z/OS 2.5

DFSMSrmm Reporting





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About this document

This document tells you how to create reports for DFSMSrmm resources. It is intended for storage administrators, system programmers, and application programmers who are responsible for implementing, customizing, and using DFSMSrmm. A topic about using DFSORT ICETOOL symbols is included. Using ICETOOL symbols can simplify report writing.

For information about accessibility features of z/OS, for users who have a physical disability, see <u>Appendix</u> D, "Accessibility," on page 329.

Required product knowledge

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

- Using DFSMSrmm Utilities
- Using DFSORT's ICETOOL
- Using ISPF
- Writing REXX EXECs
- Using TSO Commands

z/OS information

This information explains how z/OS references information in other documents and on the web.

When possible, this information uses cross document links that go directly to the topic in reference using shortened versions of the document title. For complete titles and order numbers of the documents for all products that are part of z/OS, see z/OS Information Roadmap.

To find the complete z/OS library, go to IBM Documentation (www.ibm.com/docs/en/zos).

Notational conventions

This section explains the notational conventions used in this document.

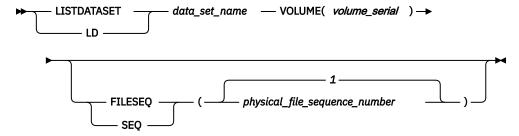
How to read syntax diagrams

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.

```
➤ Syntax diagram ➤
```

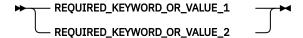
• If a diagram is longer than one line, each line to be continued ends with a single arrowhead and the next line begins with a single arrowhead.



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

► REQUIRED_KEYWORD →

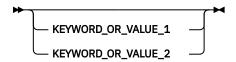
If several mutually exclusive required keywords or values exist, they are stacked vertically in alphanumeric order.



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



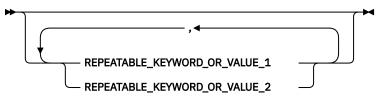
If several mutually exclusive optional keywords or values exist, they are stacked vertically in alphanumeric order below the main path line.



• 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.

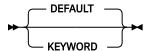
• If a diagram shows a character that is not alphanumeric (such as parentheses, periods, commas, and equal signs), you must code the character as part of the syntax. In this example, you must code **KEYWORD=(001,0.001)**.

```
► 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.



Notes:

- ¹ An example of a syntax note.
- References to syntax notes appear as numbers enclosed in parentheses above the line. Do not code the parentheses or the number.

```
► KEYWORD →
```

• 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.

► Reference to syntax fragment →

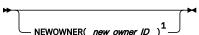
Syntax fragment

► 1ST_KEYWORD,2ND_KEYWORD,3RD_KEYWORD →

The following is an example of a syntax diagram.



newowner



Notes:

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

The possible valid versions of the RMM DELETEOWNER command are:

```
RMM DELETEOWNER owner
RMM DO 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 document. 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 <u>Table 1 on page xxiv</u>. <u>Table 2 on page xxiv</u> 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'

Note: 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'.

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
1	To enclose specified parameter values which contain special characters
(blank)	To delimit fields

How to send your comments to IBM

We invite you to submit comments about the z/OS product documentation. Your valuable feedback helps to ensure accurate and high-quality information.

Important: If your comment regards a technical question or problem, see instead <u>"If you have a technical</u> problem" on page xxv.

Submit your feedback by using the appropriate method for your type of comment or question:

Feedback on z/OS function

If your comment or question is about z/OS itself, submit a request through the <u>IBM RFE Community</u> (www.ibm.com/developerworks/rfe/).

Feedback on IBM® Documentation function

If your comment or question is about the IBM Documentation functionality, for example search capabilities or how to arrange the browser view, send a detailed email to IBM Documentation Support at ibmdocs@us.ibm.com.

Feedback on the z/OS product documentation and content

If your comment is about the information that is provided in the z/OS product documentation library, send a detailed email to mhvrcfs@us.ibm.com. We welcome any feedback that you have, including comments on the clarity, accuracy, or completeness of the information.

To help us better process your submission, include the following information:

- Your name, company/university/institution name, and email address
- The following deliverable title and order number: z/OS DFSMSrmm Reporting, SC23-6875-50
- The section title of the specific information to which your comment relates
- The text of your comment.

When you send comments to IBM, you grant IBM a nonexclusive authority to use or distribute the comments in any way appropriate without incurring any obligation to you.

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If you have a technical problem or question, do not use the feedback methods that are provided for sending documentation comments. Instead, take one or more of the following actions:

- Go to the IBM Support Portal (support.ibm.com).
- · Contact your IBM service representative.
- Call IBM technical support.

Summary of changes

This information includes terminology, maintenance, and editorial changes. Technical changes or additions to the text and illustrations for the current edition are indicated by a vertical line to the left of the change.

Note: IBM z/OS policy for the integration of service information into the z/OS product documentation library is documented on the z/OS Internet Library under IBM z/OS Product Documentation Update Policy (www-01.ibm.com/servers/resourcelink/svc00100.nsf/pages/ibm-zos-doc-update-policy? OpenDocument).

Summary of changes for z/OS Version 2 Release 5

The following changes are made for z/OS Version 2 Release 5 (V2R5). The most recent updates are listed at the top of each section.

This information contains no technical changes for this release.

Summary of changes for z/OS Version 2 Release 4

The following changes are made for z/OS Version 2 Release 4 (V2R4). The most recent updates are listed at the top of each section.

New

Prior to June 2020 refresh

The following content is new.

- Added new sample report definition EDGGR16. For more information, see <u>"Sample report definitions"</u> on page 37.
- Added new REXX variable EDGGFDAT. For more information, see <u>"Reporting tool REXX variables" on page 28.</u>
- Added description for usage of the new sample EDGMKVRS. For more information, see <u>"EDGMKVRS"</u> EXEC to make backup of VRS policies" on page 159.
- Added bullet to describe date format for American and European. For more information, see <u>"Running a report generator report"</u> on page 7.
- Added EDGMKVRS and EDGJMVRS to the table of DFSMSrmm sample reporting jobs. For more information, see Appendix C, "List of DFSMSrmm samples," on page 327.

Changed

December 2020 refresh

With APAR OA56852, the following macros were updated:

- "Extract data set data set record: EDGRDEXT" on page 237.
- "Extract data set extended data set record: EDGRXEXT" on page 265.

Prior to June 2020 refresh

The following content is changed.

- Updated the source code for the EDGACTSY, EDGACXSY, EDGEXTSY, and EDGSRCSY macros. For more information, see Appendix A, "DFSORT symbols for use with DFSMSrmm," on page 161.
- Added 1770, 1771 and 1772 to the 'Structure RXEXT' table. For more information, see <u>"Extract data set</u> extended data set record: EDGRXEXT" on page 265.

• Added 618, 619 and 620 to the 'Structure RDEXT' table. For more information, see <u>"Extract data set</u> data set record: EDGRDEXT" on page 237.

Deleted

No content was removed from this information.

Summary of changes for z/OS Version 2 Release 3

This edition contains updates for Version 2 Release 3 (V2R3).

Changed information

This edition includes the following topics that contain changed information:

- "EDGEXTSY: Extract data set symbols" on page 168
- "EDGSRCSY: SMF record" on page 190
- "Extract data set data set record: EDGRDEXT" on page 237 added constants.
- "Extract data set volume record: EDGRVEXT" on page 254 added constants.
- "Extract data set extended data set record: EDGRXEXT" on page 265 added constants.
- "SMF data set information: EDGSDREC" on page 281 added constants.
- "SMF volume information: EDGSVREC" on page 305 added constants.
- "Reporting tool REXX variables" on page 28 added REXX variables.
- "Adding a report definition" on page 12 updated panel.
- "Changing a report definition" on page 15 updated panel.
- "Adding a new report definition from a report type" on page 22 updated panel.
- "Creating a report that contains statistics and counts" on page 31 changed title.
- "Tailoring the EDGJRPT sample JCL" on page 86

Chapter 1. Creating DFSMSrmm reports

DFSMSrmm is a z/OS 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, identify 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 cannot view the full-screen 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 again.

Consider using the DFSMSrmm-supplied standard reports for reporting requirements, so that you can 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. Use the DFSMSrmm report generator with utilities like DFSORT's ICETOOL to create customized reports. You can create report definitions, save reporting jobs, and submit reporting jobs using the DFSMSrmm report generator. The DFSMSrmm report generator can also create reports on non-DFSMSrmm data and includes sample reports for reporting on DFSMS DCOLLECT records and DFSMShsm 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. For additional information, see <u>z/OS DFSMSrmm Application</u> Programming Interface.

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 1 on page 1:

```
Volume Owner Rack Assigned Expiration Location Dsets St Act Dest.
date date

VOL600 AMYW01 RAC500 06/11/2012 11/11/2012 SHELF 0 UR SI
VOL601 AMYW01 RAC501 06/11/2012 11/11/2012 SHELF 0 UR SI
VOL603 AMYW01 RAC502 06/11/2012 11/11/2012 SHELF 0 UR SI
EDG3011I 3 ENTRIES LISTED
```

Figure 1. Example of a list of volumes owned by a single user

With the DFSMSrmm ISPF Report Generator option, you can run batch reports by selecting predefined reports or creating your own custom reports. See <u>Chapter 2</u>, "Using the DFSMSrmm report generator," on page 5 for a detailed description.

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 <u>z/OS DFSMSrmm Managing and Using Removable Media</u> 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 3, "Creating inventory management reports," on page 49. See *z/OS 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 4, "Creating reports with DFSMSrmm utilities," on page 65 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 that 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 5, "Creating reports using DFSMSrmm-supplied EXECs," on page 85 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. Use the DFSMSrmm ISPF Report Generator to build customized reports using utilities like DFSORT's ICETOOL.

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 6, "Using DFSMSrmm with DFSORT," on page 117 for further information.

Related reading:

- 1. See <u>Chapter 2</u>, "Using the DFSMSrmm report generator," on page 5 for information about using the report generator to create customized reports.
- 2. See <u>Chapter 6, "Using DFSMSrmm with DFSORT," on page 117</u> for information about using DFSMSrmm with DFSORT.

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 z/OS DFSMSrmm Application Programming Interface for information about how to use the DFSMSrmm application programming interface.

Chapter 2. Using the DFSMSrmm report generator

The DFSMSrmm report generator is an Interactive System Productivity Facility (ISPF) application that you can use to create reports. The report generator:

- Provides reports that you can run as-is or that you can modify as you wish. You can use samples to create reports for volumes, data sets, racks, owners, and the retention and movement policies that are established for your installation. You can modify these samples to create tailored reports. DFSMSrmm ships samples in SYS1.SAMPLIB. See "Running a report generator report" on page 7 to run one of these reports.
- Generates job control language (JCL) that is based on specifications that you use to submit the report
 jobs. The generation of JCL depends on the report type and therefore the macros that map the data
 records. The generation knows, based on the macro name and keyword options used, whether to
 generate a DCOLLECT jobstep, a DFSMShsm FSR and WWFSR reformat, a DFSMSrmm extract, or a copy
 of SMF records.
- Includes samples for reporting from DCOLLECT and DFSMShsm data.
- Provides a 'Report Migration Tasks' dialog to cause new information shipped in report types to be inherited into existing report definitions.

To create reports with the report generator, provide any input data along with an Assembler language mapping macro to map the input data. The DFSMSrmm samples use the DFSMSrmm extract data set, the System Management Facility (SMF) file, and the ACTIVITY file as input. DFSMSrmm mapping macros map the input data.

The report definitions and report types specify the format and contents of reports, the input files for the reports, and the tools used to create the reports. To use or modify a report, you work with report definitions as described in "Working with report definitions" on page 10. Create new report definitions for reports that are required by your users. Store the report definitions in the installation library to make the reports available to all your users from the installation library. To create a new report that uses input data other than the DFSMSrmm files, you work with report types as described in "Working with report types" on page 17.

The report generator samples use DFSORT ICETOOL as the default tool. The report generator creates a DFSORT ICETOOL job that you can run in batch. See "Working with reporting tools" on page 24 for information about specifying a tool for creating reports.

You store report definitions, report types, and the reporting tools in three separate libraries.

- The product library which contains predefined report definitions, report types, and reporting tools.
- The installation library which contains any versions that your installation has modified or created.
- The user library where any new or modified versions are stored.

The DFSMSrmm report generator also uses a JCL library to save and submit the DFSMSrmm-generated report JCL to run your reports.

Define all the libraries as partitioned data sets with fixed 80 byte records. When you do not allocate libraries, DFSMSrmm allocates the libraries automatically with a primary and secondary space of 10 tracks and 50 directory blocks. Specify the data set names as fully qualified names with single quotation marks or without quotation marks and a high-level qualifier. DFSMSrmm automatically expands the data set names to the fully qualified name including the single quotes. DFSMSrmm uses the RACF® user ID as the high level qualifier for the data sets if you do not specify NOPREFIX in the TSO profile. See "Specifying libraries for the report generator" on page 9 for information about setting up the libraries for the report generator.

When you install new function APARs onto your system for the report generator and then create or update any report types, reports, or tool definitions, you must ensure that any other system that uses those new or updated report types, reports, or tool definitions also has the new function installed.

Setting up the report generator for your installation

Here are steps for setting up the report generator for your installation.

- 1. Select the Report Options panel described in <u>"Specifying libraries for the report generator" on page 9.</u> Specify the installation library that you want to use as your user library. If you do not allocate the library, DFSMSrmm automatically allocates the library by using a primary space and secondary space of 10 tracks and 50 directory blocks
- 2. Specify the name of the JCL library and the product library. The product library by default is SYS1.SAMPLIB.
- 3. Set up the access lists for the libraries. Provide READ authority to the users of the installation libraries and the product libraries.
- 4. Return to the Report primary panel and select the Report Types panel. You can optionally customize the report types shipped with DFSMSrmm and set them up for your users as described in "Working with report types" on page 17. You can also add new report types for data other than data that are created by DFSMSrmm. For example, the report types shipped with the report generator include types for DCOLLECT and DFSMShsm reporting. The report type contains information about a specific type of record in an input data set, the Assembler language macro that defines the record format, and basic record selection criteria. For example, the report type "Extract Records for Data Sets" in the product library contains information about the data set record in the extract data set, the EDGRDEXT mapping macro, and the minimum subset definition of records that are used in the report. Report types contain only the base information from which report definitions are created.
- 5. Select the Report Definition panel to customize report definitions that are shipped with the product. The report definition is a report file that contains all of the information that is needed to run a report. Each report definition in the product library, installation library, or user library contains the report type information, reporting tool information, the data fields that are used in the report, and the sort order of the records. The report selection criteria specify the subset of records that are used for a report. The reporting tool is a REXX EXEC that builds control statements to create reports that use a reporting utility, such as DFSORT's ICETOOL. You can change the reporting tool at any time.
- 6. Customize the EDGRMAIN EXEC. The REXX variable names that you can customize all start with the characters 'cedggrdl'. Here is the section of the EDGRMAIN EXEC that you must customize.

```
/* Initialise Report library names */
address "ISPEXEC" "VGET ZPREFIX"
                                                                                            /*@09A*/
                                                                                            /*@09A*/
If length(zprefix) = 0 then
                                                                                             /*@10C*/
   edggpref = sysvar('SYSUID')
                                                                                             /*@09A*/
                                                                                             /*@10C*/
   edggpref = zprefix
                                                                                             /*@10C*/
cedggrdlu = "'"edggpref||".REPORT.LIB'"
cedggrdlj = "'"edggpref||".REPORT.JCL'"
cedggrdlp = "'SYS1.SAMPLIB'"
cedggrdli = ""
                                                                                               @10C*/
                                                          /* User Library
                                                           /* User JCL Library
                                                                                               @10C*/
                                                           /* Product Library
                                                                                               @10C*/
                                                           /★ Installation Library
                                                                                               @10A*/
```

- a. Define the installation library name and optionally customize the product library name in EXEC EDGRMAIN. There is no installation library name in the EXEC, so you must add the name.
- b. Update the default naming convention in EXEC EDGRMAIN for the user library name and the JCL library name, if necessary.

Steps for using the report generator

The system programmer or storage administrator might have created some specialized report definitions for your installation and placed them in the installation library. You can modify the report definitions, report types, and reporting tools that are found in the product library or the installation library. When you

modify a report definition, the report generator stores the modified report definitions in your user library. You can create new report definitions from report types or from existing report definitions.

These are the steps you follow to create reports by using the report generator.

- 1. Verify the user library names and the JCL library names that are defined in the Report Options panel. Allocate the libraries manually or automatically as described in "Specifying libraries for the report generator" on page 9.
- 2. Specify the product library name and the installation library name as described in <u>"Working with report definitions"</u> on page 10. Obtain the names from the person who set up the report generator for your installation.
- 3. Select the Report Type panel to add or to change report types that are shipped with DFSMSrmm as described in "Working with report types" on page 17.
- 4. Select the Report Definition panel to add or to change report definitions that are shipped with DFSMSrmm. See "Working with report definitions" on page 10 for more information.
- 5. Fill out the job card in the DFSMSrmm options panel. If you do not provide a job card, the report generator uses the ISPF job card, if one is available, otherwise, it generates a default job card.
- 6. Create the report JCL. See "Running a report generator report" on page 7 for more information.
- 7. Submit the report JCL.

Running a report generator report

Before you begin: Ask your system programmer or storage administrator for the name of an input data set for the report generator. You need this input data set to run your report. If you are running a DFSMSrmm-supplied report, you need an input data set created during the latest inventory management run. The input data set can be a DFSMSrmm extract data set, an SMF file, or an ACTIVITY report. You can use non-DFSMSrmm input data sets when there is a mapping of the records in the input data set.

You can run a report that is stored in the product library by using this procedure.

1. Select the REPORT option on the DFSMSrmm User Menu panel as shown in <u>Figure 2 on page 7</u>. Press the ENTER key. (Another way to select the REPORT option is for a storage administrator to select the 'G' 'Report Generation' option from the ISMF primary selection panel.)

Figure 2. Running a report using the DFSMSrmm User Menu panel

2. Type S next to the product library on the DFSMSrmm Report Definition Search panel shown in <u>Figure 3</u> on page 8. Press the ENTER key.

```
Panel Help

EDGPG010 DFSMSrmm Report Definition Search
Command ===>

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

User id . . . Leave blank for all user ids.

Select one or more library. Default is all defined libraries.
Libraries (enter S): Currently defined Libraries:
S User USER.REPORT.LIB
S Installation LOCAL.REPORT.LIB
S Product SYS1.SAMPLIB

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

Figure 3. Select the input data set in the product library using the DFSMSrmm Report Definition search panel

3. Select a report by typing G in the S column on the DFSMSrmm Report Definitions panel as shown in Figure 4 on page 8. Press the ENTER key.

Figure 4. Selecting a report using the DFSMSrmm Report Definitions panel

Note: If JCL help information exists for this report, then this information is displayed in a pop-up panel when panel EDGPG022 appears.

- 4. Specify these parameters in panel EDGPG022 as shown in Figure 5 on page 9.
 - The input data set name is mandatory. Enter the name of the input data set for the reporting step.
 - The date format is optional. Possible date format values are:
 - AMERICAN dates in format MM/DD/YYYY
 - EUROPEAN dates in format DD/MM/YYYY
 - ISO dates in format YYYY/MM/DD
 - JULIAN dates in format YYYY/DDD
 - free form The free form has a maximum length of 20 bytes and contains DD and MM
 (alternatively DDD), and YY or YYYY or CYY. The C (century) is set to 1 for years after 2000.
 These values can contain separator characters.
 - For American and European, mark the date fields in the report as containing a date (in the Report Controls panel which can be reached by pressing R next to the field in the report definition) in order to ensure that the dates are sorted in the correct order, and that comparison operators are applied correctly when selecting records based on the date.

For dates in the year 2000 and or in the 21st century or higher, you can only use the yyyy/ddd format. If you use the yyddd format, DFSMSrmm defaults to the 20th century. DFSMSrmm uses the date format to determine a real date based on the compare value &TODAY and the actual run date.

• Specify Y if you want to create report data rather than use an existing input data set. This adds an extra step in the generated JCL that creates an extract data set. The extract step includes relevant parameters like date format and input data set name. You can use the existing date format and input data set name. You can also change them by entering information in the Skeleton Variable_1, Skeleton Variable_2, and Skeleton Variable_3 fields.

If you are using the &TODAY variable for dates, the date format you specify for *Skeleton Variable_1* must match the date format specified in panel EDGPG022. If the date formats are not the same, report results can be unpredictable. You can use European, American, Julian and ISO date formats together with date comparison operators such as 'greater than' and 'less than'. For European and American date formats, ensure that the field is marked as a date in the Report Controls panel, which can be reached by pressing R next to the field in the report definition.

```
EDGPG022 DFSMSrmm Report Generation - SCRVOL
Command ===>

Enter or change the skeleton variables for the generated JCL:
Input data set . . . 'RMM.EXTRACT'

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

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

Additional skeleton variables, for example if an extract step is included:
Skeleton Variable 1 . DATEFORM(I)
Skeleton Variable 2 . 'D016216.RMMHSKP.MESSAGE'
Skeleton Variable 3 .

The skeleton selection depends on the reporting macro . . : EDGRXEXT
    and macro keyword . . : TYPE=V
Enter END command to start the report generation or CANCEL
```

Figure 5. Specifying the report generator parameters

The extract step for inventory management includes the DATEFORM parameter and a name for the DFSMSrmm message data set, which then is pre-allocated by the system, unless it already exists.

- 5. Press the END key to create the report.
- 6. Type J in the S column on the DFSMSrmm Report Definitions panel as shown in <u>Figure 6 on page 9</u>. Press the ENTER key.

Figure 6. Running your report using the DFSMSrmm Report Definitions panel

- 7. Change the DFSMSrmm-generated JCL as required and enter the SAVE command to save it in your JCL library.
- 8. Use the SUBMIT command to submit the job for batch processing.

Specifying libraries for the report generator

Follow these steps to specify the product library, installation library, or user library to be used with the report generator.

1. Select the OPTIONS option on the DFSMSrmm User Menu panel, as shown in Figure 7 on page 10. Press the ENTER key.

Figure 7. Selecting the options option on the DFSMSrmm User Menu panel

2. Select Option 3 on the DFSMSrmm Dialog Options Menu panel as shown in Figure 8 on page 10.

```
Panel Help

EDGP@OPT DFSMSrmm Dialog Options Menu
Option ===>3

1 USER - Specify processing options
2 SORT - Specify list sort options
3 REPORT - Specify report options
Enter selected option or END command. For more info., enter HELP or PF1.
```

Figure 8. Selecting the options option on the DFSMSrmm dialog options menu panel

3. Review the library names on the DFSMSrmm Report Options panel, as shown in Figure 9 on page 10. This panel shows the three libraries that you use to create reports and the JCL library where your JCL is stored. DFSMSrmm initializes the default user library name and JCL library name with your user ID and a default second-level qualifier. Your system programmer or storage administrator sets up the names for the product library and the installation library when the DFSMSrmm report generator is installed. You can change the product library name, installation library name, and the user library name. If you add any members to the product library, use member names that start with the ARCG or EDGG prefix. Use the END command to save your changes.

```
Panel Help

EDGP@OP3 DFSMSrmm Report Options
Command ===>

Report definition libraries:
    User . . . . . 'D094746.REPORT.LIB'
Installation . . . .
Product . . . . 'SYS1.SAMPLIB'

User report JCL library . 'D094746.REPORT.JCL'

DFSMSrmm allocates user libraries if they do not exist.
```

Figure 9. Specifying library names on the DFSMSrmm Report Options panel

Working with report definitions

You use report definitions to create reports with the report generator.

- 1. Select the REPORT option on the DFSMSrmm User Menu panel. Press the ENTER key.
- 2. Type S next to the libraries that you want to search on the DFSMSrmm Report Definition Search panel. Press the ENTER key. You can search for a report definition by name or by user ID. If you select more than one library and press the ENTER key, DFSMSrmm searches the libraries starting with the user library, the installation library, and then the product library. If DFSMSrmm finds duplicate report definition names, DFSMSrmm ignores all subsequent report definitions in the DFSMSrmm report definition list.

3. Enter a line command in the S column on the DFSMSrmm Report Definitions panel, as shown in <u>Figure</u> 10 on page 11 to perform one of these actions.

A

Add a report definition to your user library. See "Adding a report definition" on page 12.

Delete a report definition from your user library. See "Deleting a report definition" on page 17. If you delete a report definition that resides in the installation library or product library, the report definition is only removed from the report definition list, not from the library itself.

GGenerate and save the JCL to run the report. See "Running a report generator report" on page 7.

H View the Help information for this report.

S

Т

Edit and submit the report definition for batch processing. See "Running a report generator report" on page 7.

View the assembler listing, created by the report generator dialog assembling the macros and their keywords, if any. Use this listing to review any errors that may have occurred because you specified the macro or the keywords incorrectly. If more than one macro is specified for the report definition, then this listing shows the concatenated assembler listings.

Wiew the macro or macros specified for the report type. The report generator dialog uses the PDF View utility to enable you to see the macro source in the library you have specified. You can use this line command to review the entire macro and determine the keywords and values that might be valid.

N
Create a new report definition that uses an existing one. See "Modifying an existing report definition" on page 16.

Display or change a report definition. To change a report definition, See "Changing a report definition" on page 15. If you change a report definition that resides in the installation library or product library, DFSMSrmm stores the changed report definition in your user library, not the installation library or product library.

Select the reporting tool that you want to use for your report. See "Working with reporting tools" on page 24. If you change a report definition that resides in the installation library or product library, DFSMSrmm stores the changed report definition in your user library, not the installation library or product library.

EDGPG020 Command ===>	DFSMSrmm Report [Definitions	Row 1 to 17 Scroll ===>P	
The following	g line commands are valid: A,[O,G,H,J,L,M,N,S, and	d T	
S Name R	eport title	Report type	Us	ser id
ARCGAR01 AI ARCGDB01 DI ARCGDB01 SI ARCGS001 SI EDGGAUD2 SI EDGGAUD3 SI EDGGR01 SI EDGGR02 LI	BARS ARECOVER Statistics	SMF42 Records for N Extended Extract Re Extended Extract Re	ort HS BACKUP HS MIGRATION HS ecords HS lumes RM Volumes RM ecords RM ecords RM	SM SM SM SM MM MM MM MM

Figure 10. Selecting a report definition using the DFSMSrmm Report Definitions panel

Adding a report definition

To add a new report definition, you can modify an existing report definition or you can create a new report definition. To use an existing report definition, See "Modifying an existing report definition" on page 16. To add a new report definition to your library, follow this procedure.

1. Type A in the S column for any report on the DFSMSrmm Report Definitions panel as shown in <u>Figure</u> 11 on page 12. Press the ENTER key.

