

**Resource Group.** A collection of structured fields that describe the attributes of a resource such as a volume.

**Restructured Extended Executor (REXX) Language.** A general-purpose, high-level programming language, particularly suitable for EXEC procedures or programs for personal computing.

**retention date.** Retention date can be the date that a data set or volume is retained by a vital record specification or the date of the inventory management run when the data set or volume is no longer retained by a vital record specification.

**retention period.** The time for which DFSMSrmm retains a volume or data set before considering it for release. You can retain a data set or volume as part of disaster recovery or vital records management. You set a retention period through a vital record specification that overrides a data set's expiration date.

**retention type.** The types of retention for which DFSMSrmm retains a volume or data set before considering it for release. The retention types for data sets are BYDAYSCYCLE, CYCLES, DAYS, EXTRADAYS, LASTREFERENCEDAYS, UNTILEXPIRED, and WHILECATALOG. The retention types for volumes are DAYS and CYCLE.

**REXX.** Restructured Extended Executor Language

**RMF.** Resource Measurement Facility

**RMM complex (RMMplex).** One or more MVS images that share a common DFSMSrmm control data set.

**RMODE.** Residence mode

## S

**SAF.** System Authorization Facility

**scratch.** The status of a tape volume that is available for general use, because the data on it is incorrect or is no longer needed. You request a scratch volume when you omit the volume serial number on a request for a tape volume mount.

**scratch pool.** The collection of tape volumes from which requests for scratch tapes can be satisfied. Contrast with *rack pool*.

**scratch processing.** The process for returning a volume to scratch status once it is no longer in use and has no outstanding release actions pending.

**scratch tape.** See *scratch volume*.

**scratch volume.** A tape volume that contains expired data only. See *scratch*.

**SDB.** Structured database

**SDSF.** Spool display and search facility

**secondary space allocation.** Amount of additional space requested by the user for a data set when primary space is full. Contrast with *primary space allocation*.

**secondary vital record specification.** The second retention and movement policy that DFSMSrmm matches to a data set and volume used for disaster recovery and vital records purposes. See also vital record specification and primary vital record specification.

**SFI.** See *structured field introducer*.

**shelf.** A place for storing removable media, such as tape and optical volumes, when they are not being written to or read.

**shelf location.** A single space on a shelf for storage of removable media. DFSMSrmm defines a shelf location in the removable media library by a rack number, and a shelf location in a storage location by a bin number. See also *rack number* and *bin number*

**shelf-management.** Is the function provided to manage the placement of volumes in individual slots in a location. Shelf-management is provided for the removable media library using rack numbers. For storage locations it is optional as defined by the LOCDEF options in parmlib and uses bin numbers.

**shelf-resident volume.** A volume that resides in a non-system-managed tape library.

**shelf space.** See *shelf*.

**SL.** Standard label

**slot.** See *shelf location*.

**SMF.** System management facility

**SMP/E.** System Modification Program Extended

**stacked volume.** Stacked volumes have a one-to-one association with physical tape media and are used in a Virtual Tape Server to store logical volumes. Stacked

volumes are not used by MVS applications but by the Virtual Tape Server and its associated utilities. They may be removed from a Virtual Tape Server to allow transportation of logical volumes to a vault or to another Virtual Tape Server.

**standard label.** An IBM standard tape label.

**Standard output.** Standard output is the amount of variable data displayed, printed or put into a REXX variable in response to a subcommand. When you specify OUTPUT=LINES or EXPAND=NO with OUTPUT=FIELDS, your application program receives standard output as opposed to expanded output.

**storage administrator.** A person in the data processing center who is responsible for defining, implementing, and maintaining storage management policies.

**storage class.** A collection of storage attributes that identify performance goals and availability requirements, defined by the storage administrator, used to select a device that can meet those goals and requirements.

**storage group.** A collection of storage volumes and attributes, defined by the storage administrator. The collections can be a group of DASD volumes or tape volumes, or a group of DASD volumes and optical volumes treated as a single object storage hierarchy.

**storage location.** A location physically separate from the removable media library where volumes are stored for disaster recovery, backup, and vital records management.

**(storage) location dominance.** The priority used by DFSMSrmm to decide where to move a volume within the removable media library during vital record specification processing. It covers all the locations; SHELF, storage locations, and system-managed tape libraries.

**storage location management processing.** The process of inventory management that assigns a shelf location to volumes that have moved as a result of vital record processing. See also *vital record processing*

**stripe.** In DFSMS, the portion of a striped data set that resides on one volume. The records in that portion are not always logically consecutive. The system distributes records among the stripes such that the volumes can be read from or written to simultaneously to gain better performance. Whether it is striped is not apparent to the application program.

**striping.** A software implementation of a disk array that distributes a data set across multiple volumes to improve performance.

**structured field.** Output from the DFSMSrmm application programming interface consisting of a Structured Field Introducer and output data.

**structured field introducer (SFI).** An 8-byte entity that either introduces the beginning of a group of data or introduces output data that immediately follows the introducer.

**subsystem.** A special MVS task that provides services and functions to other MVS users. Requests for service are made to the subsystem through a standard MVS facility known as the subsystem interface (SSI). Standard MVS subsystems are the master subsystem and the job entry subsystems JES2 and JES3.

**subsystem interface (SSI).** The means by which system routines request services of the master subsystem, a job entry subsystem, or other subsystems defined to the subsystem interface.

**SUL.** IBM standard and user header or trailer label

**SVC.** Supervisor call

**system-managed storage.** Storage managed by the Storage Management Subsystem. SMS attempts to deliver required services for availability, performance, and space to applications. See also *system-managed storage environment*.

**system-managed tape library.** A collection of tape volumes and tape devices, defined in the tape configuration database. A system-managed tape library can be automated or manual. See also *tape library*.