```
Panel Help

EDGPG020 DFSMSrmm Report Definitions Row 1 to 16 of 16 Command ===>

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

S Name Report title Report type User id

EDGGAUD1 SMF Audit of Volumes by Volser SMF Records for Volumes RMM
A EDGGR02 List of SCRATCH Volumes by Dat Extended Extract Records RMM
EDGGR03 Inventory List by Volume Seria Extended Extract Records RMM
EDGGR04 Inventory of Volumes by Locati Extended Extract Records RMM
EDGGR06 Inventory of Dataset by Locati Extended Extract Records RMM
EDGGR07 Inventory of Bin by Location Extended Extract Records RMM
EDGGR09 Datasets in Loan Location Extended Extract Records RMM
EDGGR01 List MultiVolume and MultiFile Extended Extract Records RMM
EDGGR12 Movement Report by Dataset Extended Extract Records RMM
EDGGR14 Movement Report by Volume Seri Extended Extract Records RMM
EDGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
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EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
EDGGGR15 Volume Inventory Including Vol Extended Extract Records RMM
```

Figure 11. Adding a report definition using the DFSMSrmm Report Definitions panel

2. Enter a one to eight character report name on the popup window that DFSMSrmm displays as shown in Figure 12 on page 12. Press the ENTER key.

```
EDGPG021

Enter the report name . . . . SCRVOL
```

Figure 12. Adding a report definition and specifying a report name

3. Type S in the S column on the Select Report Type panel shown in <u>Figure 13 on page 12</u> to select the report type you want to use for the new report. Press the ENTER key.

```
Panel Help
                 Select Report Type Row 1 to 12 o:
Scroll ===>PAGE
EDGPG030
                                                        Row 1 to 12 of 17
Command ===>
S Report type
                                           Name
  Extended Extract Records EDGRXEXT
   Extract Records for Bins
  Extract Records for Data Sets EDGRDEXT Extract Records for Owners EDGROEXT
Extract Records for Products
Extract Records for Racks
S Extract Records for Volumes
Extract Records for VRSs
                                             EDGRPEXT
EDGRREXT
                                             EDGRVEXT
                                             EDGRKEXT
         ACTIVITY file records
                                             EDGACTRO
  SMF Records for Bins
SMF Records for Data Sets
                                             EDGSSREC
                                             EDGSDREC
  SMF Records for Owners
                                             EDGSOREC
```

Figure 13. Adding a report definition using the Select Report Type panel

4. Type S in the S column on the Select Reporting Tool panel as shown in Figure 14 on page 13 to select the reporting tool that you want to use for the new report. Press the ENTER key.

Figure 14. Adding a report definition using the Select Reporting Tool panel

5. Select the fields that you want in your report by typing a number in the CO column. Begin with the number 1 on the DFSMSrmm Report Definition panel, as shown in Figure 15 on page 13.

```
Panel Help
                                            DFSMSrmm Report Definition - SCRVOL Row 1 to 22 of 214
Scroll ===>PAGE
FDGPG050
Command ===>
Report title . . . Scratch Volume List
Report footer . . IBM Internal
Reporting tool . : ICETOOL
Show minimum values: (N/Y)
Show maximum values: (N/Y)
Show counts : (N/Y)
                                                                                                                                                                                           Report width: 187
                                                                                                                      Show average values:
Show totals :
                                                                                                                     Show totals
                                                                           (N/Y)
Show counts : (N
Enter "/" to select option
        Edit the help information for this report
Use END to save changes or CANCEL The following line commands are valid: S, and R \,
S CO SO Field name
                                                                                             Column header text
                                                                                                                                                                                                                  CW Len Typ

        1A XVLCDATE
        Last change date of volume recor
        10 10 C

        XVVOLSER
        Volser
        6 6 C

        XVLCTIME
        Last change time of volume recor
        10 6 C

        XVEXPDTO
        Org. Exp. Date
        14 10 C

        XVEXPDT
        Expiration date - current
        10 10 C

        XVLCUID
        Last change user id of volume
        9 8 C

        XDDSNAME
        Data set name
        44 44 C

        RXTYPE
        Record type - C'X'
        6 1 C

        XVSTATUS
        Volume status
        8 8 C

        XDDSNSEQ
        Data set sequence number new
        9 5 C

        XVPVOL
        Previous volume in sequence
        9 6 C

        XVNVOL
        Next volume in sequence
        7 6 C
```

Figure 15. Adding a report definition using the DFSMSrmm Report Definition panel

The S column can display the following characters:

*

The field is already used as a record selection criteria.

The field has reporting control information.

&

The field is already used as a record selection criteria and has reporting control information.

Type one of these commands in the S column on one or more fields to:

R

View and update report control information.

S

Select a subset of input records for your report

and press the ENTER key.

6. Enter the record selection criteria on the DFSMSrmm Report Criteria panel, as shown in Figure 16 on page 14, to select a subset of the input records for your report. DFSMSrmm only includes the records that meet the criteria that you specify as input to your report. Use the Op (Operator) column to specify the logical operator that you want to use for comparing the field contents with the values in the Compare value(s) column. Use the Compare value(s) column to specify the values that you want to compare. Type the exact value that you want to compare because the comparisons are case-sensitive. The Compare value(s) field is a scrollable field, so that up to 100 characters can be entered. If you want to use the same field for a second criteria, press the END key after you have specified all compare values and select the field name again. DFSMSrmm displays the existing criteria and the field you

selected. Press the PF1 key with the cursor on any input field to display a help panel that describes the field and the values that you can use.

Figure 16. Adding a report definition using the DFSMSrmm Report criteria panel

7. Figure 17 on page 14 shows the values you have specified, with additional options for selection.

```
Field name . . . : RVLCDATE
Operation . . . . IN
Enter "/" to select additional options:
    Select from available equated values
Or enter compare value(s):
Compare value(s) . . . 1999/12/31,2000/01/31,2000/03/31,2000/04/30,2000/ +
Conjunction . . . AND
Substring position
Substring length . .
Orig field length : 10
Type . . . . . . C Original field type . . . : C
```

Figure 17. Adding a report definition using the DFSMSrmm Report Criteria Details panel

Add, change, or delete any of the values on this panel.

For some variables, such as XVVOLTYPE, EQUATEs are defined from which you can select a value. In this case, if you specify '/' in the "Select from available equated values" field, the Report Criteria Equates panel (EDGPG062) is displayed as shown in Figure 18 on page 14, from which you can select from the available values. If you select one or more of these values, they will be displayed on the EDGPG061 panel Compare values field when you return to it.

```
EDGPG062 DFSMSrmm Report Criteria Equates - MIKES

Field name . . . : XVVOLTYPE

Enter "S" to select equates:
S Equate name Description Value

s XVVOLTYPE_LOGICAL Logical volume L
s XVVOLTYPE_PHYSICAL Physical volume P
XVVOLTYPE_STACKED Stacked S
```

Equat

Figure 18. Selecting values using the DFSMSrmm Report Criteria Equates panel

Press the ENTER key to display your changes on the DFSMSrmm Report Criteria panel, as shown in Figure 16 on page 14.

8. Press the END key on the DFSMSrmm Report Criteria panel, as shown in Figure 16 on page 14, to save the report criteria and return to the DFSMSrmm Report Definitions panel that was shown in Figure 11 on page 12.

Related reading:

- 1. See "Working with reporting tools" on page 24.
- 2. See "Running a report generator report" on page 7.

Changing a report definition

To change a report definition and save it in your user library, follow this procedure.

1. Type S in the S column on the DFSMSrmm Report Definitions panel as shown in <u>Figure 19 on page 15</u>. Press the ENTER key. If you change a report definition, that resides in the product library or installation library, DFSMSrmm adds the changed report definition to your user library.

Figure 19. Changing a report definition using the DFSMSrmm Report Definitions panel

- 2. Select the fields that you want in your report by typing a number in the CO column. Begin with the number 1 on the DFSMSrmm Report Definition panel, as shown in Figure 20 on page 15. The fields are ordered from left to right across the report. The report definition name for the report that you selected appears in the title of the DFSMSrmm Report Definition panel. The panel displays the Report title, the Report footer, and the Reporting tool for this report. To group your data and produce a page break when the data content of the group field changes, enter a G (Group) in the CO column for the field name. Group field names do not appear as columns on the report, but appear as field names in the report header.
- 3. Enter the sort fields in numerical order, beginning with the number 1 in the SO (Sort Order) column. Then enter the direction of the sorted data. Because the data for a group field must be in sorted sequence, this field must have a sort entry in the SO column. For example, the report definition that is defined on this panel has six columns of data. The left-hand column contains the volume serial number. The right-hand column contains the data set name of the first file on the volume. The data is grouped by the last change date of the volume record with the earliest date appearing at the top of the report and a new page printed when the date changes.
- 4. Type S in the S column on one or more fields to select a subset of input records for your report and press the ENTER key. (An asterisk in the S column indicates that the field is already used as a record selection criteria.)

```
EDGPG050 DFSMSrmm Report Definition - BCKVOL Row 1 to 22 of 214
Command ===> Sackup Volume List, created on &RHCRDATE(1,49,10,CH) +
Report footer . IBM Internal
Reporting tool : ICETOOL Report width: 187
Show mainimum values: (N/Y) Show average values: (N/Y)
Show minimum values: (N/Y) Show totals : (N/Y)
Show counts : (N/Y)
Enter "/" to select option
Edit the help information for this report

Use END to save changes or CANCEL
The following line commands are valid: S, and R

S CO SO Field name Column header text CW Len Typ

* G 1A XVLCDATE Last change date of volume recor 10 10 C
1 XVVOLSER Volser 6 6 C
2 XVLCTIME Last change time of volume recor 10 6 C
3 XVEXPDIO 0rg. Exp. Date 14 10 C
4 XVEXPDI Expiration date - current 10 10 C
5 XVLCUID Last change user id of volume 9 8 C
4 XVEXPDI Expiration date - current 10 10 C
5 XVLCUID Last change user id of volume 9 8 C
4 XVEXPDI First file data set name 44 44 C
5 RXTYPE Record type - C'X' 6 1 C
6 XVPVOL Previous volume in sequence 9 6 C
6 XVNVOL Next volume in sequence 7 6 C
```

Figure 20. Changing a report definition using the DFSMSrmm Report Definition panel

5. Enter the record selection criteria on the DFSMSrmm Report Criteria panel, as shown in Figure 21 on page 16, to select a subset of the input records for your report. DFSMSrmm uses the records that meet your criteria as input to your report. Use the S column to order the listed fields from top to bottom or to add or change the record selection criteria. Use the Op (Operator) column to specify the logical operator that you want to use for comparing the field contents with the values in the Compare value(s) column. Use the Compare value(s) column to specify the values that you want to compare. Type the exact value you want to compare because the comparisons are case sensitive. The Compare value(s) field is a scrollable field, so that up to 100 characters can be entered. Use the Conj (Conjunction) column to specify how the fields are logically connected.

```
Panel Help
FDGPG060
              DFSMSrmm Report Criteria - BCKVOL
                                                                Row 1 to 4 of 4
Command ===>
                                                              Scroll ===>PAGE
Report title : Backup Volume List
Use END to save changes or CANCEL
The following line commands are valid: B,D,N,P,R,T, and I (for details)
Operators: EQ = NE <> GT > GE >= LT < LE <= IN BW SE SN BO BM BZ NO NM NZ
Conjunction: AND, OR, AND(, )AND
S Field name
                       Op Compare value(s)
                                                                    Conj Len Typ
                       IN 1999/12/31,2000/01/31,2000/03/31,2000/0 AND
I RVLCDATE
                                                                         44 C
10 C
  RVDSNAM1
                       SE BACKUP
                       BW 1999/01/01,2000/12/31
                                                                    AND
  RVTYPE
```

Figure 21. Changing a report definition using the DFSMSrmm Report Criteria panel

6. Add, change, or delete any of the values on the panel shown in <u>Figure 22 on page 16</u> and press the ENTER key. Your changes are displayed on the DFSMSrmm Report Criteria panel, as shown in <u>Figure 21</u> on page 16.

```
Field name . . . : RVLCDATE
Operation . . . . IN
Enter "/" to select additional options:
    Select from available equated values
Or enter compare value(s):
Compare value(s) . . 1999/12/31,2000/01/31,2000/03/31,2000/04/30,2000/ +
Conjunction . . . AND
Substring position
Substring length . .
Orig field length :
Length . . . . : 10
Type . . . . . . C Original field type . . . : C
```

Figure 22. Changing a report definition using the DFSMSrmm Report Criteria Details panel

7. Press the END key on the DFSMSrmm Report Criteria panel, as shown in <u>Figure 21 on page 16</u>, to save the report criteria and return to the DFSMSrmm Report Definitions panel that was shown in <u>Figure 19 on page 15</u>.

Related reading:

- 1. See "Working with reporting tools" on page 24.
- 2. See "Running a report generator report" on page 7.

Modifying an existing report definition

To modify an existing report definition, follow this procedure.

1. Type N in the S column on the DFSMSrmm Report Definitions panel as shown in Figure 23 on page 17. Press the ENTER key.

Figure 23. Copying a report definition using the DFSMSrmm Report Definitions panel

2. Enter a one to eight character report name in the popup window that DFSMSrmm displays as shown in Figure 24 on page 17. Press the ENTER key to save the copy in your user library.

```
EDGPG021

Enter the report name . . . . SCRALL
```

Figure 24. Copying a report definition and specifying a report name

DFSMSrmm creates a new entry in the report definition list for the report name that you have specified. You can now process the new entry with the available line commands, such as 'S' which enables you to modify the copied report definition.

Related reading:

- 1. See "Working with reporting tools" on page 24.
- 2. See "Running a report generator report" on page 7.

Deleting a report definition

To delete a report definition from your library, follow this procedure.

1. Type D in the S column on the DFSMSrmm Report Definitions panel as shown in <u>Figure 25 on page 17</u>. Press the ENTER key. If you delete a report definition that resides on the product library or installation library, DFSMSrmm removes the report from the DFSMSrmm report definition list, not from the library itself.

Figure 25. Deleting a report definition using the DFSMSrmm Report Definitions panel

2. Confirm the delete request on the popup window as shown on the panel in <u>Figure 26 on page 17</u>. Press the ENTER key to remove the report definition from your user library.

```
EDGPG023

Name . . : SCRALL
Use ENTER to confirm the Delete, else Cancel.
```

Figure 26. Deleting a report definition and confirming the delete

Working with report types

A report type contains information about a specific record type in the control data set, the mapping macro that defines the record format, and the record selection criteria that is used to select records for a

report. Use the DFSMSrmm Command Menu or enter the fastpath command REPORT on any ISPF panel to manage report types.

Creating a report type

L

To create a report type, follow this procedure.

- 1. Type R on the DFSMSrmm Command Menu to select the Report option. Press the ENTER key.
- 2. Select the REPORT TYPE option on the DFSMSrmm Report Generator panel as shown in <u>Figure 27 on</u> page 18. Press the ENTER key.

```
Panel Help

EDGPG000 DFSMSrmm Report Generator
Option ===>2

0 OPTIONS - Specify dialog options and defaults
1 REPORT - Work with reports
2 REPORT TYPE - Work with report types
3 REPORTING TOOL - Work with reporting tools
4 MIGRATION - Migration tasks for reporting
Enter selected option or END command. For more info., enter HELP or PF1.
```

Figure 27. DFSMSrmm Report Generator panel

- 3. Enter a line command in the S column on the DFSMSrmm Report Types panel, as shown in <u>Figure 28</u> on page 19, to perform one of these actions:
 - A Add a new report type to your library. See "Adding a report type" on page 19.
 - **C**Change a report type in your library. See "Changing a report type" on page 21.
 - Delete a report type from your library. See "Deleting a report type" on page 22.
 - **H**View the report type help information
 - View the assembler listing, created by the report generator dialog assembling the macros and their keywords, if any. Use this listing to review any errors that may have occurred because you specified the macro or the keywords incorrectly. If more than one macro is specified for the report definition, then this listing shows the concatenated assembler listings.
 - Wiew the macro or macros specified for the report type. The report generator dialog uses the PDF View utility to enable you to see the macro source in the library you have specified. You can use this line command to review the entire macro and determine the keywords and values that might be valid.
 - Add a new report from an existing report type. See <u>"Adding a new report definition from a report type"</u> on page 22.
 - **S**Specify new report type criteria. See "Specifying report type criteria" on page 19.

```
Panel Help
FDGPG200
                                          DFSMSrmm Report Types Row 1 to 4 of 17
Scroll ===>PAGE
Command ===>
The following line commands are valid: A,C,D,H,L,M,R, and S
                 Description
   ARCGWFSR DFSMShsm ABARS Report
Macro library . . : 'SYS1.MACLIB'
      Macro library . . : 'SYS1.MACLIB'
Applicable macros : ARCWFSR2
Input data set . : 'DFHSM.EXTRACT.ABARS.REFORMAT'
   ARCGDBCK DFSMShsm DCOLLECT BACKUP
      Macro library . : 'SYS1.MACLIB'
Applicable macros : ARCUTILP
Input data set. . : 'DFHSM.DCOLLECT.DATA'
   ARCGDDSD DESMShsm DCOLLECT DASD CAP
     Macro library . . : 'SYS1.MACLIB'
Applicable macros : ARCUTILP
Input data set. . : 'DFHSM.DCOLLECT.DATA'
   EDGRXEXT Extended Extract Records
      Macro library . .: 'SYS1.MACLIB'
Applicable macros : EDGRXEXT
Input data set. .: 'RMM.EXTRACT'
   EDGRSEXT Extract Records for Bins
      Macro library . : 'SYS1 MACLIB'
Applicable macros : EDGRSEXT
Input data set . : 'RMM.EXTRACT'
```

Figure 28. DFSMSrmm Report Types panel

Adding a report type

To add a new report type to your library, follow this procedure. Refer to <u>"Specifying report type criteria" on</u> page 19 for information about adding basic record selection criteria for this report type.

- 1. Type A in the S column to select a report type on the DFSMSrmm Report Types panel. Press the ENTER key to display the Add a Report Type panel, as shown in Figure 29 on page 19.
- 2. Enter a report type name and overwrite any other field on the Add a Report Type panel as shown in Figure 29 on page 19. You can optionally specify keywords for each of the macro names you enter. Specify the keywords and values using assembler syntax to avoid problems within the report generator. The macro keywords are used together with the macro name as input to the High Level Assembler and could be used to determine the subset of the possible range of mappings to be used for this report type. The macros specified can be in up to two macro libraries. Separate the libraries using a comma (,). Press the ENTER key to save the new report type in your user library. You can enter the input data set name later. DFSMSrmm prompts you to enter the input data set name when you generate and save your JCL or when you submit your report for processing. Ensure that you store any macro that you specify in the macro library before you define report type criteria or generate a report.

Figure 29. Adding a report type using the Add a Report Type panel

Specifying report type criteria

To specify report type basic record selection criteria, follow this procedure.

- 1. Type S in the S column for a report type on the DFSMSrmm Report Types panel. Press the ENTER key.
- 2. Type S in the S column on the DFSMSrmm Report Type panel as shown in Figure 30 on page 20 to select the fields to use in your selection criteria and press the ENTER key. An asterisk in the S column

indicates that the field is already used as a report selection criteria. The name of the report type that you selected appears in the title of this panel.

The **Typ** (field type) data column displays the data type of the field. You can override the data type of the field by specifying a new data type, which is saved in the report type. The data type is used during report record selection and for converting the data into the report. The original field type is saved and can be restored by deleting the current value.

Possible macro derived values are:

```
B
Bitstring (for example, X'A5FC39')

C
Character (for example, ABC or My Vol1)

N
Numeric (for example, 25)

Possible user specified values are:

F
Binary (length 1,2,4, or 8 bytes)

P
Packed

Z
Zoned decimal
```

Any valid data type supported by your reporting tool, such as DT1, TM2

```
Panel Help
FDGPG210
                    DFSMSrmm Report Type - EDGRXEXT Row 1 to 29 of 188
Command ===>
                                                                            Scroll ===> CSR
               : Extended Extract Records
Select a field name with S to specify a field selection criterion
S Field name
                           Column header text
* RXTYPE
  RXTYPE
XVVOLSER
XVPVOL
XVNVOL
XVSTVOL
XVMDNVID
                            Record type - C'X'
                            Volume serial number
                            Previous volume in sequence
Next volume in sequence
Stacked volume VolSer (SV/LV)
Multi-dataset multi-volume id
S XVCRDATE
                            Create date of volume record
```

Figure 30. Specifying report type criteria using the DFSMSrmm Report Type panel

3. Enter the record selection criteria on the DFSMSrmm Report Criteria panel, as shown in Figure 31 on page 21, to select a subset of the input records for your report. DFSMSrmm only includes the records that meet the criteria that you specify as input to your report. Press the PF1 key with the cursor on any input field and a help panel describes the field and the valid values to be used. Use the S column to order the listed fields from top to bottom or to add or change the record selection criteria. Use the Op (Operator) column to specify the logical operator that you want to use for comparing the field contents with the values in the Compare value(s) column. Use the Compare value(s) column to specify the values that you want compared. Type the exact value that you want to compare because the comparisons are case sensitive. The Compare value(s) field is a scrollable field, so that up to 100 characters can be entered. The I line command can be used to see the original field type, if it has been changed. Use the Conj (Conjunction) column to specify how the fields are logically connected.

Figure 31. Specifying report type criteria using the DFSMSrmm Report Type Criteria panel

4. Add, change, or delete any of the values on this panel and press the ENTER key to show your changes on the DFSMSrmm Report Criteria panel, as shown in Figure 31 on page 21.

```
EDGPG221 DFSMSrmm Report Type Criteria Details - EDGRVSCR

Field name . . . : RVTYPE
Operation . . . . EQ
Enter "/" to select additional options:
    Select from available equated values
Or enter compare value(s):
Compare value(s) . X
Conjunction . . AND
Substring position .
Substring length . .
Orig field length : 1
Type . . . . . . C Original field type . . : C
```

Figure 32. Specifying report type criteria using the DFSMSrmm Report Criteria Details panel

5. Press the END key on the DFSMSrmm Report Criteria panel, as shown in <u>Figure 31 on page 21</u>, to save the report criteria and to return to the DFSMSrmm Report Types panel that was shown in <u>Figure 28 on page 19</u>.

Related reading: See "Running a report generator report" on page 7.

Changing a report type

To change a report type in your library, follow this procedure. Refer to <u>"Specifying report type criteria" on</u> page 19 for information about adding basic record selection criteria for this report type.

- 1. Type C in the S column to select a report type on the DFSMSrmm Report Types panel. Press the ENTER key to display the Change a Report Type panel as shown in Figure 33 on page 22.
- 2. Overwrite any field except the report type name field on the Change a Report Type panel as shown in Figure 33 on page 22. Press the END key to save the changed report type in your user library. DFSMSrmm prompts you to enter the input data set name when you generate and save your JCL or when you submit your report for processing. If you change a report type that resides in the product library or installation library, DFSMSrmm adds the changed report type to your user library.

When you edit the help information for either a report type or a report definition, you view the existing help information and can change any of the existing information or add new information. The results are stored back into the report type definition. Help information from report types is automatically included into any report definitions created from the report type. Help information can also be inherited from a report type into an existing report definition.

Figure 33. Changing a Report type using the Change a Report Type panel

Deleting a report type

To delete a report type from your library, follow this procedure.

- 1. Type D in the S column for a report type that is displayed on the DFSMSrmm Report Types panel. Press the ENTER key.
- 2. Confirm the delete request on the popup window as shown in Figure 34 on page 22. Press the ENTER key to remove the report type from your user library. If you delete a report type that resides in the product library or the installation library, DFSMSrmm removes the report type from the report type list. DFSMSrmm does not remove the report type from the library.

```
EDGPG023

Name . .: SCRVOL
Use ENTER to confirm the Delete, else Cancel.
```

Figure 34. Deleting a Report type and confirming the delete

Adding a new report definition from a report type

To add a new report definition from an existing report type, follow this procedure.

- 1. Type R in the S column for a report type on the DFSMSrmm Report Types panel. Press the ENTER key.
- 2. Enter a one to eight character report name on the popup window as shown in Figure 35 on page 22. Press the ENTER key.

```
EDGPG021

Enter the report name . . . . MYREP1
```

Figure 35. Adding a new report definition from a report type and specifying a report name

3. Type S in the S column on the Select Reporting Tool panel as shown in <u>Figure 36 on page 22</u> to select a reporting tool. Press the END key to save the reporting tool with the report definition.

Figure 36. Adding a new Report definition from a Report type using the Select Reporting Tool panel

4. Select the fields that you want in your report by typing a number in the CO column. Begin with the number 1 on the DFSMSrmm Report Definition panel as shown in Figure 37 on page 23. The fields are ordered from left to right across the report. The report definition name for the report that you selected appears in the title of the DFSMSrmm Report Definition panel. The panel displays the Report title, the Report footer, and the Reporting tool for this report. To group your data and produce a page break when the data content of the group field changes, enter a G (Group) in the CO column for the field

- name. Group field names do not appear as columns on the report, but appear as field names in the report header.
- 5. Enter the sort fields in numerical order, beginning with the number 1 in the SO (Sort Order) column. Then enter the direction of the sorted data. Because the data for a group field must be in sorted sequence, this field must have a sort entry in the SO column. For example, the report definition that is defined on this panel has six columns of data. The left-hand column contains the volume serial number. The right-hand column contains the data set name of the first file on the volume. The data is grouped by the last change date of the volume record with the earliest date appearing at the top of the report and a new page printed when the date changes.
- 6. Type S in the S column on one or more fields to select a subset of input records for your report and press the ENTER key. An asterisk in the S column indicates that the field is already used as a report selection criteria.

```
Panel Help
EDGPG050
                         DFSMSrmm Report Definition - MYREP1 Row 1 to 22 of 214
                                                                                              Scroll ===> PAGE
Command ===>
Report title . . . My RMM Datasets
Report footer . . IBM Internal
Reporting tool . : ICETOOL
Show minimum values: (N/Y)
Show maximum values: (N/Y)
                                                                                         Report width: 105
                                                        Show average values:
Show totals :
                                                                                             (N/Y)
(N/Y)
                                    (N/Y)
Show counts
         ounts : (N "/" to select option
Enter "/" to select option
Edit the help information for this report
Use END to save changes or CANCEL
The following line commands are valid: S, and R
S CO SO Field name
                                             Column header text
                                                                                                    CW Len Typ
       2A XDDSNAME
                                                                                                      44 44 C
                                             Data set name
             XVVOLSER
                                             Volser
                                                                                                       6
             XDDSNSEQ
                                             FSEQ
    4
             XDCRDATE
                                            Create date
Create time
                                                                                                     11 10 C
11 6 C
             XDCRTIME
              XDCRSTD
                                             Create system
         1A XDOWNDSN
                                             Data set owner
                                                                                                       8
                                            Data set owner
Record type - C'X'
Previous volume in sequence
Next volume in sequence
Stacked volume VolSer (SV/LV)
Multi-dataset multi-volume id
             RXTYPE
             XVPV0I
              XVNVOL
             XVSTVOL
XVMDMVID
              XVCRDATE
                                             Create date of volume record
                                                                                                      10 10 C
                                             Create time volume record (hhmms
Create system id of volume recor
              XVCRTIME
                                                                                                      10
             XVCRSID
XVLCDATE
                                            Last change date of volume recor
Last change time of volume recor
                                                                                                          10 C
                                                                                                     10
                                                                                                          6 C
8 C
8 C
10 C
                                            Last change user id of volume
Last change system id of volume
              XVLCUID
                                                                                                      10
                                             Expiration date - original Expiration date - current
              XVEXPDT0
              XVEXPDT
                                                                                                      10
                                             Recording density
```

Figure 37. Adding a new report definition from a report type using the DFSMSrmm Report Definition panel

7. Enter the record selection criteria on the DFSMSrmm Report Criteria panel, as shown in Figure 38 on page 24, to select a subset of the input records for your report. DFSMSrmm only includes the records that meet the criteria that you specify as input to your report. Press the PF1 key with the cursor on any input field and DFSMSrmm displays a help panel that describes the field and the valid values that you should use. Use the S column to order the listed fields from top to bottom or to add or change the record selection criteria. Use the Op (Operator) column to specify the logical operator that you want to use for comparing the field contents with the values in the Compare value(s) column. Use the Compare value(s) column to specify the values that you want to compare. Type the exact value that you want to compare because the comparisons are case sensitive. The Compare value(s) field is a scrollable field, so that up to 100 characters can be entered. The I line command can be used to see the original field type, if it has been changed. Use the Conj (Conjunction) column to specify how the fields are logically connected.

Figure 38. Adding a new report definition from a report type using the DFSMSrmm Report criteria panel

8. Add, change, or delete any of the values on this panel and press the ENTER key to show your changes on the DFSMSrmm Report Criteria panel, as shown in Figure 38 on page 24.

```
EDGPG061 DFSMSrmm Report Criteria Details - MYREP1

Field name . . . : RDDSNAME
Operation . . . . EQ
Enter "/" to select additional options:
    Select from available equated values
Or enter compare value(s) . . BUDGET
Compare value(s) . .
Conjunction . . .
Substring position 8
Substring length . 6
Orig field length : 44
Type . . . . . . C Original field type . . . : C
```

Figure 39. Adding a new report definition from a report type using the DFSMSrmm Report Criteria Details panel

9. Press the END key on the DFSMSrmm Report Criteria panel, as shown in <u>Figure 38 on page 24</u>, to save the report criteria and return to the DFSMSrmm Report Types panel that was shown in <u>Figure 28 on page 19</u>.

Related reading: See "Running a report generator report" on page 7.

Working with reporting tools

A reporting tool is a combination of a REXX EXEC and an ISPF skeleton to build control statements for reporting utility, such as DFSORT's ICETOOL. The EXEC processes a report definition and uses an ISPF skeleton to generate the JCL to run the report job. You can add, change, or delete reporting tools in the report generator as described in these procedures.

Changing the reporting tool in a report definition

When you change the reporting tool defined in a report definition from the product library or installation library, DFSMSrmm stores the modified report definition in the user library. To change the reporting tool defined in a report definition, follow this procedure.

1. Type T in the S column on the DFSMSrmm Report Definitions panel as shown in Figure 40 on page 24. Press the ENTER key.

Figure 40. Selecting a reporting tool using the DFSMSrmm Report Definitions panel

2. Type S in the S column on the Select Reporting Tool panel, as shown in Figure 41 on page 25, to select a reporting tool. Press the END key to save the reporting tool with the report definition.

Figure 41. Selecting a reporting tool using the Select Reporting Tool panel

Adding a new reporting tool

To add a new reporting tool, follow this procedure.

1. From the DFSMSrmm Report Generator panel, select Option 3 and press the ENTER key.

```
Panel Help

EDGPG000 DFSMSrmm Report Generator
Option ===>3

0 OPTIONS - Specify dialog options and defaults
1 REPORT - Work with reports
2 REPORT TYPE - Work with report types
3 REPORTING TOOL - Work with reporting tools
4 MIGRATION - Migration tasks for reporting
Enter selected option or END command. For more info., enter HELP or PF1.
```

Figure 42. Adding a new reporting tool from the DFSMSrmm Report Generator panel

2. Type A in the S column next to any item in the reporting tool list and press the ENTER key.

Figure 43. Requesting the addition of a reporting tool

3. DFSMSrmm displays the Add a Reporting Tool panel shown in <u>Figure 44 on page 25</u>. Update the information and press the ENTER key to make the changes. In the example, MYSKEL is a skeleton that should be stored in a ISPF skeleton library.

```
EDGPG310 Add a Reporting Tool

Reporting tool . . MY OWN REPORTING TOOL
Exec . . . . . EDGRGGEN
Skeleton . . . . MYSKEL
Colspace . . . . 3
Group sort . . . U
```

Figure 44. An example of adding a tool called MY OWN REPORTING TOOL

Changing a reporting tool

To change a reporting tool in a library, follow this procedure.

1. Type C in the S column next to the reporting tool you want to change and press the ENTER key.

Figure 45. Changing a reporting tool

2. DFSMSrmm displays the Change a Reporting Tool panel shown in Figure 46 on page 26 in which you can specify the Exec name, the Skeleton name, the spacing between columns in a report, and the way groups are sorted in a report. Use the Colspace column to specify the number of spaces between the report columns. This value is dependent on the reporting tool used in the EXEC and is only considered for the calculation of the report width. The Colspace column values can be a decimal number between 0 and 9. Use the Group Sort column to specify how the reporting tool sorts grouped field names. Group sorting depends on the way the reporting utility you select sorts fields. For example, DFSORT's ICETOOL supports unique sorting while SAS** support is for mixed sorting. Specify U to sort all the grouped field names in either ascending or descending order. Specify M to sort grouped field names in mixed order with some groups in ascending order and some groups in descending order.

```
EDGPG320 Change a Reporting Tool

Reporting tool . . MY OWN REPORTING TOOL
EXEC . . . . . EDGRGGEN
Skeleton . . . MYSKELTT
Colspace . . . . 3
Group sort . . . U
```

Figure 46. Changing reporting tool values

Deleting a reporting tool

To delete a reporting tool from the list of reporting tools, follow this procedure.

1. Type D in the S column next to the reporting tool you want to remove from the list of reporting tools and press the ENTER key.

Figure 47. Deleting a reporting tool

2. DFSMSrmm displays the confirmation panel shown in <u>Figure 48 on page 26</u>. Press the ENTER key to confirm that you want to remove the reporting tool.

```
EDGPG023

Name . .: MY OWN REPORTING TOOL
Use ENTER to confirm the Delete, else Cancel.
```

Figure 48. Confirming the deletion of a reporting tool

Tailoring report tool ISPF skeletons

DFSMSrmm provides several ISPF skeletons that you can modify to suit your installation requirements. For example, you can use the DFSMSrmm-supplied skeletons EDGSGICE or EDGSGSYN to generate JCL to create reports using other report utilities. You can use the DFSMSrmm-supplied skeleton EDGSGEXT to create a job step to create the input for the reporting job step. The existing skeleton can create a DFSMSrmm extract file, extract SMF records, or create a DFSMSrmm ACTIVITY file. You need to tailor the

skeleton to perform processing based on the JCL and control statements required for your selected data and reporting utility.

The DFSMShsm supplied skeletons ARCGFSRC and ARCGWFSC are used by the generator to convert FSR and WWFSR records to FSR2 and WFSR2 records respectively. For details about reporting with DFSMShsm and DCOLLECT data, see the DFSMShsm section of *z/OS DFSMSdfp Storage Administration*.

Figure 49 on page 27 shows part of the EDGSGEXT skeleton that contains the SMF extract step. The ISPF variable &EDGGFILE contains the name of the input file for the reporting tool step that must be used as the name of the output file of the extract step.

```
Columns 00001 00072
    SYS1.DGTSLIB(EDGSGEXT) - 01.00
===>
                                                          Scroll ===>HALF
) CM *****************************
)SEL &EDGGMAC1 = EDGSMFAR ! &EDGGMAC1 = EDGSMFSR //STEP01 EXEC PGM=IFASMFDP
//INDD1 DD DSN=&EDGGVAR1,
// DISP=SHR
//OUTDD1 DD DSN=&EDGGFILE,
              UNIT=SYSALLDA,
DISP=(NEW,PASS),SPACE=(TRK,(5,5),RLSE)
//SYSPRINT DD SYSOUT=*
//SYSIN DD *
INDD(INDD1,OPTIONS(DUMP))
OUTDD(OUTDD1, TYPE(248:249))
)CM ******************************
)SEL &EDGGMAC1 = ANYTHING
)CM ADD YOUR REPORT DATA CREATION FILE JCL HERE AND CUSTOMIZE THE

)CM 'ANYTHING' TO YOUR MAPPING MACRO NAME OR USE ANY OTHER AVAILABLE

)CM ISPF VARIABLE TO SELECT THE JCL STEP
) ENDSEL
```

Figure 49. Adding an extract step by tailoring the EDGSGEXT ISPF skeleton

You could, for example, tailor the EDGSGICE skeleton to produce an XMIT job step in the JCL to send the completed report to the correct user on another system as shown in Figure 50 on page 27.

Figure 50. Adding an XMIT statement to Report JCL

The skeleton contains an XMIT step as shown in Figure 51 on page 27.

Figure 51. Setting up notification to a user ID

The DFSMSrmm-supplied skeletons include the DATECONV step where variable dates (&TODAY ...) are converted to real dates to be used in date comparisons. Here is how the dates are converted.

• A selection criteria contains &TODAY - 2 Months. DFSMSrmm builds an INCLUDE statement like this:

```
.. INCLUDE COND=((6,10,CH,LT,'&TODAY-002M')
```

The date format ISO was specified in the DFSMSrmm Report Generation panel.

- The report job was run on July 14th, 2013.
- The DATECONV step reads all INCLUDE statements and replaces the variable dates:

```
.. INCLUDE COND=((6,10,CH,LT,'2013/05/14')
```

The modified INCLUDE statements are input for the reporting tool step (for example for ICETOOL).

If you use the extract data set as input, you must use the DFSMSrmm date formats AMERICAN, EUROPEAN, ISO, or JULIAN. For other types of input, you can use DFSMSrmm date formats or a free form of the date format that you specify in panel EDGPG022. You must ensure that all date fields in the input data set that are selected with a variable date compare value (&TODAY), are in the same date format.

The DATECONV step issues messages to show the date conversion that took place during processing.

```
EDGRGDAT. RUNDATE: 26 Mar 2013 TIME: 03:23:45 STARTED

EDGRGDAT. DATE CALCULATIONS WILL BE DONE WITH THIS DATE FORMAT:

EDGRGDAT. DATE PATTERN:YYYY/MM/DD

EDGRGDAT. LINE 4: ((77,10,CH,GE,C'&TODAY-008M'),

EDGRGDAT. CHNGD: ((77,10,CH,GE,C'2012/07/26'),

EDGRGDAT. LINE 6: (77,10,CH,LE,C'&TODAY-002D')))

EDGRGDAT. CHNGD: (77,10,CH,LE,C'2013/03/24')))

EDGRGDAT. 12 CONTROL STATEMENTS CHECKED. 2 WITH &TODAY FOUND. 2 RECORDS MODIFIED.
```

Writing reporting tool EXECs

A reporting tool EXEC is a REXX EXEC that uses a report definition to create control statements for a report utility such as DFSORT's ICETOOL. The DFSMSrmm report generator uses the EXEC to process a report definition and uses an ISPF skeleton to generate the JCL to run the report. You need ISPF and REXX skills to code or update reporting tool EXECs to use a reporting utility other than DFSORT's ICETOOL. You can use DFSMSrmm-supplied reporting tool EXEC EDGRGGEN as a model for your processing. You can use ISPF skeletons to create the JCL to run your selected report utility. Tailor the skeletons to perform processing based on the JCL and control statements required for your selected reporting utility. When your reporting tool EXEC is called to generate the reporting JCL, the DFSMSrmm report generator has read the report definition and created REXX variables from the details within the definition. You must process these variables to create the reporting utility JCL and control statements. Refer to "Reporting tool REXX variables" on page 28 for the list of REXX variables that are created by the report generator for use by your reporting tool EXEC.

Reporting tool REXX variables

Table 3 on page 28 describes the REXX variables that you use when writing the reporting tool EXECs and indicates which ISPF table contains each variable.

Table 3. Report generator variables					
Variable Name (in which ISPF table)	Contents	Format			
EDGGAVG (In EDGGTVAR)	Show average values and group averages values for numeric fields.	1 Character: Y or N			
EDGGCNT (In EDGGTVAR)	Show counts and group counts.	1 Character: Y or N			
EDGGMAX (In EDGGTVAR)	Show maximums and group maximums for numeric fields.	1 Character: Y or N			
EDGGMIN (In EDGGTVAR)	Show minimums and group minimums for numeric fields.	1 Character: Y or N			

Variable Name (in which ISPF table)	Contents	Format
EDGGNOST (In EDGGTVAR)	Display statistics for numeric field.	1 Character: Y or N, or blank if not numeric
		N = no statistics
		Y = display statistics
EDGGTOT (In EDGGTVAR)	Show totals and group totals.	1 Character: Y or N
EDGGTVAR	Name of the "variable" ISPF table	Dynamically built. For example, EDGT23
EDGGTCON	Name of the "selection criteria" ISPF table	Dynamically built. For example, EDGT24
EDGGTEQU	Name of the "equates" ISPF table	Dynamically built. For example, EDGT25
EDGGALEN (in EDGGTVAR)	Variable substring length	1 to length of field or blank
EDGGAPOS (in EDGGTVAR)	Variable substring position	1 to length of field or blank
EDGGCLEN (in EDGGTCON)	Compare substring length	1 to length of field or blank
EDGGCNAM (in EDGGTCON)	Criteria field name	66 character
EDGGCOMP (in EDGGTCON)	Comparison operator	2 character
EDGGCOMV (in EDGGTCON)	Compare values	100 character
EDGGCONJ (in EDGGTCON)	Conjunction operator	4 character - 'AND', 'OR', 'AND(', ')AND'
EDGGCPOS (in EDGGTCON)	Compare substring position	1 to length of field or blank
DGGDFMT	Date pattern	20 character
EDGGENAM (in EDGGTEQU)	Field name	66 character
EDGGEQMA (in EDGGTEQU)	Macro flag	1 character, M if macro-originated
DGGEQNA (in EDGGTEQU)	Equate name	28 character
EDGGEQSE (in EDGGTEQU)	Flag: selected for field replacement	1 character, S if selected
EDGGEQVA (in EDGGTEQU)	Equate value	11 character
DGGEQVC (in EDGGTEQU)	Equate change value	11 character
EDGGEXYN	Extract step requested	Y or N
EDGGFILE	Input file	44 character
EDGGFDAT	Field contains date	1 Character: Y, N, or blank if does not contain date. Mark a field as containing a date when working with the European and American date formats to ensure that the dates are sorted in the correct order, and that comparison operators are applied correctly when selecting records based on the date

Table 3. Report generator variables (continued) Variable Name (in which ISPF Contents Format					
table)	Contents	Tormat			
EDGGMAC1 - 5	Macro name	8 character			
EDGGMACL	Macro library	44 character			
EDGGMCP1 - 5	Macro keyword parameter	60 character			
EDGGOVTY (in EDGGTVAR)	Field type	3 characters, for example, "C" for character, or a data type which is accepted by the reporting tool			
EDGGRDES	Report title	117 character			
EDGGRFOT	Report footer	59 character			
EDGGRDLJ	Report JCL library	44 character			
EDGGRDLI	Installation Report def. lib.	44 character			
EDGGRDLP	Product Report def. lib.	44 character			
EDGGRDLU	User Report def. lib.	44 character			
EDGGRNAM	Report name	8 character			
EDGGROID	Report originator ID	8 character			
EDGGRCID	Report last change ID	8 characters			
EDGGRTD	Reporting tool name	30 characters			
EDGGRTN	Reporting tool name (EXEC)	8 characters			
EDGGRTSK	Reporting tool skeleton name	30 characters			
EDGGTDES	Report type description	30 characters			
EDGGTNAM	Report type name	8 characters			
EDGGVAR1 - 3	Skeleton variable 1 -3	50 characters			
EDGGVCO (in EDGGTVAR)	Column order or group field	1 to 99 or G			
EDGGVCW (in EDGGTVAR)	Column width	1 to 999			
EDGGVDES (in EDGGTVAR)	Column header text taken from the macro variable description	37 characters			
EDGGVL (in EDGGTVAR)	Macro variable length	1 to 999			
EDGGVNAM (in EDGGTVAR)	Field name	66 characters			
EDGGVPOS (in EDGGTVAR)	Field position (offset)	1 to 99999			
EDGGVSO (in EDGGTVAR)	Sort order	1 to 99			
EDGGVSD (in EDGGTVAR)	Sort direction	1 character - A or D			
EDGGVTYP (in EDGGTVAR)	Field type	1 character - Character, Decimal, o Hex			
EDGXOVTC (in EDGGTCON)	Compare field type	3 characters, for example, "C" for character, or a data type that is accepted by the reporting tool			

Creating a report that contains statistics and counts

You can use the DFSMSrmm-supplied reporting tool EXEC EDGRGGEN to create a report that generates:

- The MINIMUM statement, which contains the text "MINIMUM:"
- The BMINIMUM: statement, which contains the text "GROUP MINIMUM:"
- The MAXIMUM statement, which contains the text "MAXIMUM:"
- The BMAXIMUM: statement, which contains the text "GROUP MAXIMUM:"
- The AVERAGE statement, which contains the text "AVERAGE:"
- The BAVERAGE: statement, which contains the text "GROUP AVERAGE:"
- The TOTAL statement, which contains the text "TOTAL:" The BTOTAL statement, which contains the text "GROUP TOTAL:"

The above ICETOOL statistics statements will be generated when the report contains a column with numeric values, if the appropriate (Show minimum values, Show maximum values, Show average values, and/or Show totals) options are selected on the DFSMSrmm Report Definition panel.

The statements COUNT and BCOUNT will be generated if you enter Y in the field "Show counts" on the DFSMSrmm Report Definition panel.

The report footer information is independent of the TOTAL statement, and is displayed at the end of the report using the following statement: COPY FROM(FOOTERDD) TO(OUTDD).

Figure 52 on page 31 shows the panel that produces the JCL shown in Figure 53 on page 32.

```
EDGPG050
                  DFSMSrmm Report Definition - COUNT07
                                                                        Row 1 to 22 of 214
  Command ===>
                                                                                   Scroll ===> PAGE
Report title . . . List of Data Sets (Size + Usage)
Report footer . . IRM Removable Media Manager
Reporting tool . : ICETOOL Report
Show minimum values: Y (N/Y) Show average values: Y (N/Y)
Show counts : Y (N/Y)
                                                                                Report width: 70
  Enter "/" to select option
      Edit the help information for this report
Use END to save changes or CANCEL
The following line commands are valid: S, and R
S CO SO Field name
                                       Column header text
                                                                                          CW Len Typ
   G 1A XVVOLSER Volume
1 2A XDDSNAME Dataset
2 XDDSSIZE Approx.
3 XVTUSE Tape us
RXTYPE Record
XVPVOL Previou
                                       Dataset name
                                       Approx. size of file Kbytes
Tape usage in Kbytes
Record type - C'X'
                                                                                           10 10 N
                                                                                          10 10 N
                                      Record type - C'X'
Previous volume in sequence
```

Figure 52. Defining a Report that shows column totals

When a numeric field is defined as C (character) in the applied macro, you can override the data type with ZD (zoned decimal) to obtain the total for the column. In <u>Figure 53 on page 32</u>, no change is required because the field XDDSSIZE is already declared as a numeric field. You could also change other lines in the JCL like text used for the statistics statements.

```
//TOOLIN DD *
SORT FROM(INDD) TO (TEMP) USING(INCL)
DISPLAY FROM(TEMP) LIST(OUTDD) -
TITLE(VT1) -
TITLE(VT2) -
TITLE(VT2) -
TITLE(Size of data sets per volume') -
PAGE DATE(4MD/) TIME -
HEADER('Data set name') -
ON(12,44,CH) -
HEADER('Size of file Kbytes') -
ON(57,10,ZD,A0) -
HEADER('Tape usage','in Kbytes') -
ON(68,10,ZD,U10,NOST)
BTITLE('Volume serial number') -
BREAK(S,7,CH) -
BMINIMUM('GROUP MAXIMUM:') -
BMAXIMUM('GROUP MAXIMUM:') -
BAVERAGE('GROUP AVERAGE:') -
BTOTAL ('GROUP TOTAL:') -
BCOUNT('GROUP COUNT:') -
BLANK -
MINIMUM('MINIMUM:') -
MAXIMUM('MAXIMUM:') -
AVERAGE('AVERAGE:') -
TOTAL('TOTAL:') -
COUNT('COUNT:')
COPY FROM(FOOTERDD) TO(OUTDD)
```

Figure 53. ICETOOL statements

The statements produce the sectioned report shown in Figure 54 on page 33.