**system-managed volume.** A DASD, optical, or tape volume that belongs to a storage group. Contrast with *DFSMSshsm-managed volume* and *DFSMSrmm-managed volume*.

**system programmer.** A programmer who plans, generates, maintains, extends, and controls the use of an operating system and applications with the aim of improving overall productivity of an installation.

## T

**tape configuration database (TCDB).** One or more volume catalogs used to maintain records of system-managed tape libraries and tape volumes.

**tape librarian.** The person who manages the tape library. This person is a specialized storage administrator.

**tape library.** A set of equipment and facilities that support an installation's tape environment. This can include tape storage racks, a set of tape drives, and a set of related tape volumes mounted on those drives. See also *system-managed tape library* and *automated tape library*.

**Tape Library Control System (TLCS).** IBM program offering 5785-EAW. DFSMSrmm replaces TLCS.

**Tape Library Dataserver.** A hardware device that maintains the tape inventory associated with a set of tape drives. An automated tape library dataserver also manages the mounting, removal, and storage of tapes. An automated or manual tape library that supports system-managed storage of tape volumes. IBM's automated tape library dataservers include the IBM 3494 Tape Library Dataserver and the IBM 3495 Tape Library Dataserver. IBM's manual tape library dataserver is the IBM Model M10 3495 Tape Library Dataserver.

**tape storage group.** A type of storage group that contains system-managed private tape volumes. The tape storage group definition specifies the system-managed tape libraries that can contain tape volumes. See also *storage group*.

**tape subsystem.** A magnetic tape subsystem consisting of a controller and devices, which allows for the storage of user data on tape cartridges. Examples of tape subsystems include the IBM 3490 and 3490E Magnetic Tape Subsystems.

**tape volume.** A tape volume is the recording space on a single tape cartridge or reel. See also *volume*.

**TCDB.** See *tape configuration database*.

**temporary data set.** An uncataloged data set whose name begins with & or &&, that is normally used only for the duration of a job or interactive session. Contrast with *permanent data set*.

**tera (T).** The information-industry meaning depends upon the context:

1. T = 1,099,511,627,776(2<sup>40</sup>) for real and virtual storage
2. T = 1,000,000,000,000 for disk storage capacity (e.g., 4 TB of DASD storage)
3. T = 1,000,000,000,000 for transmission rates

**TLCS.** See *Tape Library Control System*.

**TSO.** Time Sharing Option

## U

**Until Expired.** Allows the use of vital record specification policies for managing retention in a location as long as the volume expiration date has not been reached.

**use attribute.** (1) The attribute assigned to a DAD volume that controls when the volume can be used to allocate new data sets; use attributes are *public*, *private*, and *storage*. (2) For system-managed tape volumes, use attributes are *scratch* and *private*.

**user volume.** A volume assigned to a user, that can contain any data and can be rewritten as many times as the user wishes until the volume expires.



**using AND.** A method for linking DFSMSrmm vital record specifications to create chains of vital record specifications. DFSMSrmm applies policies in chains using AND only when all the retention criteria are true.

**using NEXT.** A method for linking DFSMSrmm vital record specifications to create chains of vital record specifications. DFSMSrmm applies policies in chains using NEXT one vital record at a time.

## V

**virtual export.** Mark a volume as exported by using the DFSMSrmm subcommands.

**virtual input/output (VIO) storage group.** A type of storage group that allocates data sets to paging storage, which simulates a DASD volume. VIO storage groups do not contain any actual DASD volumes. See also *storage group*.

**Virtual Tape Server (VTS).** This subsystem, integrated into the Magstar 3494 Tape Library, combines the random access and high performance characteristics of DASD with outboard hierarchical storage management and virtual tape devices and tape volumes.

**vital record group.** A set of data sets with the same name that matches to the same DFSMSrmm vital record specification

**vital record processing.** The process of inventory management that determines which data sets and volumes DFSMSrmm should retain and whether a volume needs to move. These volumes and data sets have been assigned a vital record specification.

**vital records.** A data set or volume maintained for meeting an externally-imposed retention requirement, such as a legal requirement. Compare with *disaster recovery*.

**vital record specification.** Policies defined to manage the retention and movement of data sets and volumes used for disaster recovery and vital records purposes.

**vital record specification management value.** A one-to-eight character name defined by your installation and used to assign management and retention values to tape data sets. The vital record management value can be any value you chose to create a match between a vital record specification and data sets and volumes in your installation. By matching the vital record specifications to the data set or volumes, DFSMSrmm applies the retention and movement policies you define in the vital record specifications. During inventory management VRSEL processing, DFSMSrmm selects the correct, best matching vital record specification for a tape data set or volume.

**VOLSER.** See *volume serial number*.

**volume.** The storage space on DASD, tape, or optical devices, which is identified by a volume label. See also *DASD volume*, *logical volume*, *optical volume*, *stacked volume*, and *tape volume*.

**volume catalog.** See *tape configuration database*.

**volume expiration date.** The date the volume should expire based on the highest expiration date of the data sets that reside on the volume.

**volume serial number (VOLSER).** An identification number in a volume label that is assigned when a volume is prepared for use on the system. For standard label volumes, the volume serial number is the VOL1 label of the volume. For no label volumes, the volume serial number is the name the user assigns to the volume. In DFSMSrmm, volume serial numbers do not have to match rack numbers.

**VTS.** See *virtual tape server*.

## W

**warning mode.** The operating mode in which DFSMSrmm validates volumes as you use them, but issues warning messages when it discovers errors instead of rejecting volumes.

**write-to-operator (WTO).** An optional user-coded service that allows a message to be written to the system console operator informing the operator of errors and unusual system conditions that may need to be corrected.

**WTO.** See *write-to-operator*.



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