```
List of Data Sets (Size + Usage)
                                                           - 1 -
                                                                         2016/12/09
Extract file was created on 2016/181 at 011308
Volume RFA016
Dataset name
                                                     Approx.
                                                                  in Kbytes
                                                 file Kbyte
RMMTST.DSN.TEMP1
                                                        1563
                                                                      5079
RMMTST.DSN.TEMP2
RMMTST.DSN.TEMP3
                                                        2344
GROUP MINIMUM:
                                                        1172
GROUP MAXIMUM:
                                                        2344
GROUP AVERAGE:
                                                        1693
GROUP TOTAL:
                                                        5079
GROUP COUNT:
List of Data Sets (Size + Usage)
                                                           - 2 -
                                                                        2016/12/09
Extract file was created on 2016/181 at 011308
Volume REA017
                                                                Tape usage in Kbytes
Dataset name
                                                     Approx.
                                                  file Kbyte
RMMTST.DSN.TEMP5
                                                        2735
                                                                      4689
GROUP MINIMUM:
                                                        1954
GROUP MAXIMUM:
                                                        2735
GROUP AVERAGE:
                                                        2344
GROUP TOTAL:
                                                        4689
GROUP COUNT:
List of Data Sets (Size + Usage)
                                                                        2016/12/09
                                                           - 3 -
Extract file was created on 2016/181 at 011308
Volume RFA018
                                                                Tape usage
in Kbytes
Dataset name
                                                     Approx.
                                                 file Kbyte
                                                                       4688
RMMTST.DSN.TEMP7
GROUP MINIMUM:
                                                         391
GROUP MAXIMUM:
                                                        4297
                                                        2344
GROUP AVERAGE:
GROUP TOTAL:
                                                        4688
GROUP COUNT:
List of Data Sets (Size + Usage)
                                                           - 4 -
                                                                        2016/12/09
Extract file was created on 2016/181 at 011308
                                                     Approx.
                                                                 in Kbytes
                                                     size of
                                                 file Kbyte
MINIMUM:
                                                         391
MAXIMUM:
                                                        4297
AVERAGE:
                                                        2065
TOTAL:
                                                       14456
RMM Removable Media Manager
```

Figure 54. Sectioned Report

A numeric field can be excluded from calculating all statistics. For that, select the field in the Report Definition panel with an R, and you get the Reports Controls panel for this field. If an N is entered for "Show statistics if numeric" the minimum, maximum, and average values as well as totals will not be displaying for the field.

Creating a dataset instead of a report

If you use the reporting tool DFSORT, the output is not a report, but rather reformatted records. The JCL generated by the reporting tool includes comments that contain DFSORT symbol definitions, so that you can easily process the record further using DFSORT or ICETOOL. The name of the output dataset can be provided by Skeleton Variable_3 on the Report Generation panel EDGPG022.

Using report generator sample report types and sample report definitions

All of the shipped report types and report samples are provided in internal form in SAMPLIB. The report generator manages the provided types and samples along with all your own customized reports and JCL and enables you to generate and run the JCL for the SAMPLIB reports. The report generator also enables you to customize or copy a sample for your own use. During the report generation an extract or a conversion step can be optionally added. The extract JCL skeletons are provided in DGTSLIB. You can modify a shipped skeleton by copying it to a pre-concatenated ISPF skeleton library (ISPSLIB allocation). To use different skeleton JCL for your customized reporting you can modify existing reporting tool definitions or by adding new reporting tool definitions.

Sample report types

ARCGDBCK

DFSMShsm DCOLLECT BACKUP

Applicable macros: ARCUTILP Macro keyword: IDCDOUT=NO,TYPE=B

Skeleton: within EDGSGEXT

ARCGDDSD

DFSMShsm DCOLLECT DASD CAP

Applicable macros: ARCUTILP Macro keyword: IDCDOUT=NO,TYPE=C

Skeleton: within EDGSGEXT

ARCGDMIG

DFSMShsm DCOLLECT MIGRATION

Applicable macros: ARCUTILP Macro keyword: IDCDOUT=NO,TYPE=M

Skeleton: part of EDGSGEXT

ARCGDTAP

DFSMShsm DCOLLECT TAPE CAP

Applicable macros: ARCUTILP Macro keyword: IDCDOUT=NO,TYPE=T

Skeleton: within EDGSGEXT

ARCGFSR2

DFSMShsm FSR-SMF Records **Applicable macros:** ARCFSR2

Skeleton: ARCGFSRC

ARCGWFSR

DFSMShsm ABARS Report

Applicable macros: ARCWFSR2

Skeleton: ARCGWFSC

DCOLLECT

DFSMS DCOLLECT for Data Sets

Applicable macros: IDCDOUT Macro keyword: TYPE=D

Skeleton: within EDGSGEXT

EDGACTRC

HSKP ACTIVITY file records

Applicable macros: EDGACTRC

Skeleton: within EDGSGEXT, call of inventory management VRSEL

EDGRDEXT

Extract Records for Data sets

Applicable macros: EDGRDEXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGRKEXT

Extract Records for VRSs

Applicable macros: EDGRKEXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGROEXT

Extract Records for Owners

Applicable macros: EDGROEXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGRPEXT

Extract Records for Products

Applicable macros: EDGRPEXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGRREXT

Extract Records for Racks

Applicable macros: EDGRREXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGRSEXT

Extract Records for Bins

Applicable macros: EDGRSEXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGRVEXT

Extract Records for Volumes

Applicable macros: EDGRVEXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGRXEXT

Extended Extract Records

Applicable macros: EDGRXEXT

Skeleton: within EDGSGEXT, call of inventory management RPTEXT

EDGSMFSR

SMF Security Records

Applicable macros: EDGSMFSR

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

EDGSDREC

SMF Records for Datasets

Applicable macros: EDGSMFAR EDGSDREC

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

EDGSKREC

SMF Records for VRSs

Applicable macros: EDGSMFAR EDGSKREC

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

EDGSOREC

SMF Records for Owners

Applicable macros: EDGSMFAR EDGSOREC

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

EDGSPREC

SMF Records for Products

Applicable macros: EDGSMFAR EDGSPREC

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

EDGSRREC

SMF Records for Racks

Applicable macros: EDGSMFAR EDGSRREC

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

EDGSSREC

SMF Records for Bins

Applicable macros: EDGSMFAR EDGSSREC

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

EDGSVREC

SMF Records for Volumes

Applicable macros: EDGSMFAR EDGSVREC

Skeleton: within EDGSGEXT, call of SMF dump for type 248:249

IGWSMFS

SMF42 Security Records

Applicable macros: IGWSMF

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

IGWSMFAD

SMF42 Records for Data Sets

Applicable macros: IGWSMF EDGSDREC

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

IGWSMFAK

SMF42 Records for VRSs

Applicable macros: IGWSMF EDGSKREC

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

IGWSMFAO

SMF42 Records for Owners

Applicable macros: IGWSMF EDGSOREC

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

IGWSMFAP

SMF42 Records for Products

Applicable macros: IGWSMF EDGSPREC

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

IGWSMFAR

SMF42 Records for Racks

Applicable macros: IGWSMF EDGSRREC

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

IGWSMFAS

SMF42 Records for Bins

Applicable macros: IGWSMF EDGSSREC

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

IGWSMFAV

SMF42 Records for Volumes

Applicable macros: IGWSMF EDGSVREC

Skeleton: within EDGSGEXT, call of SMF dump for type 42, subtypes 22:23

Sample report definitions

ARCGAB01

ABARS ABACKUP Statistics

Type: ARCGWFSR DFSMShsm ABARS Report

Usage: See DFSMShsm manual

ARCGAR01

ABARS ARECOVER Statistics

Type: ARCGWFSR DFSMShsm ABARS Report

Usage: See DFSMShsm manual

ARCGDB01

DCOLLECT BACKUP DATA

Type: ARCGDBCK DFSMShsm DCOLLECT BACKUP

Usage: See DFSMShsm manual

ARCGDD01

DCOLLECT DASD CAPACITY PLANNING

Type: ARCGDDSD DFSMShsm DCOLLECT DASD CAP

Usage: See DFSMShsm manual

ARCGDM01

DCOLLECT MIGRATION DATA

Type: ARCGDMIG DFSMShsm DCOLLECT MIGRATION

Usage: See DFSMShsm manual

ARCGDT01

DCOLLECT TAPE CAPACITY PLANNING

Type: ARCGDTAP DFSMShsm DCOLLECT TAPE CAP

Usage: See DFSMShsm manual

ARCGS001

Statistics for DFSMShsm

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS002

Statistics for Backup

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS003

Statistics for Migration

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS004

Statistics for Recall

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS005

Statistics for Recovery

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS006

Statistics for Volume Dump

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS007

Statistics for Restore from Dump Copy

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS008

Statistics for FRBACKUP

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS009

Statistics for FRRecover

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS010

DFSMShsm Thrashing Report

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

ARCGS011

Statistics for Class Transition

Type: ARCGFSR2 DFSMShsm FSR-SMF Records

Usage: See DFSMShsm manual

EDGGAHLD

Held Volumes by Volume Serial

Type: EDGRXEXT Extended Extract Records

Usage: Lists all volumes where the Hold attribute is set.

EDGGAUD1

SMF Audit of Volume by Volser

Type: EDGSVREC SMF Records for Volumes

Usage: List of SMF records type 248, sorted by volser

EDGGAUD2

SMF Audit of Volume by Rack

Type: EDGSVREC SMF Records for Volumes

Usage: List of SMF records type 248, sorted by rack

EDGGAUD3

SMF42 Audit of Volumes by Vols

Type: IGWSMFAV SMF42 Records for Volumes

Usage: List of SMF records type 42, sub type 22, sorted by volser

EDGGAUD4

SMF42 Audit of Volume by Rack

Type: IGWSMFAV SMF42 Records for Volumes

Usage: List of SMF records type 42, sub type 22, sorted by rack

EDGGBESK

Data sets containing an encryption key index (BESKEY)

Type: EDGRXEXT Extended Extract Records

Usage: Lists all data sets where the XDBESKEY field is not blank or 0.

EDGGDCDS

DCOLLECT for Data Sets

Type: DCOLLECT DCOLLECT for Data Sets

Usage: List of IDCAMS DCOLLECT data, sorted by storage group

EDGGDSNM

Mixed Case data sets Retained by VRS

Type: EDGRXEXT Extended Extract Records

Usage: Helps to identify mixed case data sets that are retained by upper case DSNAME VRSes in release 1.8 and lower.

EDGGREPL

Volumes to be replaced

Type: EDGRXEXT Extended Extract Records

Usage: Volumes are selected if pending release with the REPLACE action or if the release action is set to REPLACE.

EDGGREPV

Volumes to be replaced based on defined criteria

Type: EDGRXEXT Extended Extract Records

Usage: Provides a customizable report that can identify volumes that should be replaced, based on criteria you select. The sample report is set up to select volumes if one or more of the following is detected:

- Write mount count >99
- >25 years old and >50% used
- Temporary write errors >20
- Permanent write errors >1

This report is provided to help define the criteria in your Volume Replacement Policies.

EDGGR01

Scratch tapes by volume serial

Type: EDGRXEXT Extended Extract Records

Usage: List of scratch volumes

EDGGR02

List of SCRATCH Volumes by Data Set Name

Type: EDGRXEXT Extended Extract Records

Usage: List of scratch volumes, sorted by data set name

EDGGR03

Inventory List by Volume Serial

Type: EDGRXEXT Extended Extract Records **Usage:** List of volumes sorted by volser

EDGGR04

Inventory List by Dataset Name

Type: EDGRXEXT Extended Extract Records Usage: List of volumes sorted by data set

EDGGR06

Inventory of Volumes by Location

Type: EDGRXEXT Extended Extract Records **Usage:** List of volumes sorted by location

EDGGR07

Inventory of Dataset by Location

Type: EDGRXEXT Extended Extract Records

Usage: List of volumes sorted by data set and location

EDGGR08

Inventory of Bin by Location

Type: EDGRXEXT Extended Extract Records **Usage:** List of bin numbers sorted by location

EDGGR09

Datasets in Loan Location

Type: EDGRXEXT Extended Extract Records

Usage: List of volumes in loan location sorted by location and data set name

EDGGR10

Volumes in Loan Location

Type: EDGRXEXT Extended Extract Records

Usage: List of volumes in loan location sorted by location and volser

EDGGR11

List MultiVolume and MultiFile Sets

Type: EDGRXEXT Extended Extract Records

Usage: List of volumes containing more than one data set or only a part of a data set

EDGGR12

Movement Report by Dataset

Type: EDGRXEXT Extended Extract Records

Usage: List of volumes with a filled volume destination field sorted by data set

EDGGR13

Movement Report by Bin

Type: EDGRXEXT Extended Extract Records

Usage: List of all volumes sorted by destination location, origination location, and bin number

EDGGR14

Movement Report by Volume Serial

Type: EDGRXEXT Extended Extract Records

Usage: List of volumes with a filled volume destination field sorted by volser

EDGGR15

Volume Inventory Including Volume Count

Type: EDGRXEXT Extended Extract Records

Usage: List of all volumes and data sets sorted by volser and data set sequence number

EDGGR16

List of Data Sets blocked by DSNEXPIRE(BLOCK)

Type: EDGRXEXT Extended Extract Records

Usage: List of data sets that are blocked by the DSNEXPIRE(BLOCK) option, sorted by volser and data

set sequence number

EDGGSEC1

Report of Accesses to Secure Volumes

Type: EDFSMFSR SMF Security Records

Usage: List of SMF records type 249

EDGGSEC2

SMF42 Report of Accesses to Secure Volumes

Type: IGWSMFS SMF Security Records

Usage: List of SMF records type 42, sub type 23

Migration tasks for reporting

Using the Report Migration Tasks panel you can compare report types, reports, check for inheritance of new information and criteria, and merge report types. You might use these migration tasks as you migrate to a new release of z/OS or after maintenance has been installed that enhances or corrects the distributed report types and reports.

Note: To avoid loss of existing customized reports or report types in your user library, consider allocating and using an alternative data set for the user library when performing the migration tasks.

When you compare report types, DFSMSrmm checks the report type level between the source and compare report types and report definitions. Only those report types which are common to the source and compare libraries are compared. DFSMSrmm compares report type level, library and macro names, description, RDW setting, input data set name, help information, and field data types. You can select the report type information which should be copied from source to target library, and then select the report types and definitions to be processed. The updated report types are stored on the User library.

To perform one of the report migration tasks, follow this procedure:

- 1. Type R on the DFSMSrmm Command Menu to select the Report option. Press the ENTER key.
- 2. Select the MIGRATION option on the DFSMSrmm Report Generator panel as shown in <u>Figure 55 on page 42</u>. Press the ENTER key.

```
Panel Help

EDGPG000 DFSMSrmm Report Generator
Option ===>4

0 OPTIONS - Specify dialog options and defaults
1 REPORT - Work with reports
2 REPORT TYPE - Work with report types
3 REPORTING TOOL - Work with reporting tools
4 MIGRATION - Migration tasks for reporting
Enter selected option or END command. For more info., enter HELP or PF1.
```

Figure 55. DFSMSrmm Report Generator panel - migration tasks

- 3. Select Source (S) and Compare (C) libraries on the DFSMSrmm Report Migration Tasks panel, as shown in Figure 56 on page 43, to perform one of these actions:
 - 1 Compare report types.
 - **2** Compare report definitions.
 - **3** Check report type inheritance.
 - **4**Merge report types from installation library to user library.

Figure 56. DFSMSrmm Report Migration Tasks panel

Use the L line command to view the results of the compare.

```
Report Generator - Report Type differences
Level Library
                                                     2011/03/17 08:20
                           EDGRSEXT 01.11.00 Product SYS1.SAMPLIB
Source: Report type
Compare: Report type
                           EDGRSEXT none
                                             Installation LOCAL.REPORT.LIB
==> Differences found with: Record selection criteria
    The specific differences are not shown here. Please display the
    Source report type and the compare report type for details.
N- RSTYPE
             refer to source report type
0- RSTYPE
             refer to compare report type
N- RSTYPE2
            missing in source report type
==> Differences found with: Data type information (with field and/or selection criteria)
N- DCUTIME TM1
O- DCUTIME
==> No differences found with: Macros, macro libraries and keywords
==> No differences found with: RDW setting
==> Differences found with: Help for report type
N- Here appears the full new text
O- Here appears the full old text
O- Here appears the full old text
O- Here appears the full old text
==> No differences found with: Help for report
==> No differences found with: Help for JCL generation
*********************** Bottom of Data ********************
```

Use the S line command to enter the report type dialog for the selected source report type – the EDGPG200 panel is displayed.

Use the C line command to enter the report dialog for the compare report type – the EDGPG200 panel is displayed.

When you specify the U line command you can select which information is used to update the report type from the compare library with selected information from the report type in the source library. The updated report types are stored on the user library.

```
Panel Help

EDGPG412 DFSMSrmm Report Type Compare
Command ===>

Source report type . : EDGRVEXT Compare report type . . . . : EDGRVEXT
Enter "/" to select the values to be copied:
Report type level
Help for report type
Help for report
Help for JCL generation
Data type information
Macros, macro libraries and keywords
RDW setting
Record selection criteria
```

You can select to copy the report type level to the target report type so that you know that you have reviewed and applied all the changes you want.

When you compare report definitions, DFSMSrmm checks the report type and level used between the source and compare report definitions. Only those reports that are common to the source and compare libraries are compared. DFSMSrmm compares report type level, last change user ID, library and macro names, description, RDW setting, input data set name, report title, selection compare fields and values, sort fields and direction, report column information, help information, and field data types. You can select the report definition information to be copied from source to compare library and then select the report definitions to be processed. The updated report definitions are stored on the user library.

Use the L line command to view the results of the compare.

```
[part panel only]
Report Generator - Report definition differences Level Library
Source: Report definition AA1186 01.11.00 Product SYS1.SAMPLIB
Compare: Report definition AA1186 none User MY.REPORT.LIB
==> Differences found with: Record selection criteria
    The specific differences are not shown here. Please display the
   report definitions for details.
N- RSTYPE refer to source report definition
             refer to compare report definition
0- RSTYPE
N- RSTYPE2 missing in compare report definition
==> Differences found with: Data type information (with field and/or selection criteria)
N- DCUTIME TM1
O- DCUTIME
==> No differences found with: Macros, macro libraries and keywords
==> No differences found with: RDW setting
==> No differences found with: Change values
==> Differences found with: Help for report type
N- Here appears the full new text
O- Here appears the full old text
O- Here appears the full old text
0- Here appears the full old text
==> No differences found with: Help for report
==> No differences found with: Help for JCL generation
```

Use the S line command to enter the report definition dialog for the selected source report – the EDGPG020 panel is displayed.

Use the C line command to enter the report dialog for the compare report definition – the EDGPG020 panel is displayed.

When you specify the U line command you can select which information is used to update the report definition from the compare library with selected information from the report definition in the source library. The updated report definitions are stored on the User library. You can select to copy the report type level to the target report definition so that you know that you have reviewed and applied all the desired changes.

```
Panel Help

EDGPG422 DFSMSrmm Report Definition Compare

Command ===>

Report definition .: EDGRVEXT

Enter "/" to select the values to be copied:
Report type level
Help for report type
Help for report
Help for JCL generation
Data type information
Macros, macro libraries and keywords
RDW setting
Record selection criteria
Sort criteria
Report information
Input data set name
Report title
```

You can select to copy the report type level to the target report definition so that you know that you have reviewed and applied all the desired changes.

When you Check Report Type inheritance, DFSMSrmm compares the detailed attributes for the report types in the source library with those for the report definitions in the compare library, and for those report definitions using report types in the source library displays those which do not contain all the inherited information from the report type. DFSMSrmm compares the help information and field data type information and the report type level.

Use the L line command to view the results of the compare.

```
[part panel only]
Report Generator - Inheritance differences 2011/03/17 08:20
                    EDGRSEXT 01.11.00 Product
                                Level
Source: Report type
                                                   SYS1.SAMPLIB
Compare: Report définition AA1186 none Installation LOCAL.REPORT.LIB
==> Differences found with: Record selection criteria
   The specific differences are not shown here. Please display the
   report type and the report definition for details.
N- RSTYPE refer to source report type
0- RSTYPE
            refer to compare report definition
N- RSTYPE2
           missing in compare report definition
==> Differences found with: Data type information (with field and/or selection criteria)
N- DCUTIME TM1
O- DCUTIME
==> No differences found with: Macros, macro libraries and keywords
==> No differences found with: RDW setting
==> No differences found with: Change values
==> Differences found with: Help for report type
N- Here appears the full new text
O- Here appears the full old text
O- Here appears the full old text
O- Here appears the full old text
==> No differences found with: Help for report
==> No differences found with: Help for JCL generation
```

Use the S line command to enter the report type dialog for the selected source report type – the EDGPG200 panel is displayed.

Use the C line command to enter the report dialog for the compare report definition – the EDGPG020 panel is displayed.

When you specify the U line command you can select which information is used to update the report definition from the compare library with selected information from the report type in the source library. The updated report definitions are stored on the user library.

```
EDGPG432 DFSMSrmm Report Type Inheritance
Command ===>

Source report type . : EDGRVEXT Compare report definition . : AA1186
Enter "/" to select the values to be copied/inherited:
Report type level
Help for report type
Help for report
Help for JCL generation
Data type information
Macros, macro libraries and keywords
RDW setting
Record selection criteria
```

You can select to copy the report type level to the target report definition so that you know that you have reviewed and applied all the desired changes.

When you merge report types, DFSMSrmm copies all the report types which are not in the user library from the Installation library to the user library. DFSMSrmm never merges from the Product library.

```
Report types merged successfully from the Installation to User library
```

After you have completed the merge of report types, you can use the new, merged report types in your installation library by copying the member EDGGRTD from the user library to the installation library.

Chapter 3. 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 <u>z/OS DFSMSrmm</u>

<u>Implementation and Customization Guide</u>. 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. 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 4 on page 49 shows the data sets that are used for inventory management reports, along with a description of each.

Table 4. Data sets used for inventory management reports

Report	Description
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 REPTEXT DD or the XREPTEXT DD is required when you specify the EDGHSKP utility RPTEXT parameter.
XREPTEXT	Contains the extract data set that contains the extended extract records consisting of records with combined data set and volume information.

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

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 perform these tasks:

- 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 z/OS 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 the DFSMSrmm reporting utility EDGRPTD and to the EDGRRPTE EXEC to create reports. See Chapter 4, "Creating reports with DFSMSrmm utilities," on page 65 for information about using the EDGRPTD utility and the EDGRRPTE EXEC. Requests for extract data sets can be submitted at any time. To obtain extract data sets at the same time that DFSMSrmm is processing other extract data sets, run the EDGHSKP with the RPTEXT parameter. Define your own extract data set and message file to avoid contention with other users.

DFSMSrmm reads sequentially through its control data set and creates extract records for each shelf location, volume, data set, software product, owner, and vital record specification record. In addition, DFSMSrmm optionally creates extended records, which contain merged volume and data set information. You have two ways control which type of extract data set record is produced:

- 1. Using the RPTEXT command in the EDGHSKP SYSIN file, you can explicitly specify which type of records are to be extracted. The output can go to either the REPTEXT or XREPTEXT data set.
- 2. Using DD statements, if you do not use the RPTEXT command in SYSIN, the DD name you use determines whether extended records are created. When you specify the REPTEXT DD statement, DFSMSrmm creates all records, except for extended records. When you specify the XREPTEXT DD statement, DFSMSrmm creates only extended records.

DFSMSrmm converts this information to a 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 65 and Chapter 6, "Using DFSMSrmm with DFSORT," on page 117 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 extended data set record: EDGRXEXT" on page 265 for the layout of the header record.

Table 5 on page 51 shows the date formats that can be used for the records that are written to the extract data set, records that are written to the ACTIVITY file, and any messages that are issued during inventory management. The default date format for all date fields is the value that is 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, which is described in z/OS DFSMSrmm Implementation and Customization Guide.

Table 5. Date formats

Value	Language	Format	Example
A	American	mm/dd/yyyy	12/15/2012
E	European	dd/mm/yyyy	15/12/2012
I	International Organization for Standardization (ISO)	yyyy/mm/dd	2012/12/15
J	Julian	yyyy/ddd	2012/350
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 <u>Appendix</u> B, "DFSMSrmm mapping macros," on page 227 for layouts of the macros. You can use DFSORT to sort the extract data set records to create many types of reports. See <u>Appendix A</u>, "DFSORT symbols for use with DFSMSrmm," on page 161.

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 data set and volume related changes that DFSMSrmm makes to the control data set during inventory management. 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 <u>"ACTIVITY file record: EDGACTRC"</u> on page 227 for a mapping of the ACTIVITY file.

DFSMSrmm writes an activity record for data set changes only when a change is identified in the ACTRC_DSN_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.

DFSMSrmm writes an activity record for volume changes only when a change is identified in the ACTRC_VOL_CHANGE section of the record and when the VRSRETAIN or EXPDTDROP action is not set to OFF. Activity records are written by VRSEL only for newly assigned volumes that are to be changed from not VRS-retained to either VRS-retained or set-retained. This is limited to volumes that are retained only for volume VRS, and those that are retained because of RETAINBY(SET) and another volume in the set is VRS-retained. Activity records are written by EXPROC only for EXPDT-retained volumes that are to be set pending release

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 and volume 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 57 on page 52, 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. Use the VRS and VRSS reports together to analyze how DFSMSrmm handles the VRSDROP retention limit.

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.

0-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 <u>"ACTIVITY file record:</u> EDGACTRC" on page 227, 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 <u>"ACTIVITY file record:</u> EDGACTRC" on page 227 for the vital record specification types.

ata Sets Changed VRS Status 05/31/12	02:02		- 1					
catus Change and Drop Reason: RETAINED								
SNAME	JOBNAME	VOLSER	0-ST	N-ST	RSN	PRIMARY VRS	JOB MASK	TYPE
MUSER.D001		A00001	N		DMMIIC	SER. D001		
MUSER.0001		A00001	N	Ÿ		SER. D002	Ď	
MUSER.D002		A00005	N	Ý	RMMUS	SER. D002	Ď	
MUSER.D003		A00007	N	Y		SER. D003	D	
MUSER.D003		A00008	N	Y	RMMUS	SER. D003	D	
Oata Sets Changed VRS Status 05/31/12	02:0	12:20	- 3	-				
Data Sets Changed VRS Status 05/31/12 catus Change and Drop Reason: DROPPED DAYS		12:20	- 3	-				
		VOLSER	- 3 0-ST	- N-ST	RSN	PRIMARY VRS	JOB MASK	TYPE
catus Change and Drop Reason: DROPPED DAYS	JOBNAME	VOLSER					JOB MASK	TYPE
catus Change and Drop Reason: DROPPED DAYS	JOBNAME JNAMEOD1	VOLSER	0-ST	N-ST		DSM*.DS2		
atus Change and Drop Reason: DROPPED DAYS NAME MASTER. DS2 MASTER. DS2	JOBNAME JNAMEOD1 JNAMEOD1	VOLSER A00021 A00022	0-ST	N-ST		DSM*.DS2 DSM*.DS2		
catus Change and Drop Reason: DROPPED DAYS	JOBNAME JNAMEOD1	VOLSER	0-ST	N-ST		DSM*.DS2		

Figure 57. Sample VRS Report

VRSS report

The VRSS report, as shown in Figure 58 on page 53, 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 Reasor

The reason that a vital record specification no longer retains a data set. See <u>"ACTIVITY file record:</u> EDGACTRC" on page 227 for the drop reasons.

COUNT

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



Figure 58. Sample VRSS Report

RETDATE report

The RETDATE report, as shown in Figure 59 on page 54, provides information about the changes to the retention date of a data set that occur when you run vital record processing. 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 <u>"VRS report" on page 52</u> 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 <u>"ACTIVITY file record:</u> EDGACTRC" on page 227 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.

Data Sets Changed Retention Date	05/31/12	02:02:22	- 1 -					
New Retention Date: CYCL/00001								
DSNAME RWMUSER, D003 RWMUSER, D005 RWMUSER, D006 RWMUSER, D006 RWMUSER, D006 RWMUSER, D008 RWMUSER, D008 RWMUSER, D009 RWMUSER, D009 RWMUSER, D009			PREVIOUS	NEW DATE 	RMMUSER. D003 RMMUSER. D005 RMMUSER. D005 D006 D007 RMMUSER. D008 RMMUSER. D008	JOB MASK	TYPE D D D S V M M	SUBCHAIN M10993
RMMUSER.D011 RMMUSER.D011		A00030 A00031		CYCL/00001 CYCL/00001	A00030 A00031		V	N1A00030 N1A00031
Data Sets Changed Retention Date	05/31/12	02:02:22	- 2 -					
New Retention Date: CYCL/00002								
DSNAME	JOBNAME		PREVIOUS			JOB MASK		SUBCHAIN
RMMUSER. D008 RMMUSER. D012 RMMUSER. D012 RMMUSER. D012 RMMUSER. D012 RMMUSER. D009 RMMUSER. D009 RMMUSER. D009 RMMUSER. D0012 RMMUSER. D012 RMMUSER. D012 RMMUSER. D010 Data Sets Changed Retention Date	05/31/12	A00019 A00023 A00034 A00035 A00019 A00023 A00034 A00035 A00019 A00023 A00034 A00035 02:02:22		CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002 CYCL/00002	RMMUSER. D009 A00034 A00035 RMMUSER. D008 RMMUSER. D009 A00034		M M V M M V V M M	N1D012 N1D012 N1D012 N1D012 N1D012 N1D012 N1D012
New Retention Date: 2011/099								
DSNAME			PREVIOUS			JOB MASK		SUBCHAIN
RRMUSER.0003 RRMUSER.0004 RRMUSER.0009 RRMUSER.0009 RRMUSER.0009 RRMUSER.0010 RRMUSER.0010 RRMUSER.0010 RRMUSER.0010 RRMUSER.0009 RRMUSER.0009 RRMUSER.0009 RRMUSER.0009 RRMUSER.0009 RRMUSER.0009 RRMUSER.0009 RRMUSER.0010	05/31/12	A00008 A00009 A00022 A00024 A00027 A00028 A00009 A00022 A00024 A00027 A00028 02:02:22		2011/099 2011/099 2011/099 2011/099 2011/099 2011/099 2011/099 2011/099 2011/099 2011/099 2011/099 2011/099	RMHUSER, D003 RMHUSER, D004 RMHUSER, D009 RMHUSER, D009 RMHUSER, D009 RMHUSER, D0010 RMHUSER, D0110		D M M M M D D M M	D004
New Retention Date: 2011/100								
OSNAME RMMUSER. D001 RMMUSER. D002 RMMUSER. D002 RMMUSER. D003 RMMUSER. D003 RMMUSER. D003 RMMUSER. D003 RMMUSER. D002 RMMUSER. D002 RMMUSER. D002 RMMUSER. D002 D003 RMMUSER. D002 D003 D003				NEW DATE 2011/100 2011/100 2011/100 2011/100 2011/100 2011/100 2011/100 2011/100		JOB MASK	TYPE D D D D D M D D D M D D D M	SUBCHAIN
New Retention Date: 2011/335								
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN
RMMUSER.D003 RMMUSER.D004 RMMUSER.D009		A00008 A00009 A00022 A00024 A00027		2011/335 2011/335 2011/335 2011/335 2011/335 2011/335	RMMUSER. D003 RMMUSER. D004 RMMUSER. D009 RMMUSER. D009 RMMUSER. D010 RMMUSER. D010 RMMUSER. D010		D D M M M	D004
New Retention Date: 2011/336								
DSNAME	JOBNAME	VOLSER	PREVIOUS	NEW DATE	PRIMARY VRS	JOB MASK	TYPE	SUBCHAIN
RMMUSER. D001 RMMUSER. D002 RMMUSER. D002 RMMUSER. D010		A00001 A00004 A00005 A00029		2011/336 2011/336 2011/336 2011/336	RMMUSER. D001 RMMUSER. D002 RMMUSER. D002 RMMUSER. D010		D D D	

Figure 59. Sample RETDATE Report

RETDS report

The RETDS report, as shown in Figure 60 on page 54, 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.

Figure 60. Sample RETDS Report

MATCHVRS report

The MATCHVRS report, as shown in Figure 61 on page 56, 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 <u>"ACTIVITY file record:</u> EDGACTRC" on page 227 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 <u>"ACTIVITY file record: EDGACTRC"</u> on page 227 for the vital record specification types.

2nd. VRS

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

2nd. JOB

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

ata Sets Matching to different VRS	05/31/12	02:	02:25		1 -						
NEW PRIMARY VRS: DRMMUSER.D001											
DSNAME	JOBNAME	VOLSER		N-ST	DROPRSN	OLD PRIMARY VRS			2nd. VRS		
RMMUSER.D001 RMMUSER.D001 RMMUSER.D001 RMMUSER.D001 RMMUSER.D001 RMMUSER.D001 RMMUSER.D001 RMMUSER.D001 RMMUSER.D001	05/31/12	A00001 A00002 A00001 A00002 A00001 A00002	N N N N	Y N Y N Y	D D D 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 RMMUSER. D003 RMMUSER. D003 RMMUSER. D003 RMMUSER. D003	05/31/12	A00004 A00005 A00003 A00004 A00005 A00003 A00004 A00005	N N N N N	N Y Y N Y N Y Y	C C C - 3 -						
DSNAME	JOBNAME	VOLSER			DROPRSN	OLD PRIMARY VRS			2nd. VRS		
RMMUSER. D003 RM	05/31/12	A00006 A00007 A00008 A00006 A00007 A00008 A00006 A00007 A00008	N N N N	N Y Y N Y Y N Y	c c c						
NEW PRIMARY VRS: DRMMUSER.D004											
DSNAME RMMUSER.D004 RMMUSER.D004 RMMUSER.D004 ata Sets Matching to different VRS	JOBNAME 05/31/12	A00009	N	Y Y Y	DROPRSN 	OLD PRIMARY VRS	JUB MASK		2nd. VRS	200. JUB	
NEW PRIMARY VRS: DRMMUSER.D005	7000000						200 111011	T. (D.E.			
DSNAME RMMUSER, D065	JOBNAME	VOLSER A00010 A00011 A00012 A00013 A00011 A00012 A00013 A00010	N N N N N N	N-ST N N Y Y N N N Y	B B B	OLD PRIMARY VRS			2nd. VRS		

Figure 61. Sample MATCHVRS Report

MATCHVS report

The MATCHVS report, as shown in <u>Figure 62 on page 57</u>, 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 <u>"ACTIVITY file record:</u> EDGACTRC" on page 227 for the vital record specification types.

COUNT

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

1Summary of new matching VRSs	05/31/12	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 62. 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 63 on page 58, 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 <u>"ACTIVITY file record:</u> EDGACTRC" on page 227 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.

	05/31/12	02.02.00	- 1 -					
NEW SUBCHAIN AND DATE: D004	2011/098							
DSNAME	JOBNAME	VOLSER	PRIMARY VRS			2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
RMMUSER.D004 RMMUSER.D004 Data Sets Changed VRS Subchain		A00009 A00009	RMMUSER.D004 RMMUSER.D004 - 2 -		D D			
NEW SUBCHAIN AND DATE: D004	2011/334							
DSNAME	JOBNAME	VOLSER	PRIMARY VRS		TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
RMMUSER.D004 Data Sets Changed VRS Subchain		A00009	RMMUSER.D004 - 3 -		D			
NEW SUBCHAIN AND DATE: N1A0003	02011/098							
DSNAME	JOBNAME	VOLSER	PRIMARY VRS			2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
RMMUSER.D011 RMMUSER.D011 Data Sets Changed VRS Subchain		A00030 A00030	A00030		V			
NEW SUBCHAIN AND DATE: N1A0003	02011/334							
DSNAME	JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB		2nd.SUBC DATE
RMMUSER.D011 Data Sets Changed VRS Subchain	05/31/12	A00030	A00030 - 5 -		V			
NEW SUBCHAIN AND DATE: N1A0003	12011/098							
DSNAME	JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
RMMUSER.D011 RMMUSER.D011 Data Sets Changed VRS Subchain	05/31/12	A00031	A00031 A00031		V V			
NEW SUBCHAIN AND DATE: N1A0003								
DSNAME	JOBNAME	VOLSER	PRIMARY VRS	JOB MASK		2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
RMMUSER.D011 Data Sets Changed VRS Subchain	05/31/12	A00031 02:02:30	A00031 - 7 -		V			
NEW SUBCHAIN AND DATE: N1D003	2011/098							
DSNAME	JOBNAME	VOLSER	PRIMARY VRS	JOB MASK	TYPE	2nd.VRS JOB	SUBCHAIN DATE	2nd.SUBC DATE
			RMMUSER.D003		 D			

Figure 63. Sample SUBCHN Report

SUBCHNS report

The SUBCHNS report, as shown in Figure 64 on page 58, 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.



Figure 64. Sample SUBCHNS Report

VRSRETN report

The sample report is created from data set and volume ACTIVITY file records and from extended records in the report extract file. The detailed report is presented by data set, but is grouped based on whether the volume is retained or not.

Newly assigned volumes subject to VRSRETAIN -	01/15/09	06:46:27	- 1
Status: RETAINED			

DLUME	TN		V	DRUP	REASON			VRS	
TAIN FILE DLSER FSEQ ASON COUNT	DSNAME SET	JOBNAME	X RETAINED	PRIM	2nd	PRIMARY VRS	JOB MASK		
01504 1	RMMUSER.A01504.DS1		Υ						1504
1509 1	N RMMUSER.A01509.DS1		N					A01	1509
1509 2	N RMMUSER.A01509.DS2		Υ					A01	1509
1510 1	N							A01	1510
UME 0 1512 1	N RMMUSER.A01512.DS1		NY			RMMUSER.A01512.DS1		D	
ASET 1	N RMMUSER.A01513.DS1		NY			RMMUSER.A01513.DS1		D	
ASET 1	N RMMUSER.A01601.DS1		Y						
LICIT 4	N RMMUSER.A01601.DS2	JA01601		D		RMMUSER.A01601.DS2	JA01601	C	
ASET 4	N	JA01001		U		KINIOSEK. AU1001. D32	JAUIUUI	C	
LICIT 4	RMMUSER.A01601.DS3		Y		_				
ASET 4	RMMUSER.A01601.DS4 N		NY		D	RMMUSER.A01601.DS4		С	
ASET 1	RMMUSER.A01602.DS1 Y		NY			RMMUSER.A01602.DS1		D	
1604 1 UME 0	N							A01	1604
wly assigne	d volumes subject to VRSRETAIN	01/15/09	06:46:27	_	2				
atus:	d volumes subject to VRSRETAIN	01/15/09	96:46:27	-	2				
atus: RETAINED		01/15/09	06:46:27 D A T A S						
atus: RETAINED A T A S E T L U M E		01/15/09		SET				VRS	
atus: RETAINED A T A S E T L U M E AIN FILE SER FSEQ SON COUNT	IN DSNAME SET	JOBNAME	D A T A S V X RETAINED	G E T DROP PRIM	V R S REASON 2nd	PRIMARY VRS	JOB MASK	TYPE VRS	
atus: RETAINED A T A S E T L U M E AIN FILE SER FSEQ SON COUNT	IN DSNAME SET	JOBNAME	D A T A S V X RETAINED	G E T DROP PRIM	V R S REASON 2nd			TYPE VRS	
atus: RETAINED A T A S E T L U M E AIN FILE LSER FSEQ SON COUNT	IN DSNAME SET	JOBNAME	D A T A S V X RETAINED	G E T DROP PRIM	V R S REASON 2nd	RMMUSER.A01505.DS1		TYPE VRS	
ATASETLUME ATASETLUME AIN FILE LSER FSEQ SON COUNT 1505 1	IN DSNAME SET RMMUSER. A01505. DS1 1 N	JOBNAME	D A T A S V X RETAINED	G E T DROP PRIM	V R S REASON 2nd	RMMUSER.A01505.DS1		TYPE VRS	
ATASETLUME ATASETLUME ATASETLUME AIN FILE LSER FSEQ SON COUNT	IN DSNAME SET	JOBNAME	D A T A S V X RETAINED	G E T DROP PRIM	V R S REASON 2nd	RMMUSER.A01505.DS1 1 N 1 N		TYPE VRS	
ATASETLUME ATASETLUME AIN FILE LISER FSEQ SON COUNT	IN DSNAME SET 	JOBNAME	D A T A S V X RETAINED	G E T DROP PRIM	V R S REASON 2nd	RMMUSER.A01505.DS1 1 N 1 N 1 N		TYPE VRS	
atus: RETAINED A T A S E T L U M E AIN FILE LSER FSEQ SON COUNT	IN DSNAME SET RMMUSER.A01505.DS1 RMMUSER.A01506.DS1 RMMUSER.A01507.DS1 RMMUSER.A01508.DS1 RMMUSER.A01508.DS1 RMMUSER.A01511.DS1 RMMUSER.A01511.DS1	JOBNAME	D A T A S V X RETAINED	G E T DROP PRIM	V R S REASON 2nd	RMMUSER.A01505.DS1 1 N 1 N		TYPE VRS	
ATASET LUME ATASET LUME ATASET SEQUENTIAL SER FSEQ SON COUNT 1505 1 1506 1 1507 1 1508 1 1511 1	IN DSNAME SET	JOBNAME	DATAS V X RETAINED	G E T DROP PRIM 	V R S REASON 2nd	RMMUSER.A01505.DS1 1 N 1 N 1 N 1 N 3 N RMMUSER.A01511.DS2		TYPE VRS	
ATASET LUME ATASET LUME AIN FILE LSER FSEQ SON COUNT	IN DSNAME SET	JOBNAME	DATAS V X RETAINED	G E T DROP PRIM 	V R S REASON 2nd	RMMUSER.A01505.DS1 1 N 1 N 1 N 1 N 3 N		TYPE VRS	

The data columns in the VRSRETN report are presented in three groups:

- DATA SET
- DATA SET VRS
- VOLUME

and provide the following information:

DATA SET group

VOLSER

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

FSEQ

The file sequence number of the data set on the volume on which the data set resides.

DSNAME

The name of the data set that is on a volume subject to VRSRETAIN processing during vital record processing.

JOBNAME

The jobname associated with the data set.

VX

The data set is excluded from VRSEL processing by VRSELEXCLUDE: Y - Yes, N - No

DATA SET VRS group

RETAINED

The vital record status for the data set or volume. Y is the VRS-retained status. N is the Not VRS-retained status. Blank indicates there is no VRS matching information available.

DROP REASON

The reason the data set is not retained by a vital record specification. See <u>"ACTIVITY file record:</u> EDGACTRC" on page 227, which provides the drop reasons.

PRIM

The reason for the primary VRS chain

2nd.

The reason for the secondary VRS chain

PRIMARY VRS

For data sets matching to a data set VRS, this is the name from the first vital record specification in the matching vital record specification chain. For volumes being retained only by a specific or generic volume VRS, this is the volser mask from the VRS.

JOB MASK

For data sets matching to a data set VRS this is the jobname from the first vital record specification in the matching primary vital record specification chain.

TYPE

The type of the vital record specification matched to the data set. See "ACTIVITY file record: EDGACTRC" on page 227 for the vital record specification types.

VOLUME group

RETAINED

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

RETAIN REASON

The reason that the data set is retained. The value displayed is one of the following:

DATASET

VRS Retained by a data set VRS

IMPLICIT

Retained either because another data set on the volume is VRS retained or the volume is retained only by a volume VRS or the volume is retained by set.

VOLUME

Retained only because the volume is VRS retained

SET

Retained only because the volume is part of a multi-volume set and another volume in the set is VRS retained

FILE COUNT

The number of data sets (files) on the volume.

TN SFT

Shows if the volume is in a multi-volume set. Y the volume is in a multi-volume set. N the volume is not in a multi-volume set.

VRSRETNS report

1Summary of newly assigned volumes for VRSRETAIN 07/30/09 10:00:22 - 1
Status VOLUME COUNT

NOTRETAINED	-
RETAINED	Ģ

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

Status

The new vital record status. The status is one of:

RETAINED

The volume is VRS retained.

NOTRETAINED

The volume is not VRS retained.

VOLUME COUNT

The number of volumes with the same determined status. The status for a volume with multiple data sets is determined in the following sequence:

- 1. If any data set is VRS retained or the volume is VRS retained, including volumes retained by set, the volume status is RETAINED
- 2. If any data sets match to a data set VRS but are dropped, or there is no match to either a data set or volume VRS, or a volume matches a volume VRS and is not retained the volume status is NOTRETAINED.

EXPDROP report

Here is an example of the EXPDROP report:

VOLSER VSEQ DSNAME	TORNAME	EVDDCN	ASSIGNED	EVDNT	DM D	B RETDATE	ACTTONS	LOCATION	HOME	DEST	RLS ACT	חטו ח	EDM
A01502 1 RMMUSER.A01502.A111111.B222222.C333333.D44 A01503 1 RMMUSER.A01503.A111111.B222222.C333333.D44			2012/243 2012/243	2012/245 2012/245	V E V				SHELF SHELF		S S	N N	N N
A01504 2 RMMUSER.A01504.X111111.Y222222	RMMTEST1	Χ	2012/243	2012/245	E V			SHELF	SHELF		S	N	N
A01505 1 RMMUSER.A01505.X111111.Y222222 A01506 1 RMMUSER.A01506.X1111111.Y222222 A01507 1 RMMUSER.A01507.X111111.Y222222 A01508 1 RMMUSER.A01508 A01509 2 RMMUSER.A01509 A01510 3 RMMUSER.A01509 A01511 4 RMMUSER.A01511 A01511 4 RMMUSER.A01511	RMMTEST1 RMMTEST1 RMMTEST1	X X X X X	2012/243 2012/243 2012/243 2012/243 2012/243 2012/243 2012/243 2012/243 2012/243	2012/245 2012/245 2012/245 2012/246 2012/246 2012/246 2012/245 2012/245	E S V E F V V V E V E V			SHELF SHELF SHELF SHELF SHELF SHELF SHELF	SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF		S OIN R E S S S S S S S S S S S S S S S S S S	N N N N N N N	N N N N N N N
A01513 2 RMMUSER.A01519 Volumes in this status: 12 EXPORT retained volumes subject to EXPORDED. 09/0	3/12 A	6.28.51	,	, - · ·				SHEEL	JILLI		3		
	3/12 0	6:28:51	- 2 -	,				JILLI	SHEEL		J		
Volumes in this status: 12 EXPDT retained volumes subject to EXPDTDROP 09/0	,		,			B RETDATE		LOCATION		DEST	RLS ACT	HOLD	EDM

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

VOLSER

The volume serial number of the volume subject to EXPDTDROP.

VSEQ

The volume sequence number.

DSNAME

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

JOBNAME

The jobname associated with the data set.

EXPRSN

The reason the volume is no longer retained by EXPDT. See <u>"ACTIVITY file record: EDGACTRC" on</u> page 227, which provides the reasons.

ASSIGNED

The date the volume was assigned from scratch status.

EXPDT

The volume expiration date.

RM

The retention method for this volume: E - EXPDT, V - VRSEL.

RB

The RETAINBY value for RM(EXPDT) managed volumes:

V

Volume retention

S

Set retention

F

FIRSTFILE retention

The entry is blank for RM(VRSEL) managed volumes.

RETDATE

The retention date for the volume. If there is no date it indicates the volume has never been VRS retained, otherwise this is the date the volume was dropped from vital record status.

ACTIONS

The pending actions for the volume. The values are:

S

Return to scratch

R

Replace volume

0

Return to owner

Ι

Initialize

Ε

Erase

N

Notify

A character indicates the action is set. A blank indicates the action is not set.

LOCATION

The volume's current location.

HOME

The volume's home location.

DEST

The volume's destination.

RLS ACT

The release actions for the volume. The values are:

S

Return to scratch

R

Replace volume

0

Return to owner

Ι

Initialize

Ε

Erase

Ν

Notify

A character indicates the action is set. A blank indicates the action is not set.

HOLD

The volume hold attribute. The values are:

Ν

The volume hold attribute is not set.

Υ

The volume hold attribute is set.

EXPDROPS report

Sample JCL for creating an EXPDROPS report is provided in SYS1.SAMPLIB(EDGJACTP)..

```
1Summary of EXPDT retained volumes for EXPDTDROP 05/11/12 07:17:42 - 1 -

Status VOLUME COUNT
------
NOCHANGE 1
RELEASED 7
```

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

Status

The new EXPDT status. The status is one of:

NOCHANGE

The volume is EXPDT retained

RELEASED

The volume's EXPDT is reached and the volume set to pending release.

VOLUME COUNT

The number of volumes with the same determined status.

Chapter 4. Creating reports with DFSMSrmm utilities

The DFSMSrmm report utilities EDGRPTD and EDGAUD help you keep track of your removable media inventory and monitor access to classified tape data. <u>Table 6 on page 65</u> shows information that you can obtain using EDGRPTD and EDGAUD.

Table 6. DFSMSrmm Report utilities and samples

To Obtain	Use	Which Requires the
Inventory, movement, and scratch reports	EDGRPTD, described in <u>"Using</u> EDGRPTD to create reports" on page 65	Extract data set
Audit reports and security reports using System Management Facility (SMF) records	EDGAUD, described in "Using EDGAUD to create security and audit reports" on page 77	SMF data set

You can write customized reports by using DFSORT's ICETOOL. For information on using DFSORT's ICETOOL, see Chapter 6, "Using DFSMSrmm with DFSORT," on page 117.

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 70.
- 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 72.
- 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 74.

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.

Creating scratch list reports

You can create reports that list scratch volumes by specifying the NEWSCR and SCRLIST output files. The contents of the reports is controlled by the volume scratch date and time information in the SCRDATE. For information about the NEWSCR file, the SCRLIST file, and the SCRDATE file, see "DD statements for scratch list reports" on page 69. You can produce scratch reports with movement reports and inventory reports in the same run of EDGRPTD.

The NEWSCR 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.

Use the new scratch list report (NEWSCR) to list volumes that were returned to scratch status since the last time you ran the scratch list report. Specify a date and time in the SCRDATE file to control the list of volumes that DFSMSrmm returns in the NEWSCR file. To create a report that only lists new scratch volumes that were returned to scratch since the last time you requested a scratch list, specify a date and time in the SCRDATE file. To obtain a report that contains all the volumes that are in scratch status, specify an empty SCRDATE file.

To create a report that contains just the new scratch volumes you can choose one of these options:

- 1. Use the RMM LISTCONTROL subcommand to obtain the last run date and time of expiration processing. Specify this date and time in the SCRDATE file. If you specify the last run date and time of expiration processing, DFSMSrmm lists all volumes that have returned to scratch status during or since the last run of expiration processing.
- 2. Use the EDGRPTD utility with at least one inventory management run before you start using the new scratch list. When you run EDGRPTD before you start using the new scratch list, DFSMSrmm produces a new scratch report that contains all the volumes in scratch status. During the first run, DFSMSrmm sets the date and time in the SCRDATE file. This ensures that the next time you run EDGRPTD, such as after the next expiration processing run, DFSMSrmm produces a report that contains only new scratch volumes.

Use the scratch list report (SCRLIST) to list all of the 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 includes all the information available at the time you run the report. As a result, you might find differences between the information in the report and the information in the DFSMSrmm control data set. For example, the volume information in the scratch list report might not reflect the scratch volumes that have been used or the volumes that were made available as part of expiration processing. Both of these events can change information in the control data set that might not be reflected in the report.

JCL for EDGRPTD

To create a report, submit a job with JCL, as shown in Figure 65 on page 66.

```
//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)'
//REPTEXT DD DISP=SHR,DSN=RMMTST.PR0914X.REPTEXT
//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.BYTOSCR
//SYSOUT DD DISP=SHR,DSN=RMMTST.REPORT.DFSORT
//SCRDATE DD DISP=SHR,DSN=RMMTST.REPORT.DFSORT
//SCRDATE DD DISP=SHR,DSN=RMMTST.REPORT.NEWSCR
```

Figure 65. Example of JCL for EDGRPTD to create inventory reports, movement reports, and scratch list reports

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

EXEC parameters for EDGRPTD

Figure 66 on page 67 shows the EXEC parameters for EDGRPTD.

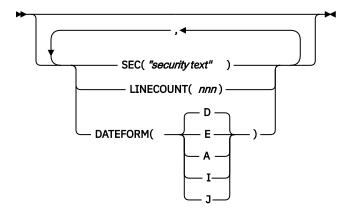


Figure 66. EDGRPTD EXEC parameters

The EXEC parameters for EDGRPTD are:

DATEFORM(A/E/I/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	12/15/2012
E	European	dd/mm/yyyy	15/12/2012
I	International Organization for Standardization (ISO)	yyyy/mm/dd	2012/12/15
J	Julian	yyyy/ddd	2012/350
D	Default	Installation default in EDGRMMxx	Initially set to Julian

LINECOUNT(nnn)

nnnspecifies the number of lines per page for reports, including the heading and trailer lines. Specify a value between 10 and 999. Specify LINECOUNT to override the LINECOUNT value specified by the LINECOUNT operand of the EDGRMMxx parmlib member OPTION command. See <u>z/OS DFSMSrmm</u> Implementation and Customization Guide for information about the LINECOUNT operand.

The default is 54 lines per page.

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:

FMSTBIN

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

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

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

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

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

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 NEWSCR 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 SCRDATE DD. If the SCRDATE file is empty, the NEWSCR 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.

01/12/201223:01:00

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 can be preallocated with any disposition.

SCRLIST

Output file for the full scratch list report.

Return codes for EDGRPTD

EDGRPTD issues one of the return codes that are shown in Table 7 on page 69.

Table 7. 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.

EDGRPTD report samples

This topic contains examples of reports that you can create by using the DFSMSrmm EDGRPTD report utility described in "Using EDGRPTD to create reports" on page 65.

Using inventory reports

Before you begin: To obtain the most up-to-date inventory report, move all volumes that are in transit to their destinations and confirm that all moves have been completed before you produce the extract data set from which you produce inventory reports.

You can use inventory reports for performing audits of your library and storage locations. 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.

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

DFSMSrmm produces inventory reports in INSTVOL, INSTBIN, INSTOWN output files. Each output file can contain multiple reports.

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.

DFSMSrmm produces a separate report for each location where volumes reside. The reports are composed of repeated data columns. The data columns for the inventory reports are:

VOLUME

The volume serial number

RACK

The rack number and external volume serial number. The Rack field contains the volume serial number when no rack number has been defined for the volume.

BIN

The bin number in which the volume resides. The Bin field contains information only when you specify the EDGRMMxxparmlib member LOCDEF MANAGEMENTTYPE(BINS) command.

OWNER

The owner of the volume

MEDIANAME

The media name or type of media of the volume

Т

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.

Ι

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.

0

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.

INSTBIN report

The INSTBIN report, as shown in Figure 67 on page 71, is a report that contains the inventory of volumes by location that is sorted by rack number or bin number.

INVENTORY OF					07/05/2012
TACK VOLUME OWN					
INVENTORY OF	VOLUMES IN LOCATION M	TL13480			1
2012				DATE	07/05/2012
RACK VOLUME OWNE	R MEDIANAME T	RACK	VOLUME OWNER	MEDIANAME T	
TNVENTORY OF	VOLUMES IN LOCATION S	HELE		PAGE	1
2012					07/05/2012
RACK VOLUME OWNE	R MEDIANAME T	RACK	VOLUME OWNER	MEDIANAME T	
	RACK VOLUME OWNE INVENTORY OF RACK VOLUME OWNE TOURN TO THE TOURN OWNE INVENTORY OF	PACK VOLUME OWNER MEDIANAME T INVENTORY OF VOLUMES IN LOCATION M RACK VOLUME OWNER MEDIANAME T INVENTORY OF VOLUMES IN LOCATION SI 2012	RACK VOLUME OWNER MEDIANAME T RACK INVENTORY OF VOLUMES IN LOCATION MTL13480 RACK VOLUME OWNER MEDIANAME T RACK INVENTORY OF VOLUMES IN LOCATION SHELF	RACK VOLUME OWNER MEDIANAME T RACK VOLUME OWNER INVENTORY OF VOLUMES IN LOCATION MTL13480 RACK VOLUME OWNER MEDIANAME T RACK VOLUME OWNER INVENTORY OF VOLUMES IN LOCATION SHELF	RACK VOLUME OWNER MEDIANAME T RACK VOLUME OWNER MEDIANAME T INVENTORY OF VOLUMES IN LOCATION MTL13480 PAGE DATE RACK VOLUME OWNER MEDIANAME T RACK VOLUME OWNER MEDIANAME T INVENTORY OF VOLUMES IN LOCATION SHELF PAGE DATE AND THE PAGE DATE PAGE DATE

Figure 67. INSTBIN Report sample

INSTOWN report

The INSTOWN report, as shown in Figure 68 on page 71, is a report that contains the inventory of volumes by location that is sorted by owner name.

	Copyright	R IBM Corp. 1993,2	012					DATE	07/05/2012
OWNER	VOLUME RACK	MEDIANAME T	OWNER	VOLUME RACK	MEDIANAME T	OWNER	VOLUME RACK	MEDIANAME T	
	RMM102 RMM102 RMM103 RMM103 RMM104 RMM104 RMM105 RMM105 RMM106 RMM106 RMM107 RMM107	N							
	RMM103 RMM103	N N							
RMMUSER	RMM105 RMM105	N							
RMMUSER RMMUSER	RMM106 RMM106 RMM107 RMM107	N N							
	MBER OF ENTRIE								
TOTAL NOT	IDEN OF ENTRIE	3 113110 = 0							
REMOVABLE	MEDIA MANAGE	R IBM Corp. 1993,2	IN	VENTORY OF VOLU	JMES IN LOCATION	MTL13480		PAGE	1
5650-Z0S	Copyright	IBM Corp. 1993,2	012					DATE	07/05/2012
OWNER	VOLUME RACK	MEDIANAME T	OWNER	VOLUME RACK	MEDIANAME T	OWNER	VOLUME RACK	MEDIANAME T	
	A10604 A10604	N N							
	A10605 A10605 A10606 A10606 A10607 A10607 A10608 A10608	N							
	A10606 A10606 A10607 A10607	N N							
	A10608 A10608	N							
TOTAL NUM	MBER OF ENTRIE	S LISTED = 5							
DEMOVABLE				WENTORY OF 14011	WEG TH LOCATION	OUE! E		D405	
	MEDIA MANAGE Copyright IB	к М Corp. 1993,201	2		JMES IN LOCATION	SHELF		PAGE DATE 07	/05/2012
	VOLUME RACK	MEDIANAME T	OWNER	VOLUME RACK	MEDIANAME T	OWNER	VOLUME RACK	MEDIANAME T	
OWNER		3480 0							
	A00150 A00150								
	A00151 A00151	3480 0							
		3480 0 3480 0							

Figure 68. INSTOWN Report sample

INSTVOL report

The INSTVOL report, as shown in <u>Figure 69 on page 72</u>, is a report that contains the inventory of volumes by location that is sorted by volume serial number.

REMOVABLE MEDIA MANAGER 6650-ZOS Copyright IBM Corp. 19	INVENTORY OF	VOLUMES IN LOCATION A	TL10001	PAGE DATE	07/05/2012
OLUME RACK OWNER MEDIANAME T	VOLUME RACK OWN	ER MEDIANAME T	VOLUME RACK O	WNER MEDIANAME 1	
NMM4.02 DMM4.02					
MM103 DMM103 N					
MM104 RMM104					
RMM105 RMM105 RMMUSER N	ı				
MM106 RMM106 RMMUSER N	l				
MM102 RMM102 N MM103 RMM103 N MM104 RMM104 N MM105 RMM105 RMMUSER N MM106 RMM106 RMMUSER N MM107 RMM107 RMMUSER N	l				
OTAL NUMBER OF ENTRIES LISTED = 6	,				
REMOVABLE MEDIA MANAGER	INVENTORY OF	VOLUMES IN LOCATION N	TL13480	PAGE	1
REMOVABLE MEDIA MANAGER 6650-ZOS Copyright IBM Corp. 19	93,2012			DATE	07/05/2012
OLUME RACK OWNER MEDIANAME T	VOLUME RACK OWN	ER MEDIANAME T	VOLUME RACK 0	WNER MEDIANAME T	
10604 A10604 N 10605 A10605 N 10606 A10606 N 10607 A10607 N	J				
10605 A10605 N	i .				
10606 A10606 N	l				
10607 A10607 N	1				
10608 A10608 N	1				
OTAL NUMBER OF ENTRIES LISTED = 5	;				
EMOVABLE MEDIA MANAGER	TNIVENTORY OF	VOLUMES IN LOCATION S	יובו ב	DACE	1
6650-ZOS Copyright IBM Corp. 1993	INVENTORY OF	IN LOCATION S		DATE 6	7/05/2012
OLUME RACK OWNER MEDIANAME T	VOLUME RACK OWN	ER MEDIANAME T	VOLUME RACK 0	WNER MEDIANAME 1	
00150 400150 3480 0					
00151 A00151 3480 0					
0.00					
00152 A00152 3480 0					

Figure 69. INSTVOL Report sample

Using movement reports

Before you begin: To ensure that the control data set reflects current information, you should ensure that you have confirmed the movement for volumes from previous 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 CONFIRM dialog.

DFSMSrmm produces movement reports in the output files named TOSTRCK, TOSTOWN, RDYTOSCR, FMSTBIN, and FMSTOWN. Each output file can contain multiple reports with each report covering a specific pair of locations.

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 is composed of repeated data columns. The data columns are:

BIN

The bin number in which the volume resides. The Bin field contains information only when you specify the EDGRMMxxparmlib member LOCDEF MANAGEMENTTYPE(BINS) command.

VOLUME

The volume serial number

RACK

The rack number and external volume serial number. The Rack field contains the volume serial number when no rack number has been defined for the volume.

OWNER

The owner of the volume

MEDIANAME

The media name or type of media of the volume

Т

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

FMSTBIN report

The FMSTBIN report, as shown in Figure 70 on page 73, is a volume movement report that is sorted by bin number.

```
REMOVABLE MEDIA MANAGER
                                           VOLUMES TO BE MOVED FROM LOCATION BORISOV TO LOCATION MINSK
                                                                                                         PAGE 1
DATE 07/05/2012
           Copyright IBM Corp. 1993,2012
BIN RACK VOLUME TO BIN MEDIANAME T BIN
                                           RACK VOLUME TO BIN MEDIANAME T BIN RACK VOLUME TO BIN MEDIANAME T
BOR007 A00770 A00770 3480
TOTAL NUMBER OF ENTRIES LISTED = 1
REMOVABLE MEDIA MANAGER
                                           VOLUMES TO BE MOVED FROM LOCATION BORISOV TO LOCATION SHELF
                                                                                                         PAGE 1
DATE 07/05/2012
          Copyright IBM Corp. 1993,2012
    VOLUME RACK OWNER MEDIANAME T BIN VOLUME RACK OWNER MEDIANAME T BIN VOLUME RACK OWNER MEDIANAME T
BOR008 A00771 A00771 RMMUSER 3480 Y
TOTAL NUMBER OF ENTRIES LISTED = 1
REMOVABLE MEDIA MANAGER VOLUMES TO BE MOVED FROM LOCATION MINSK TO LOCATION BORISOV Copyright IBM Corp. 1993,2012
                                                                                                        DATE 07/05/2012
BIN RACK VOLUME TO BIN MEDIANAME T BIN RACK VOLUME TO BIN MEDIANAME T BIN RACK VOLUME TO BIN MEDIANAME T
     A00772 A00772 BOR014
TOTAL NUMBER OF ENTRIES LISTED = 1
```

Figure 70. FMSTBIN Report sample

FMSTOWN report

The FMSTOWN report, as shown in <u>Figure 71 on page 73</u>, is a volume movement report that is sorted by owner name.

```
REMOVABLE MEDIA MANAGER
                                                                                                                                                                            VOLUMES TO BE MOVED FROM LOCATION BORISOV TO LOCATION MINSK
                                                                                                                                                                                                                                                                                                                                                                                                                               PAGE 1
DATE 07/05/2012
                                 Copyright IBM Corp. 1993,2012
OWNER BIN TO BIN RACK MEDIANAME T OWNER 
TOTAL NUMBER OF ENTRIES LISTED = 1
REMOVABLE MEDIA MANAGER

VOLUMES TO BE MOVED FROM LOCATION BORISOV TO LOCATION SHELF 5650-ZOS Copyright IBM Corp. 1993,2012
                                                                                                                                                                                                                                                                                                                                                                                                                               PAGE 1
DATE 07/05/2012
                            VOLUME RACK BIN MEDIANAME T OWNER VOLUME RACK BIN MEDIANAME T OWNER VOLUME RACK BIN
                                                                                                                                                                                                                                                                                                                                                                                                                               MEDIANAME T

        RMMUSER
        A00201
        A00201
        B0R003
        3480

        RMMUSER
        A00202
        A00202
        B0R004
        3480

        RMMUSER
        A00203
        A00203
        B0R005
        3480

        RMMUSER
        A00204
        B0R006
        3480

        RMMUSER
        A00771
        A00771
        B0R006
        3480

TOTAL NUMBER OF ENTRIES LISTED = 5
REMOVABLE MEDIA MANAGER
5650-ZOS Copyright IBM Corp. 1993,2012
                                                                                                                                                                    VOLUMES TO BE MOVED FROM LOCATION MINSK TO LOCATION BORISOV
                                                                                                                                                                                                                                                                                                                                                                                                                              PAGE 1
DATE 07/05/2012
OWNER BIN TO BIN RACK MEDIANAME T OWNER BIN TO BIN RACK MEDIANAME T
TOTAL NUMBER OF ENTRIES LISTED = 1
```

Figure 71. FMSTOWN Report sample

RDYTOSCR report

The RDYTOSCR report, as shown in <u>Figure 102 on page 104</u>, is a report that includes information about volumes to be moved from locations to home locations.

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.

```
REMOVABLE MEDIA MANAGER
SEGO-ZOS COPYRIGHT IBM COTP. 1993,2012

BIN VOLUME RACK OWNER MEDIANAME T BIN VOLUME RACK OWNER MEDIANAME T BIN VOLUME RACK OWNER MEDIANAME T

BOR003 A00201 A00201 RMMUSER 3480 Y
BOR004 A00202 A00202 RMMUSER 3480 Y
BOR006 A00204 RMMUSER 3480 Y
```

Figure 72. RDYTOSCR Report sample

TOSTOWN report

The TOSTOWN report, as shown in <u>Figure 96 on page 95</u>, is a volume movement report that is sorted by owner name.

```
REMOVABLE MEDIA MANAGER
                                                            VOLUMES TO BE MOVED FROM LOCATION SHELF
                                                                                                                 TO LOCATION BORISOV
               Copyright IBM Corp. 1993,2012
                                                                                                                                               DATE 07/05/2012
OWNER VOLUME RACK BIN MEDIANAME T OWNER VOLUME RACK BIN MEDIANAME T OWNER VOLUME RACK BIN
           A00150 A00150 BOR009 3480
           A00151 A00151 B0R000 3480
A00151 A00151 B0R010 3480
A00152 A00152 B0R011 3480
A00153 A00153 B0R012 3480
A00154 A00154 B0R013 3480
TOTAL NUMBER OF ENTRIES LISTED = 5
REMOVABLE MEDIA MANAGER
                                                            VOLUMES TO BE MOVED FROM LOCATION SHELF TO LOCATION MINSK
              Copyright IBM Corp. 1993,2012
                                                                                                                                                DATE 07/05/2012
        VOLUME RACK BIN MEDIANAME T OWNER
                                                                                                                                                 MEDIANAME T
OWNER
                                                            R VOLUME RACK BIN MEDIANAME T OWNER VOLUME RACK BIN
RMMUSER A00400 RAC400
RMMUSER A00401 RAC401
RMMUSER A00402 RAC402
RMMUSER A00403 RAC403
RMMUSER A00404 RAC404
RMMUSER A00773 RAC773
TOTAL NUMBER OF ENTRIES LISTED = 6
```

Figure 73. TOSTOWN Report sample

TOSTRCK report

The TOSTRCK report, as shown in <u>Figure 74 on page 74</u>, is a volume movement report that is sorted by rack number.

```
REMOVABLE MEDIA MANAGER
                                                  VOLUMES TO BE MOVED FROM LOCATION SHELF
                                                                                               TO LOCATION BORISOV
                                                                                                                        DATE 07/05/2012
             Copyright IBM Corp. 1993,2012
RACK VOLUME BIN OWNER MEDIANAME T RACK VOLUME BIN
                                                                 OWNER MEDIANAME T RACK VOLUME BIN OWNER
                                                                                                                         MEDIANAME T
A00150 A00150 BOR009
                               3480
A00151 A00151 B0R010
A00152 A00152 B0R011
A00153 A00153 B0R012
A00154 A00154 B0R013
                               3480
                               3480
TOTAL NUMBER OF ENTRIES LISTED = 5
REMOVABLE MEDIA MANAGER
                                                  VOLUMES TO BE MOVED FROM LOCATION SHELF
                                                                                               TO LOCATION MINSK
                                                                                                                       DATE 07/05/2012
5650-ZOS Copyright IBM Corp. 1993,2012
RACK VOLUME BIN OWNER MEDIANAME T RACK VOLUME BIN
                                                                            MEDIANAME T RACK VOLUME BIN OWNER
RAC400 A00400
                      RMMUSER
                      RMMUSER
RMMUSER
RMMUSER
RAC404 A00404
                      RMMUSER
RAC773 A00773
                     RMMUSER
TOTAL NUMBER OF ENTRIES LISTED = 6
```

Figure 74. TOSTRCK Report sample

Using scratch list reports

Before you begin: 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.

You can use scratch list reports to identify volumes that can be used to satisfy scratch requests. Each report consists of repeating data columns. 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.

NEWSCR report

The NEWSCR report, as shown in Figure 75 on page 76, is a report that lists all scratch volumes returned to scratch status since the last scratch list was produced.

REMOVABLE MEDIA MANAGER 5650-ZOS Copyright	R IBM Corp. 1993,2012	NEW SCRA	TCH VOLUMES SINCE 07/05/2012 01:34:35 POOL	NAME			PAGE DATE	07/05/2012
VOLSER RACK MEDIANAME	SCRATCH DATE+TIME	LOCATION	DATA SET NAME	VSEQ	DSEQ	MEDIAT	YPE	
RMM102 RMM102 CART RMM103 RMM103 CART RMM104 RMM104 CART	07/05/2012 01:41:08 07/05/2012 01:41:08 07/05/2012 01:41:08	ATL10001 ATL10001 ATL10001		1 1 1	0 0 0	ECCST ECCST ECCST		
TOTAL NUMBER OF ENTRIES	S LISTED = 3							
REMOVABLE MEDIA MANAGER 5650-ZOS Copyright 1	R IBM Corp. 1993,2012	NEW SCRA	TCH VOLUMES SINCE 07/05/2012 01:34:35 POOL	NAME		1	PAGE DATE	1 07/05/2012
VOLSER RACK MEDIANAME	SCRATCH DATE+TIME	LOCATION	DATA SET NAME	VSEQ	DSEQ	MEDIAT	YPE	
A00800 A00800 3480 A00801 A00801 3480 A00802 A00802 3480 A00803 A00803 3480 A00804 A00804 3480	07/05/2012 01:41:14 07/05/2012 01:41:14 07/05/2012 01:41:14 07/05/2012 01:41:14 07/05/2012 01:41:14	MINSK MINSK MINSK MINSK MINSK	DS. A00800 DS. A00801 DS. A00802 DS. A00803 DS. A00804	1 1 1 1	0 0 0 0	* * * *		
TOTAL NUMBER OF ENTRIES	S LISTED = 5							
REMOVABLE MEDIA MANAGEF 5650-ZOS Copyright	R IBM Corp. 1993,2012	NEW SCRA	TCH VOLUMES SINCE 07/05/2012 01:34:35 POOL	NAME			PAGE DATE	1 07/05/2012
VOLSER RACK MEDIANAME	SCRATCH DATE+TIME	LOCATION	DATA SET NAME	VSEQ	DSEQ	MEDIAT	YPE	
A00150 A00150 3480 A00151 A00151 3480 A00152 A00152 3480 A00153 A00153 3480 A00153 A00154 3480 A00604 A00600 3480 A00600 A00600 3480 A00602 A00602 3480 A00602 A00603 3480 A00604 A00603 3480 A00604 A00603 3480	07/05/2012 01:41:07 07/05/2012 01:41:07 07/05/2012 01:41:07 07/05/2012 01:41:07 07/05/2012 01:41:07 07/05/2012 01:41:16 07/05/2012 01:41:16 07/05/2012 01:41:16 07/05/2012 01:41:16 07/05/2012 01:41:16	SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF	DS.A00600 DS.A00601 DS.A00602 DS.A00603 DS.A00604	1 1 1 1	0 0 0	* * *		
TOTAL NUMBER OF ENTRIES								
REMOVABLE MEDIA MANAGER 5650-ZOS Copyright IBN	R 1 Corp. 1993,2012	NEW SCRA	TCH VOLUMES SINCE 10/03/2012 03:09:28 POOL	NAME SGN	MTL01	DA	PAGE TE 10	10/03/2012
VOLSER RACK MEDIANAME	SCRATCH DATE+TIME	LOCATION	DATA SET NAME	VSEQ	DSEQ	MEDIAT	YPE	
A10604 A10604 3480 A10605 A10605 3480 A10606 A10606 3480 A10607 A10607 3480 A10608 A10608 3480	10/03/2012 07:57:40 10/03/2012 07:57:40 10/03/2012 07:57:40 10/03/2012 07:57:40 10/03/2012 07:57:40	MTL13480 MTL13480 MTL13480 MTL13480 MTL13480	DS. A10604 DS. A10605 DS. A10606 DS. A10607 DS. A10608	1 1 1 1 1	0 0 0 0	CST CST CST CST CST		
TOTAL NUMBER OF ENTRIES								

Figure 75. NEWSCR Report sample

SCRLIST report

The SCRLIST report, as shown in Figure 76 on page 77, is the output file for the full scratch list report.

REMOVABLE MEDIA MANAGER 5650-ZOS Copyright IBM Corp. 1	SCRATCH VOLUMES BY POOL NAME	PAGE DATE	07/05/2012
VOLSER RACK MEDIANAME SCRATCH DA	ATE+TIME LOCATION DATA SET NAME	VSEQ DSEQ MEDIATYPE	
RMM102 RMM102 CART 07/05/2012 RMM103 RMM103 CART 07/05/2012 RMM104 RMM104 CART 07/05/2012	2 01:41:08 ATL10001 2 01:41:08 ATL10001 2 01:41:08 ATL10001	1 0 ECCST 1 0 ECCST 1 0 ECCST	
TOTAL NUMBER OF ENTRIES LISTED = 3			
	SCRATCH VOLUMES BY POOL NAME		1 07/05/2012
VOLSER RACK MEDIANAME SCRATCH DA	ATE+TIME LOCATION DATA SET NAME	VSEQ DSEQ MEDIATYPE	
A00800 A00800 3480 07/05/2012 A00801 A00801 3480 07/05/2012 A00802 A00802 3480 07/05/2012 A00803 A00803 3480 07/05/2012 A00804 A00804 3480 07/05/2012	ATE+TIME LOCATION DATA SET NAME 2 01:41:14 MINSK DS.A00800 2 01:41:14 MINSK DS.A00801 2 01:41:14 MINSK DS.A00802 2 01:41:14 MINSK DS.A00803 2 01:41:14 MINSK DS.A00803	1 0 * 1 0 * 1 0 * 1 0 * 1 0 *	
TOTAL NUMBER OF ENTRIES LISTED = 5			
REMOVABLE MEDIA MANAGER 5650-ZOS Copyright IBM Corp. 1	SCRATCH VOLUMES BY POOL NAME	PAGE DATE	1 07/05/2012
VOLSER RACK MEDIANAME SCRATCH DA	ATE+TIME LOCATION DATA SET NAME	VSEQ DSEQ MEDIATYPE	
A00150 A00150 3480 07/05/2012 A00151 A00151 3480 07/05/2012 A00152 3480 07/05/2012 A00153 A00153 3480 07/05/2012 A00154 A00154 3480 07/05/2012 A00604 A00600 3480 07/05/2012 A00602 A00602 3480 07/05/2012 A00603 A00603 3480 07/05/2012 A00604 A00604 3480 07/05/2012 A00604 A00604 3480 07/05/2012	2 01:41:07 SHELF	1 0 * 1 0 * 1 0 * 1 0 * 1 0 * 1 0 * 1 0 * 1 0 * 1 0 * 1 0 * 1 0 *	
TOTAL NUMBER OF ENTRIES LISTED = 1			
REMOVABLE MEDIA MANAGER 5650-ZOS Copyright IBM Corp. 1	SCRATCH VOLUMES BY POOL NAME SGMTL01	PAGE DATE	10/03/2012
VOLSER RACK MEDIANAME SCRATCH DA		VSEQ DSEQ MEDIATYPE	
A10604 A10604 3480 10/03/2012 A10605 A10605 3480 10/03/2012 A10606 A10606 3480 10/03/2012 A10607 A10607 3480 10/03/2012 A10608 A10608 3480 10/03/2012 TOTAL NUMBER OF ENTRIES LISTED = 5	2 07:57:40 MTL13480 DS.A10604 2 07:57:40 MTL13480 DS.A10606 2 07:57:40 MTL13480 DS.A10606 2 07:57:40 MTL13480 DS.A10607 2 07:57:40 MTL13480 DS.A10608	1 0 CST 1 0 CST 1 0 CST 1 0 CST 1 0 CST 1 0 CST	
TOTAL NUMBER OF ENTRIES LISTED = 5	,		

Figure 76. SCRLIST Report sample

Using EDGAUD to create security and audit reports

Use the EDGAUD utility to create security reports and audit reports, using either previously selected and sorted SMF records or raw SMF data. DFSMSrmm produces SMF records when you specify the DFSMSrmm EDGRMMxxparmlib OPTION SMFAUD operand or the SMFSEC operand. See <u>z/OS DFSMSrmm Implementation and Customization Guide</u> 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 security reports, DFSMSrmm produces one line in the report for each security SMF record found in the input file.

For audit reports, 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 77 on page 78.

```
//AUDREPT
                EXEC
                        PGM=EDGAUD,
        PARM='SMFAUD(nnn),SMFSEC(nnn),SEC("security classification")'
 //SYSPRINT
               DD
                       program messages
                       input data set of SMF records audit report
 //SMFIN
                DD
 //AUDREPT
                DD
 //SECREPT
                DD
                       security report
DFSORT messages
                DD
 //SYSOUT
 //SYSIN
                DD
                        select statements for audit report
Figure 77. JCL for EDGAUD
```

EXEC parameters for EDGAUD

Figure 78 on page 78 shows the EXEC parameters for EDGAUD.

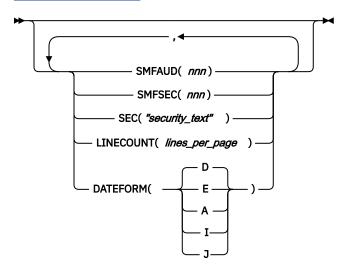


Figure 78. EDGAUD EXEC parameters

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	12/15/2012
E	European	dd/mm/yyyy	15/12/2012
I	ISO	yyyy/mm/dd	2012/12/15
J	Julian	yyyy/ddd	2012/350
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 type from the user-written range to be used to select data for reporting. Specify SMFAUD to override the current subsystem startup option value or

to select DFSMSrmm SMF records from the user-written range. EDGAUD always selects SMF records that are from the standard IBM SMF record types supported by DFSMSrmm. This parameter is only required if you are not using the IBM-assigned SMF record types for DFSMSrmm.

EDGAUD always checks the SMFIN file for SMF records of the IBM-assigned SMF record type and subtype, regardless of the setting of SMFAUD in parmlib.

SMFSEC(nnn)

Specifies a number that represents the SMF record type from the user-written range to be used to select data for reporting. Specify SMFSEC to override the current subsystem startup option value or to select DFSMSrmm SMF record from the user-written range. This parameter is only required if you are not using the IBM-assigned SMF record types for DFSMSrmm.

EDGAUD always checks the SMFIN file for SMF records of the IBM-assigned SMF record type and subtype, regardless of the setting of SMFSEC in parmlib.

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.

SECREPT

SECREPT 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 the following code.

```
//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

When you specify the AUDREPT DD statement to request the audit report, you can use the SYSIN file to specify SELECT statements as described in <u>"SYSIN commands for EDGAUD" on page 79</u> to tailor the contents of the audit report. The SYSIN DD statement is optional.

SYSIN commands for EDGAUD

Figure 79 on page 80 shows the format of the audit report selection options that you can supply for SYSIN.

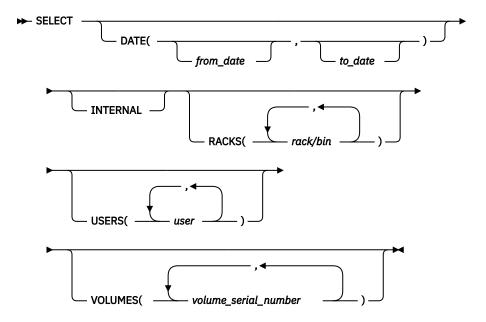


Figure 79. EDGAUD SYSIN commands

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 80 on page 80.

```
JOB 'SMF/S1SMF03', NOTIFY=LYONS, CLASS=A, USER=LYONS,
             PASSWORD=LYONS, MSGLEVEL=(1,1), MSGCLASS=H, REGION=4M
//
//AUDREPT
            EXEC PGM=EDGAUD.
             PARM='SMFAUD(248), SMFSEC(249), SEC(IUO), DATEFORM(A)'
//SYSPRINT
            DD
                  SYSOUT=*
//SMFIN
                   DISP=SHR, DSN=RMMTST.S1SMF02.MANXY
//AUDREPT
            DD DISP=(NEW,CATLG),UNIT=SYSALLDA,
DSN=RMMTST.S1SMF03.AUDREPT,
             SPACE=(4096,(10,1),RLSE)
//SECREPT
            DD
                  DISP=(NEW, CATLG), UNIT=SYSALLDA,
             DSN=RMMTST.S1SMF03.SECREPT,
            SPACE=(4096,(10,1),RLSE)
//SYSOUT
            DD
                  DUMMY
//SYSIN
            DD
SELECT DATE(02/21/2013,02/24/2013) -
VOLUMES(A0423*,A0433*) RACK(A0423*,A0433*) -
USERS(LYONS,RMMU001,SMFU001,SMFU002,SMFU003)
```

Figure 80. Example of JCL for using the SELECT SYSIN

DFSMSrmm always produces three reports in the AUDREPT file; a volumes report, a racks report, and a users report. You can select the records that appear in the reports by using the VOLUMES, USERS, and RACKS operands. If you do not specify the DATE operand, all the input records selected are subject to other selection criteria you have specified.

SELECT

Specify SELECT if you want to tailor the contents of the audit 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 specified by the EDGAUD EXEC DATEFORM parameter or (if DATEFORM is not specified) by the DATEFORM parameter value defined by the installation. For example, if your installation set DATEFORM(J), specify:

```
DATE(2013/123,2013/223)
```

INTERNAL

Specify to include changes made by DFSMSrmm housekeeping. By default, record changes made by DFSMSrmm housekeeping functions are not included in the report.

RACKS(rack/bin)

Specify to limit the report to specific rack numbers or bin numbers. A rack number is six alphanumeric, national, or special characters in any combination. A bin number is six alphanumeric or national characters in any combination. 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.

VOLUMES(volume_serial_number)

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

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

Using the security report

Secure volumes are volumes you identify using the SECCLS parmlib command described in <u>z/OS</u> <u>DFSMSrmm Implementation and Customization Guide</u>. When you specify SMF(Y) and the option SMFSEC(nnn), 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 81 on page 82, is comprised of these data columns:

DATA SET NAME

Classified data set name

VOLUME

Volume where the data set resides

VSO

Volume serial number

DSO

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 81 on page 82 shows excerpts from a security report.

	2						-			PAGE DATE 20	
A SET NAME	VOLUME	VSQ	DSQ	MEDIA	ACTION	SECURITY	GROUP	USERID	SYST	DATE	TIME
RJOY.S1ATL026.D65DM1.BACKUP RJOY.S1ATL026.D65DM1.BACKUP RJOY.S1ATL026.D65DM1.BACKUP RJOY.S1ATL026.USRPCK.BACKUP RJOY.S1ATL026.USRPCK.BACKUP RJOY.S1ATL026.USRPCK.BACKUP RJOY.S1ATL026.USRPCK.BACKUP U001.RAC005.DS1 U001.RAC005.DS1 U001.RAC005.DS1 U001.RAC005.DS1 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2 U001.RAC005.DS2	002030 002031 002033 002030 002030 002030 A00099 123456 A04101 A00099 123456 A04101 A04101 A04201	23 11 11 11 11 11 11	2 1 1 1 1 1 1 2 2 2 2	3490 3490 3490 3490 3490 3490 3480 3480 3480 3480 3480 3480 3480 348	CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE CREATE	GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL GENERAL	SYS1 SYS1 SYS1 SYS1 SYS1 SYS1 D65RMM D65RMM D65RMM D65RMM D65RMM D65RMM D65RMM D65RMM D65RMM D65RMM	DILE DILE DILE MIKE DILE RMMU001 RMMU001 RMMU001 RMMU001 RMMU001 RMMU001 RMMU001 RMMU001 LYONS LYONS	3090 3090 3090 3090 3090 3090 3090 3090	02/23/2012 02/23/2012 02/23/2012 02/19/2012 02/19/2012 02/19/2012 02/19/2012 02/22/2012 02/19/2012 02/22/2012 02/22/2012 02/22/2012 02/22/2012 02/23/2012 02/23/2012 02/23/2012	16:28:25 16:35:02 14:50:50 15:15:11 16:17:37 11:06:46 14:19:12 11:08:05 13:14:28 11:06:48 14:19:14 11:08:07 13:14:29 16:48:24

Figure 81. Report of access to secure volumes

Using the audit report

Use the audit report 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 when you specify option SMFAUD(nnn). 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 these individual reports: the VOLUME report, the RACK/BIN report, and the USERID report.

· VOLUME report

DFSMSrmm adds a report line in the volume report 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 these 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 <u>"Excerpts from an audit trail report" on page 84</u>. 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:

ABEND

A data set on the volume was closed by abend processing.

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.

RELEASE

Volume is pending release.

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.

"Excerpts from an audit trail report" on page 84 shows excerpts from an audit trail report. The first column heading identifies the type of report information that is contained in the report.

Excerpts from an audit trail report

REMOVABLE	E MEDIA	MANAG	ER		AU	DIT TRAIL	REPORT					PAGE	1
5650-Z0S	Co	pyrigh	nt IBM Co	rporation 20	900,2012							D	ATE 2013/01/01
VOLUME RA	ACK E	BIN	USERID	DATE	TIME	SYSTEM	STATUS	LOCATION	LOAN LOC	OWNER	EXP DATE	SECURITY	ACTIVITY
111000 11 111041 11 111054 11 111056 11 111089 11 111113 11 111122 11 111124 11 111127 11	11000 6 11041 6 11054 6 11056 6 11089 6 11113 6 11112 6 11124 6 11127 6 11128 6	000033 000042 000043 000044 000048 000121 000122 000123 000124	DENZEL BJK PALMER WRIGHT GILLPAT WHEELER PENDLTN ZOUNEK TAUBER RDRHSME	06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012	04:00:10 04:00:03 04:00:14 04:00:10 04:00:08 04:00:12 04:00:15 04:00:15 04:00:07	E4E4 E4E4 E4E4 E4E4 E4E4 E4E4 E4E4 E4E	MASTER MASTER MASTER MASTER MASTER MASTER MASTER MASTER MASTER MASTER MASTER	<pre><remote pre="" remote="" remote<=""></remote></pre>		RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME	07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012	U U U U U U U	UPDATE
REMOVABLE	E MEDIA	MANAG	ER		AU	DIT TRAIL	REPORT					PAGE	2
5650-Z0S	Сс	pyrigh	nt IBM Co	rporation 20	900, 2012							D	ATE 2013/01/01
RACK/BIN			USERID		TIME	SYSTEM					EXP DATE		ACTIVITY
000033 000042 000043 000044 000122 000123 000124 000125 111041	111000 111041 111054 111056 111122 111124 111127 111128) 	WEISSEN WEISSEN GILLESP GILLESP KIRCHHOF KIRCHHOF SMAX SMAX MOREY	06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012	04:00:10 04:00:03 04:00:14 04:00:10 04:00:15 04:00:15 04:00:07 04:00:07	E4E4 E4E4 E4E4 E4E4 E4E4 E4E4 E4E4 E4E	MASTER MASTER MASTER MASTER MASTER MASTER MASTER MASTER MASTER	REMOTE REMOTE REMOTE REMOTE REMOTE REMOTE REMOTE REMOTE REMOTE		RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME RDRHSME	07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012 07/11/2012	U U U U U U U	UPDATE
REMOVABLE	E MEDIA	MANAG	ER		AU	DIT TRAIL	REPORT					PAGE	3
5650-Z0S				rporation 20								D	ATE 2013/01/01
USERID	VOLUME	RACK	BIN	DATE	TIME	SYSTEM	STATUS	LOCATION	LOAN LOC	OWNER	EXP DATE	SECURITY	ACTIVITY
DENZEL BJK PALMER WRIGHT GILLPAT WHEELER PENDLTN ZOUNEK TAUBER RDRHSME STCHSM MOREY	111044 111044 111206 111627 111206 111286 111286 111286 111286	1 11104 1 11104 1 11104 1 11126 1 11126 1 11128 1 11128 1 11128 1 11128 1 11128	14 14 14 16 16 16 16 16 16 16 16 16 16 16 16 16	06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012 06/11/2012	01:01:05 01:01:05 01:01:05 01:01:07 01:01:07 01:01:07 01:01:09 01:01:09 01:01:09 01:01:09 01:01:09	E4E4 E4E4 E4E4 E4E4 E4E4 E4E4 E4E4 E4E	SCRTCH IN USE SCRTCH SCRTCH MASTER IN USE SCRTCH SCRTCH MASTER IN USE SCRTCH SCRTCH	SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF		KOEPPEL WALDO WALDO RDROPCA RDROPCA RDROPCA	28/07/2012 28/07/2012 28/07/2012 28/07/2012 07/10/2012 07/10/2012	U U U U U U U U U U U	UPDATE DELETE CREATE UPDATE UPDATE DELETE CREATE UPDATE

Return codes for EDGAUD

EDGAUD issues one of the return codes that are shown in Table 8 on page 84.

Table 8. EDG	AUD 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 5. Creating reports using DFSMSrmmsupplied EXECs

DFSMSrmm provides restructured extended executor (REXX) EXECs and JCL that you can use to create the reports that are described in Table 9 on page 85. 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 88.

You can use the sample EDGJRPT JCL, which is provided in SAMPLIB, to invoke the EDGRRPTE REXX EXEC to create the reports. See Appendix C, "List of DFSMSrmm samples," on page 327 for other samples that are provided in SAMPLIB. The input to the reporting EXEC is the extended extract data set. The extract data set contains an extended extract record concatenating volume and data set information. The data set record information starts at byte 800 in the EDGRXEXT mapping macro. For stacked volumes, DFSMSrmm merges the stacked volume location information into the location information for all volumes that are contained in the stacked volume.

You can create reports that include data set size, volume usage, and capacity. Data set size and volume usage are available in both KB and factored values. If you are using existing KB values, these fields have a maximum value of 9 999 999 KB, or approximately, 9 TB. For larger tape volume capacities and improvements in compression, use the fields that contain values that are factored. Initially, these are in MB, but they can also be factored to TB as tape capacity increases. If you are reporting on small data sets (where the data sets size or volume capacity used is so small that you need to see the KB values), do not use the fields that contain values that are factored. If a KB byte field is no longer large enough to contain the value, the value is set to '-1'. This indicates that the factored fields should be used instead. When reporting from SMF records, data set size and volume use are recorded in 64 bit fields in KB only.

Use the sample EDGJRPT JCL with the EDGRRPTE REXX EXEC to produce the reports that are shown in Table 9 on page 85.

Table 9. DFSMSrmm reports

Report Name	Description
REPORT01	Pull list for scratch tapes 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
REPORT06	Inventory of volume serial numbers by location
REPORT07	Inventory of data set names by location
REPORT08	Inventory of bin numbers by location
REPORT09	List of data set names at loan locations
REPORT10	List of volume serial numbers at loan locations
REPORT11	List of multivolume data sets
REPORT12	Movement report including the first data set name on the volume
REPORT13	Movement report by storage location bin number
REPORT14	Movement report by volume serial number
REPORT15	Inventory list sorted by volume serial number including volume count

Table 9. DFSMSrmm reports (continued)

Report Name	Description
REPORT16	List of duplicate volume serial numbers
REPORT17	Inventory of stacked volumes by percent active
REPORT18	Inventory of data sets by volume retention method

Creating reports

Create an extended extract data set during DFSMSrmm inventory management. Then use the EDGRRPTE EXEC to create the DFSMSrmm-supplied reports. See <u>"Tailoring the DFSMSrmm-supplied EXECs to create</u> your own reports" on page 88 for further information.

To create reports, follow this procedure:

- 1. Make a copy of the sample EDGJRPT JCL that is in SAMPLIB. Use the DFSMSrmm extended extract data set as input to EDGJRPT to create the reports.
- 2. Create a DFSMSrmm extended extract data set by using the DFSMSrmm EDGHSKP utility with XREPTEXT DD statement.
- 3. Make sure that all the messages that the DFSMSrmm subsystem issues during inventory management are copied to your job log.Refer to the step named STEP02 in the sample EDGJRPT JCL.
- 4. Produce the extended reports. Remove the //REPORTnnDD statements for each report that you do not want to run. Refer to the step named EXTRPDT in the sample EDGJRPT JCL.

Tailoring the EDGJRPT sample JCL

Before you can use the JCL, you must customize the sample EDGJRPT JCL for your environment. Follow this procedure:

- 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. Replace RMM.EXTRACT.FILE in the EDGJRPT JCL with the name of your extended extract data set. You must make this change wherever the RMM.EXTRACT.FILE file report name is specified.
- 4. Change the SPACE and UNIT parameter for the SORTOUT and SYSIN statements. Calculate the DASD space requirements by multiplying the number of data set records by 1800 bytes for each record.
- 5. Replace the "054" value, if you need to use a value other than 54. The lines per page are defined as a parameter to the EDGRRPTE REXX procedure.
- 6. Select your reports by using the REPORT*nn*DD names that are defined in the EDGJRPT JCL. <u>Figure 82 on page 87</u> shows a part of the sample JCL and how to pass parameters to the EDGRRPTE procedure. The example that is shown in <u>Figure 82 on page 87</u> selects all reports except REPORT06 and REPORT07, which are commented out.

```
//EXTRPDT EXEC PGM=IKJEFT01,DYNAMNBR=99,REGION=4096K
//SYSTSPRT DD
                SYSOUT=*
//SYSPRINT DD
                SYSOUT=*
                 DISP=SHR, DSN=RMM.EXTRACT.FILE
//SORTIN
           חח
//SORTOUT DD
                DSN=&TEMP01, DISP=(, PASS, DELETE)
           SPACE=(CYL, (200, 20), RLSE), UNIT=SYSALLDA,
           DCB=*.SORTIN
//SYSIN
           DD DSN=&TEMP02,DISP=(,PASS,DELETE),
SPACE=(TRK,(1,1),RLSE),UNIT=SYSALLDA,
           DCB=(LRECL=80,BLKSIZE=3120,RECFM=FB)
//SYSOUT
           DD
                 SYSOUT=*
//REPORT01 DD
                SYSOUT=*, RECFM=VBA
//REPORT02 DD
                SYSOUT=*, RECFM=VBA
//REPORT03 DD
                 SYSOUT=*, RECFM=VBA
//REPORT04 DD
                 SYSOUT=*, RECFM=VBA
//REPORT05 DD
                 SYSOUT=*, RECFM=VBA
//*EPORT06 DD
                 SYSOUT=*, RECFM=VBA
//*EPORT07 DD
                 SYSOUT=*, RECFM=VBA
//REPORTO8 DD
                 SYSOUT=*, RECFM=VBA
//REPORT09 DD
                 SYSOUT=*, RECFM=VBA
//REPORT10 DD
                 SYSOUT=*, RECFM=VBA
//REPORT11 DD
                 SYSOUT=*, RECFM=VBA
                 SYSOUT=*, RECFM=VBA
//REPORT12 DD
//REPORT13 DD
                 SYSOUT=*, RECFM=VBA
//REPORT14 DD
                 SYSOUT=*, RECFM=VBA
//REPORT15 DD
                 SYSOUT=*, RECFM=VBA
//REPORT16 DD
                 SYSOUT=*, RECFM=VBA
//REPORT17 DD
                 SYSOUT=*, RECFM=VBA
//REPORT18 DD
                 SYSOUT=*, RECFM=VBA
//SYSTSIN DD
  EX 'SYS1.SEDGEXE1(EDGRRPTE)' -
     '054 INTERNAL USE ONLY
```

Figure 82. Report selection

- SYSTSPRT specifies the name of the DD to which data is written for a REXX SAY instruction, for REXX error messages, or when tracing is started (in a language processor environment that is not integrated into TSO/E). The system default is SYSTSPRT.
- SYSPRINT contains the messages generated from external called functions and utilities.
- SORTIN specifies the data set name of the DFSMSrmm extract file containing the extended extract records.
- SORTOUT specifies the output data set for the internally called SORT.
- SYSIN specifies the temporary data set used to store the SORT control statements.
- SYSOUT contains the messages generated from external called functions and utilities. The messages contain statistics, information, and error details. Use the messages to determine whether processing has been successful and to follow up on any nonzero return code.
- REPORTnn selects your reports by using the REPORTnn DD names that are defined in the EDGJRPT JCL.

If you would like to create the reports as a data set instead of SYSOUT=* you need to know the DCB information for each report file. You need to consider the line length of the report to be produced, the ASA control character and that the records are variable length. You only need to specify the LRECL if the data set already exists and the existing LRECL is too low a value. For new report files, the default LRECL is set to 251 by the Rexx EXECIO processor: If you really need to specify an LRECL other than 251 we list here the existing maximum record length for each report. These record lengths can change anytime we need to update the report; if you specify too short a value for LRECL the report lines are truncated and a warning message is issued by EXECIO.

For example: Abnormal end in output processing of DDname REPORT11.

Return code 01 was set.

Explanation: Data was truncated during DISKW operation.

```
REPORT01 RECFM=VBA, LRECL=137
REPORTO2 RECFM=VBA, LRECL=137
REPORTO3 RECFM=VBA, LRECL=139
REPORTO4 RECFM=VBA, LRECL=139
REPORT05 RECFM=VBA, LRECL=139
REPORTO6 RECFM=VBA, LRECL=137
REPORTO7 RECFM=VBA, LRECL=137
REPORTO8 RECFM=VBA, LRECL=137
REPORTO9 RECFM=VBA, LRECL=137
REPORT10 RECFM=VBA, LRECL=137
REPORT11 RECFM=VBA, LRECL=141
REPORT12 RECFM=VBA, LRECL=137
REPORT13 RECFM=VBA, LRECL=137
REPORT14 RECFM=VBA, LRECL=137
REPORT15 RECFM=VBA, LRECL=137
REPORT16 RECFM=VBA, LRECL=137
REPORT17 RECFM=VBA, LRECL=137
REPORT18 RECFM=VBA, LRECL=137
```

Figure 83. Data control block (DCB) information for each Report file

7. <u>Figure 84 on page 88</u> shows how to replace the default security heading text. The security heading text can be up to 30 characters. The text can contain blanks or special characters and is written on each page. Use the continuation character "+" to suppress all the leading blanks in the new line.

```
EX 'SYS1.SEDGEXE1(EDGRRPTE)' -
'054 Internal use only'
#ਮਸਮਸਮਸਮਸਮਸਮਸਮਸਮਸਮਸਮਸ ----- security heading text - up to 30 chars
```

Figure 84. Creating a Report security header

- 8. Optionally, add the CCARD DD to overwrite the internal SORT statements, the security header, or the lines per page; or to exclude the setting of flags with volume chain errors in REPORT11 for specified data sets. Figure 85 on page 88 shows an example of specifying the CCARD DD statements. Valid parameters that can be specified are:
 - REPORTnn (nn= 01 to 18) for the SORT statements
 - HEAD for the security header
 - LINES for the lines per page
 - /* for the end of the records
 - XMSG11 to suppress the reporting of volume chain errors in REPORT11 for specified data sets. Specify the first letters of one or more dsnames after XMSG11.

```
//CCARD DD *
SORT06 SORT FIELDS=(156,8,CH,A,9,6,CH,D,915,4,CH,A)
SORT06 INCLUDE COND=(5,1,CH,EQ,C'X',
SORT06 AND,(583,1,CH,EQ,C'S',
SORT06 OR,583,1,CH,EQ,C'U'))
SORT06 OPTION VLSHRT
LINES 20
HEAD INTERNAL USE
XMSG11 PROJ1.
XMSG11 TEST
/*
```

Figure 85. Defining a CCARD DD statement

Tailoring the DFSMSrmm-supplied EXECs to create your own reports

When used as is, the DFSMSrmm-supplied report REPORT01 produces a pull list for scratch volumes that are sorted by volume serial number. Follow these steps to tailor the report REPORT01 to provide information about volumes with temporary write errors instead of a pull list for scratch tapes:

1. Make a copy of the EDGRRPTE REXX EXEC to avoid losing any modifications that you make to the DFSMSrmm-supplied reports, because you will lose your changes when DFSMSrmm replaces them.

The EDGRRPTE EXEC shipped with DFSMSrmm uses the DFSORT VLSHRT option. You might need to modify the EXEC if you do not have DFSORT installed.

 To change the sort order and criteria, change the SORT FIELDS and INCLUDE statement for the REPORT01 in the EDGRRPTE REXX EXEC. To find the sort statement for the REPORT01, do a search for SORT01. You can find the fields for the SORT FIELD and the INCLUDE statement by looking at the mapping of the extended extract record EDGRXEXT.

Figure 86 on page 89 shows the DFSMSrmm-supplied EDGRRPTE REXX EXEC, where REPORT01 is sorted by volume serial number and volume status.

Figure 86. Sorting by volume serial number and volume status

<u>Figure 87 on page 89</u> shows 370 in the SORT FIELD. This is the offset in the EDGRXEXT mapping macro for the temporary write errors, plus the value 4 for the record length field.

Figure 87. Sorting by volume serial number, volume status, and temporary errors, excluding volumes without errors

3. To change the report header, modify the DFSMSrmm-supplied EDGRRPTE REXX EXEC, as shown in Figure 88 on page 89.

```
t2.1 = center('Scratch Tapes by Volume Serial Number',69)
t0.2 = left('EDGRPT01',8)
```

Figure 88. REPORT01 Report header

Figure 89 on page 89 shows the change to create a new report header named Volumes with Temporary Errors.

```
t2.1 = center('Volumes with Temporary Errors',69)
t0.2 = left('EDGRPT01',8)
```

Figure 89. REPORT01 Report header modified

4. To change the titles on the columns, modify the DFSMSrmm-supplied EDGRRPTE REXX EXEC.out.cs = αsα.his the title line for the report columns. You can find the definition for the title variables in the sample EDGRRPTE EXEC starting at the labelconst. Figure 90 on page 90 shows the report column headings as they are defined in the sample EDGRRPTE REXX EXEC.

Figure 90. REPORT01 column headings

Figure 91 on page 90 shows the variable twrte.1, which is the column heading for temporary errors.

Figure 91. REPORT01 column headings modified

5. 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 REXX EXEC, starting at the label*lclexmap.out.cs* = asa.2 is the output value that is returned in the report. Figure 92 on page 90 shows the JCL from the sample EDGRRPTE REXX EXEC.

Figure 92. REPORT01 returned values

<u>Figure 93 on page 90</u> shows the addition of the *rvtwerr* variable to obtain the temporary write error information.

Figure 93. REPORT01 returned values modified

6. Submit the job.

Using DFSMSrmm-supplied reports

This topic provides details about the reports that 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 94 on page 92, 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.

0

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.

Α

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.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

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.

Α

The volume is in an automatic system-managed library.

М

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. Frrom

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

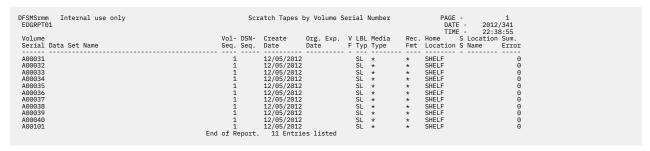


Figure 94. Sample REPORT01 output: pull list for SCRATCH tapes sorted by volume serial number

REPORT02: pull list for SCRATCH tapes sorted by data set name

REPORT02, as shown in <u>Figure 95 on page 93</u>, 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.

0

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.

Α

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.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

Home Location

The place where a volume is returned.

55

The location type which can be one of the following:

Blank

The volume is in location SHELF.

Α

The volume is in an automatic system-managed library.

М

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.

SMSrmm Internal use only EDGRPT02		Scratch Ta	pes by Data	Set N	ame		PAGE DATE	- 2012	
/olume Serial Data Set Name		Create Date			Media Type		TIME Home Location	S Location	
N00031 N00032 N00033 N00034 N00035 N00037 N00037 N00039 N00040 N00040	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 12/05/2012 11 Entri		SL SL SL SL SL SL SL SL SL SL SL SL SL S	* * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF SHELF		000000000000000000000000000000000000000

Figure 95. 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 96 on page 95, 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 that created the first data set on the volume if the creating job field is blank.

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.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

VR

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

Υ

The volume is retained as a vital record.

Ν

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.

FSMSrmm Security heading text EDGRPT03			•	•				DA			2012 22:3	/341
Volume Serial Data Set Name	Vol-	DSN-	Creating	Create	Create	Expiration	Volume			Rec.	VV	Location
Serial Data Set Name	Seq.	Seq.	Jobname	Date	Time	Date	Ref. D	ate				Name
SC0000 HMIG.HMIGTAPE.DATASET SC0001 SIEGEL.USERTEST.FALSCH SC0002 HBAC.DMP.BUILD.VBSY179.D99086.T271823 SC0003 HBAC.DMP.SUILD.VBSY179.D99086.T271823 SC0003 HBAC.DMP.TSO.VJET004.D95208.T475422 SC0004 JMY8M10.F1 SC0004 JMY8M10.F1 SC0004 JMY8M10.F3 SC0004 JMY8M10.F3 SC0004 JMY8M10.F3 SC0004 JMY8M10.F3 SC0004 JMY8M10.F4 SC0004 JMY8M10.F6 SC0004 JMY8M10.F6 SC0004 JMY8M10.F7 SC0005 SCHLUM.RMMDEMO.FILE2.VOL12 SC0005 SCHLUM.RMMDEMO.FILE3.VOL23 SC0006 SSCMVS.P9202.ESAS.EPD.DUMP	1		 1	2011/209			2011/2					
SC0001 SIEGEL.USERTEST.FALSCH	1		1	2011/185	153551		2011/1			*		
SC0002 HBAC.DMP.BUILD.VBSY179.D99086.T271823	1		1 DFHSM11	2011/086	231912	1999/365	2011/0					
SC0003 HBAC.DMP.TSO.VJET004.D95208.T475422	3		1	2011/209	062937		2011/2			*		
SC0004 SMPMCS	1		1 STACKER	2011/279			2011/2			36TR		
SC0004 JMY8M10.F1	1		2 STACKER	2011/279			2011/2			36TR		
SC0004 JMY8M10.F2	1		3 STACKER	2011/279			2011/2			36TR		
SC0004 JMY8M10.F3	1		4 STACKER	2011/279			2011/2			36TR		
SC0004 JMY8M10.F4	1		STACKER	2011/279			2011/2			36TR		
SC0004 JMY8M10.F5	1		STACKER	2011/279			2011/2			36TR		
SC0004 JMY8M10.F6	1		STACKER	2011/279			2011/2			36TR		
SCOUGH JMY8M10.F7	1		STACKER	2011/279			2011/2			36TR		
SCOOL SCHULM DAMPENO ETLES VOLAS	1		STACKER	2011/279			2011/2			36TR		
SCOOOS SCHLUM RMMDEMO FILEZ.VOLIZ	2		L	2011/200	143036		2011/2			*		
SCOORE COLLUM DAMPENO ETLES VOLZ	2		2	2011/200	143040		2011/2			*	SN	
CCOOCA CCOMUC DOOCO FOAC FOR DUMP	1) EDDDEC2	2011/200			2011/2			36TR		
SC0007 HBAC.DMP.TSO.VEPD001.D95208.T195822	4		1 EFDRESS	2011/207	062947		2011/2		SL		SN	
	l of Re			tries liste			2011/2		JL	^	J 14	

Figure 96. Sample REPORT03 output: inventory list by volume serial number

REPORT04: inventory list by data set name

REPORT04, as shown in <u>Figure 97 on page 96</u>, 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 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 data set expiration date. When the data set expiration date is higher than the volume expiration date, the volume expiration date is used instead of the data set expiration date. In this case, a flag "(*)" is set at the end of the row.

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

VR

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

Υ

The volume is retained as a vital record.

Ν

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.

PSMSrmm Security heading text EDGRPT04				,	ist by Data				D	GE - ATE IME	-		/341 8:55
Data Set Name				Creating Jobname			Expiration Date		ne		Rec.	VV	Location Name
ADDONS . CNTL	SC0019	1	3		2012/240	143829		2011/	/191	SL	*	S N	
ADDONS, CNTL	SC0464				2012/240	084232		2011/		SL		SN	
ADDONS.CNTL	SC0473	1	8		2012/240	104530		2011/		SL		S N	
ADDONS.EXEC	SC0019	1			2012/240	143834		2011/		SL		SN	
ADDONS.EXECFB	SC0464	1	4		2012/240	084205		2011/		SL		S N	
ADDONS.INITVARS	SC0019	1	10		2012/240	143906		2011/		SL		SN	
ADDONS.INITVARS	SC0464	1	6		2012/240	084223		2011/		SL		S N	
ADDONS.MSGS	SC0019	1	9		2012/240	143902		2011/		SL		S N	
ADDONS.OBJ	SC0464	1	10		2012/240	084248		2011/		SL		S N	
ADDONS.OBJ	SC0473	1	10		2012/240	104544		2011/		SL		SN	
ADDONS.PANELS	SC0019	1			2012/240	143851		2011/		SL		SN	
ADDONS.SKELS	SC0019	1			2012/240	143858		2011/		SL		SN	
HBAC.DMP.BUILD.VBSY153.D95086.T455822	SC0030	1					1999/365	2011/			36TR		
HBAC.DMP.BUILD.VBSY16A.D95086.T530423	SC0037	1			2012/240			2011/			36TR		
HBAC.DMP.BUILD.VBSY162.D95086.T150823 HBAC.DMP.BUILD.VBSY166.D95086.T370823	SC0033 SC0010	1	1		2012/240 2012/240		1999/365	2011/			36TR 36TR		
HBAC.DMP.BUILD.VBSY172.D95086.T471523	SC0010		1		2012/240			2011/			36TR		
HBAC.DMP.BUILD.VBSY175.D95086.T461723	SC0036		1		2012/240		1999/365	2011/			36TR		
TIDAC.DHF.B01ED.VB31173.D93000.1401723			port.		tries liste		1777/303	2011/	000	JL	3011	. PT IN	

Figure 97. Sample REPORT04 output: inventory list by data set name

REPORT05: inventory of data sets including used kilobytes

REPORT05, as shown in Figure 98 on page 98, 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 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 data set expiration date. When the data set expiration date is higher than the volume expiration date, the volume expiration date is used instead of the data set expiration date. In this case, a flag "(*)" is set at the end of the row.

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.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

۷S

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

Kilobytes used

The number of used kilobytes for the data set calculated by BLOCKSIZE multiplied with BLOCKCOUNT divided by 1024. 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.

PSMSrmm Security heading text EDGRPT05				,	Data Set Na				D	GE - ATE IME	-	2012/3 22:38:	
	Volume	Vol-	DSN-	Creating	Create	Create	Expiration	Volum					obytes
Data Set Name					Date			Ref.					
BSYDEP . ABARS . OUTPUT . D . G00001V00	SC0698	1		L DFHSMABR	2012/162	150444	1999/365	2011/	106	CI.	18TR	м	2047
BSYDFP.ABARS.OUTPUT.D.G0001V00	SC0109			L DFHSMABR				2011/			18TR		5822
BSYDFP.ABARS.OUTPUT.I.G0001V00	SC0628			2 DFHSMABR				2011/			18TR		223
BSYDFP.ABARS.OUTPUT.I.G0001V00	SC1027			2 DFHSMABR	2012/267	124700	1999/365	2011/	195	SL	18TR	M	223
BSYDFP.ABARS.OUTPUT.O.G0001V00	SC0698			2 DFHSMABR				2011/			18TR		2975
BSYDFP.ABARS.OUTPUT.O.G0001V00	SC0109			2 DFHSMABR				2011/			18TR		1119
BSYDFP.ABARS.TEST.C.C01V0001	SC0343			L DFHSMABR				2011/			36TR		1375
BSYDFP.ABARS.TEST.D.C01V0001	SC0346			L DFHSMABR				2011/			36TR		3679
BSYDFP.ABARS.TEST.I.C01V0001	SC0372			L DFHSMABR				2011/			36TR		383
HBAC.DMP.BUILD.VBLD026.D95268.T221922	SC0899			L DFHSMZB				2011/			36TR		151488
HBAC.DMP.BUILD.VBLD026.D95275.T331722	SC1628				2011/275			2011/			36TR		621376
HBAC.DMP.BUILD.VBLD026.D95275.T331722	SC1636			L DFHSMZB	2011/275			2011/			36TR		179200
HBAC.DMP.BUILD.VBLD027.D95219.T354422	SC2043	1	- 1	L	2011/219	224512		2011/		SL		S	620288
HBAC.DMP.BUILD.VBLD027.D95247.T242722	SC2197 End		ort.		2011/247 tries liste	222756		2011/	247	SL	*	S	622400

Figure 98. Sample REPORT05 output: inventory of data sets including used kilobytes

REPORT06: inventory of volume serial numbers by location

REPORT06, as shown in <u>Figure 99 on page 99</u>, 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 and data set sequence 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. The old bin number 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 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.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S SCRATCH
M MASTER
U USER
I

INIT

Ε

ENTRY

DFSMSrmm Security heading text EDGRPT06					_			DATE -	2012	2/341	
Volume Serial Data Set Name	BIN Number	Creating Jobname	Vol- Seq	DSN- . Seq.	Create Date	Create Time	Expiration Date	Date stored	LBL	Rec. Fmt	√ S
\$C0502 SSC.VITALREC.BUILD.ESA51.G0053V00 \$C0513 SSC.VITALREC.BUILD.ESA51.G0053V00 \$C0514 SSC.VITALREC.BUILD.ESA5.G0053V00 \$C0515 SSC.VITALREC.BUILD.ESA5.G0053V00 \$C0515 SSC.VITALREC.BUILD.HVSSMP.G0053V00 \$C0515 SSC.VITALREC.BUILD.NVSSMP.G0053V00 \$C0515 SSC.VITALREC.BUILD.NVF.G0053V00 \$C0515 SSC.VITALREC.BUILD.NVF.G0053V00 \$C0521 SSC.VITALREC.BUILD.ESA51.G0053V00 \$C0522 SSC.VITALREC.BUILD.NSSMP.G0053V00 \$C0524 SSC.VITALREC.BUILD.NSSMP.G0053V00 \$C0524 SSC.VITALREC.BUILD.NSSMP.G0053V00	nd of Repo	VRESA51 VRESA51 VRESAS VRESAS VRMVSSMP VRNET VRESA51 VRMVSSMP VRESAS VRNET T. 10 E	1 2 2 1 2 3 3 1 3 1	1 1 1 1 1 1 1 1 1 1 1 1	2012/240 2012/240 2012/240 2012/240 2012/240 2012/240 2012/240 2012/240 2012/240 2012/240 2012/240	215435 220945 212810 211341 230650 094046 222620 224356 214454 090405	2011/295 2011/295 2011/295 2011/295 2011/295 2011/295 2011/295 2011/295 2011/295	2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277	SL SL SL SL SL SL SL SL SL	36TR 36TR	M M M M M M M M
DFSMSrmm Security heading text EDGRPT06	Inventory	of Volur	nes i	n Stora	age Locatio	n REMOTI		TTME	2012	2/341	
Volume Serial Data Set Name	BIN Number	Creating Jobname	Vol- Seq.	DSN- Seq.	Create Date	Create Time	Expiration Date	Date stored	LBL	Rec. Fmt	
SC1195 SCHLUM.RMMDEMO.MMOVE.VOL1 SC1196 SCHLUM.RMMDEMO.MMOVE.VOL4 68059C SCHLUM.TMS.DATA 68059C SCHLUM.TMS.DATA E	000050 000055 000002 000002 nd of Repo	RMMTEST4	1 1 1	1 1 1	2012/265 2012/265 2011/086 2011/086	093450 093439 153951	2011/100	2011/059 2011/059 2011/142	SL SL	18TR 18TR 18TR 18TR 18TR	M U

Figure 99. Sample REPORT06 output: inventory of volume serial numbers by location

REPORT07: inventory of data set names by location

REPORT07, as shown in Figure 100 on page 101, 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. The old bin number 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 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 data set expiration date. When the data set expiration date is higher than the volume expiration date, the volume expiration date is used instead of the data set expiration date. In this case, a flag "(*)" is set at the end of the row.

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

DFSMSrmm Security heading text EDGRPT07	Inventory o	Data Set	Names in	Storage Loc	ation DI	STANT	DATE -		1 2/341 38:55
Data Set Name	Volume BIN Serial Number			Create Date			Date		Rec. Fmt
SSC. VITALREC. BUILD. DB. G0055V00 SSC. VITALREC. BUILD. ESA. G0063V00 SSC. VITALREC. BUILD. ESA. G0053V00	SC2389 SC2388 SC2397 SC2034 SC2019 SC2001 SC2000 SC2011 SC0515 End of Repo:	2 1 3 1 4 1 5 1 1 1 2 1 3 1	VRDB VRDB VRDB VRDB VRESA VRESA VRESA VRESA VRESA VRESAS	2011/279 2011/279 2011/279 2011/158 2011/158 2011/158 2011/158 2011/158 2011/158 2012/240	192928 194622 200505 202356 203557 205047 210806	2011/295 2011/295 2011/295 2011/295 2011/295 2011/295 2011/295	2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277	SL SL SL SL SL SL SL	36TR 36TR 36TR 36TR 36TR 36TR 36TR 36TR
DESMSrmm Security heading text EDGRPT07	Inventory o			Ū			TIME -	2012	2/341
Data Set Name	Volume BIN Serial Number	Vol- DSN- Seq. Seq.	Creating Jobname	Create Date	Time	Expiration Date	stored		Rec. Fmt
SCHLU.RMM.CDS SCHLU.RMM.CDS SCHLUM.RMMDEMO.MMOVE.VOL1 SCHLUM.RMMDEMO.MMOVE.VOL4	68059C 000001 68059D 000002 SC1195 000050 SC1196 000055 End of Repo	1 1 1 1 1 1	RMMTEST1	2012/265	183342 153951 093450	2011/099 2011/100 2011/059	2011/142 2011/142 2011/059 2011/059	SL SL	18TR 18TR 18TR 18TR 18TR

Figure 100. Sample REPORT07 output: inventory of data set names by location

REPORTO8: inventory of bin numbers by location

REPORT08, as shown in <u>Figure 101 on page 102</u>, 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. The old bin number 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 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.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

EDGRPT08	Inventory of BIN numbers in Storage Location DISTANT	PAGE - DATE - TIME -	2012/341 22:38:55
BIN Number Data Set Name	Volume Vol- DSN- Creating Create Create Expiration Serial Seq. Seq. Jobname Date Time Date		
000005 SSC. VITALREC. SYSTEM. SS1101. G00611/00 000006 SSC. VITALREC. SYSTEM. SC1101. G0045V00 000007 SSC. VITALREC. SYSTEM. SP110A. G0045V00 000011 SSC. VITALREC. SYSTEM. SR1102. G0043V00 000012 SSC. VITALREC. SYSTEM. SR1102. G0043V00 000013 SSC. VITALREC. SYSTEM. SP110C. G0041V00 000041 SSC. VITALREC. SYSTEM. SP110B. G0044V00	SC2378 2 1 SS1100# 2011/279 225244 2011/294 SC1546 1 DSC1101# 2011/011 205040 2011/245 SC1548 1 DSP110A# 2011/011 205307 2011/245 SC0985 1 DSR1101# 2012/240 212232 2011/231 SC1918 1 DSR1101# 2012/240 211023 2011/231 SC0682 1 DSP110A# 2011/097 211026 2011/237 SC0682 1 DSP110A# 2012/240 210040 2011/238 End of Report. 7 Entries listed	2011/277 2011/220 2011/220 2011/206 2011/206 2011/193	SL 36TR M SL 36TR M SL 36TR M SL 36TR M SL 36TR M SL 36TR M SL 36TR M
DFSMSrmm Security heading text EDGRPT08 BIN	Inventory of BIN numbers in Storage Location REMOTE Volume Vol- DSN- Creating Create Create Expiration Serial Seq. Seq. Jobname Date Time Date	DATE -	2012/341
Number Data Set Name 000002 SCHLUM.TMS.DATA 000002 SCHLUM.TMS.DATA 000050 SCHLUM.RMMDEMO.MMOVE.VOL1 000055 SCHLUM.RMMDEMO.MMOVE.VOL4	Serial Seq. Seq. Johname Uate Ime Uate 68059C 1 1 2011/086 153951 2011/100 68059C 1 1 2011/086 153951 2011/100 SC1195 1 1 RMMTEST1 2012/265 093450 2011/059 SC1196 1 1 RMMTEST4 2012/265 093439 2011/059 End of Report. 4 Entries listed	2011/142 2011/142 2011/059	SL 18TR U SL 18TR U SL 18TR U SL 18TR M SL 18TR M

Figure 101. 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 102 on page 104, includes all volumes residing in a LOAN location. REORT09 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 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 data set expiration date. When the data set expiration date is higher than the volume expiration date, the volume expiration date is used instead of the data set expiration date. In this case, a flag "(*)" is set at the end of the row.

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

VR

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

Υ

The volume is retained as a vital record.

Ν

The volume is not retained as a vital record.

SMSrmm Security heading text EDGRPT09	Inv	ento	ry of	Data Set	Names in Lo	an Loca	ion KAYSER	1	AGE - DATE	-	2012/341
	Volume	Vol -	DCN-	Creating	Crosto	Crosto	Expiration		TIME		22:38:55 V V
Data Set Name				Jobname		Time		Ref. Date			
SP.\$2MAJO.\$SMP	SC2035	1	7	CUSTPACK	2011/158	111127	2011/179	2011/165	SL	*	M N
SP.\$2MAJO.BATCH	SC2035	1	8	CUSTPACK	2011/158	111148	2011/179	2011/165	SL	*	M N
SP.\$2MAJO.LIST3820	SC2035	1	9	CUSTPACK	2011/158	111206	2011/179	2011/165	SL	*	M N
SP.EFZ#LIBD.CLIST	SC2035	1	2	CUSTPACK	2011/158	111040	2011/179	2011/165	SL	*	M N
SP.EFZ#LIBD.CLIST.FB	SC2035	1	3	CUSTPACK	2011/158	111043		2011/165	SL	*	M N
SP.EFZ#LIBD.LOAD	SC2035	1	4	CUSTPACK	2011/158	111048	2011/179	2011/165	SL	*	M N
	SC2035	1		CUSTPACK				2011/165	ŠĹ		M N
SP.EFZ#LIBD.PANELS	SC2035	1	5	CUSTPACK	2011/158	111120	2011/179	2011/165	SL	*	M N
	SC2035	1						2011/165	ŠĹ		M N
SP.HENKELCS.SCRIPT	SC2035	1	10	CUSTPACK	2011/158	111211	2011/179	2011/165	SL	*	M N
		of Re	eport.		ries listed		. ,	. ,			

Figure 102. 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 103 on page 105, 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 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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

VR

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

Υ

The volume is retained as a vital record.

Ν

The volume is not retained as a vital record.

FSMSrmm Security heading text EDGRPT10	Inv	entory	of Volume	es in Loan	Locatio	n KAYSER		DATE	-	1 2012/341 22:38:55	
Volume Serial Data Set Name	Vol-	DSN-	Creating	Create	Create	Expiration	Volume				
Serial Data Set Name	Seq.	Seq.	Jobname	Date	lime	Date	Rei. Dat	e rri	. FMT	S R	
SC2035 SSC.HENKEL.CNTL	1	1	CUSTPACK	2011/158		2011/179	2011/165			M N	
SC2035 SP.EFZ#LIBD.CLIST	1			2011/158			2011/165			M N	
SC2035 SP.EFZ#LIBD.CLIST.FB	1			2011/158			2011/165			M N	
SC2035 SP.EFZ#LIBD.LOAD	1			2011/158			2011/165		*	M N	
SC2035 SP.EFZ#LIBD.PANELS	1			2011/158			2011/165			M N	
SC2035 SP.EFZ#LIBD.MSGS	1			2011/158			2011/165			M N	
SC2035 SP.\$2MAJO.\$SMP SC2035 SP.\$2MAJO.BATCH	1			2011/158 2011/158			2011/165 2011/165			M N M N	
SC2035 SP.\$2MAJO.LIST3820	1			2011/158			2011/165			M N	
SC2035 SP.HENKELCS.SCRIPT	1			2011/158			2011/165		*	M N	
SC2035 SP.HENKELCS.LIST3820	1			2011/158	111214	2011/179	2011/165		*	M N	
SC2035 SP.HENKELST.SCRIPT	1			2011/158			2011/165		*	M N	
SC2035 SP.HENKELST.LIST3820	1			2011/158			2011/165			M N	
SC2035 SSC. HENKEL. CNTL SC2035 SP. EFZ#LIBD. CLIST SC2035 SP. EFZ#LIBD. CLIST FB SC2035 SP. EFZ#LIBD. LOST FB SC2035 SP. EFZ#LIBD. LOAD SC2035 SP. EFZ#LIBD. HOAD SC2035 SP. EFZ#LIBD. HSGS SC2035 SP. EFZ#LIBD. MSGS SC2035 SP. SZANAJO. SATPH SC2035 SP. SZANAJO. BATCH SC2035 SP. SZANAJO. BATCH SC2035 SP. SZANAJO. BATCH SC2035 SP. SZANAJO. LIST3820 SC2035 SP. HENKELCS. SCRIPT SC2035 SP. HENKELST SCRIPT	1			2011/158 2011/158			2011/165 2011/165			M N M N	
Fnd	of R			ries listed		2011/1/9	2011/100	3L	^	I'I IV	

Figure 103. Sample REPORT10 output: list all volume serial numbers that reside in a loan location

REPORT11: list multivolume and multifile sets

REPORT11, as shown in <u>Figure 104 on page 106</u>, 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-Sea.

The volume sequence number. Flag "<" will be set behind the volume sequence number, when there is a chain error.

Vol-Cnt.

The volume count. Flag "<" will be set behind the volume count when the last volume sequence number in the chain is less than 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.

Data Set Name

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

Expiration Date

The data set expiration date. When the data set expiration date is higher than the volume expiration date, the volume expiration date is used instead of the data set expiration date. In this case, a flag "(*)" is set at the end of the row.

First Volser

The volume serial number of the first volume in a multivolume data set. Always use the first volume serial number of a chain and set a flag "?" if the volume with the volume sequence number 1 is no longer available.

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 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 EDGRPT11		curity	heading text		Multi-Volume/	/Multi-D	ata Set	Report		PAGE - DATE - TIME -	2011/341 22:38:55	
Volume V Serial S			l- ι. Data Set Name		Expiration Date	First Volser	Prev. Volser	Next Volser	Create Userid	Creating Jobname		Create Time
A06600	1	5	1 DSN1		2011/328	A06600		A06601	RMMUSER	RMMUSERJ	2011/323	070615
A06601	2	5	1 DSN1	Used kilobytes for volume Used kilobytes for volume	2011/328	A06600	0 A06600 0	A06602	RMMUSER	RMMUSERJ	2011/323	070615
• • •												
A06603	4<	5	1 DSN1		2011/328	A06603			RMMUSER	RMMUSERJ		070615
A06603	4	5 5	2 DSN2 3 DSN3		2011/328	A06603			RMMUSER	RMMUSERJ		070615
A06603	4	5	3 DSN3		2011/328	A06603		A06604	RMMUSER	RMMUSERJ	2011/323	070615
A06611	1	2	1 RMMTST.FILE01		2011/323	A06611		106612	RMMUSER	RMMUSERJ	2011/222	070822 (*)
A06611	1	2	2 RMMTST.FILE02		2011/323	A06611			RMMUSER	RMMUSERJ		070822 (*)
A06611	1	2	3 RMMTST.FILE03		2011/323	A06611			RMMUSER	RMMUSERJ		070822 (*)
A06611	ī	2	4 RMMTST.FILE04		2011/323	A06611			RMMUSER	RMMUSERJ		070822 (*)
A06611	1 1 1	2	5 RMMTST.FILE05	Used kilobytes for volume	2011/323	A06611		A06612	RMMUSER	RMMUSERJ	2011/323	070822 (*)
A06612	2	2	5 RMMTST.FILE05	ŕ	2015/330	A06611	A06611		RMMUSER	RMMUSERJ	2011/323	070822
-		3 E	Broken multi volume	Used kilobytes for volume chain(s), marked with < on	column Vol-Se	eq.						
-		Θ	Missing last volu	me in chain, marked with <	on colunm Vol-	Cnt.						
-		1 M	issing first volum	e in chain, marked with ? o End of Report.								

Figure 104. Sample REPORT11 output: list all multivolume and multifile sets

REPORT12: movement report by data set name

REPORT12, as shown in <u>Figure 105 on page 108</u>, includes all volumes moving among the three built-in storage locations or installation-defined storage locations. REPORT12 is sorted by destination, 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. The old bin number 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 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 data set expiration date. When the data set expiration date is higher than the volume expiration date, the volume expiration date is used instead of the data set expiration date. In this case, a flag "(*)" is set at the end of the row.

Date stored

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

LBL

The tape label typewhich 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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

٧S

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

FSMSrmm IBM internal use only EDGRPT12		from	Movem locat	ent re ion SH	eport by D HELF to	ata Set Nam location D	es ISTANT		PAGE - DATE -	201	2/341
Data Set Name	Serial	Number	Seq.	DSN- Seq.	Creating Jobname	Create Date	Create Time	Expiration Date	Date stored	LBL	Rec. Fmt
SSC. VITALREC. BUILD. DB. G0056V00 SSC. VITALREC. BUILD. ESA. G0054V00 SSC. VITALREC. BUILD. ESAS. G0054V00	SC1235 SC1227 SC1212 SC1211 SC1326 SC1273 SC1808 SC1807 SC1278 SC1278 SC1282 SC1280	000071 000070 000069 000068 000083 000072 000107 000106 000073 000075 000074	1 2 3 4 5 1 2 3 3 1 2		VRDB VRDB VRDB VRDB	2012/328 2012/328 2012/328 2012/328 2012/339 2012/328 2011/097 2011/097 2012/328 2012/328 2012/328	190728 192741 194337 200213 202009 203240 204650 210317 210910 212311	2011/302 2011/302 2011/302 2011/302 2011/302 2011/302 2011/302 2011/302	2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277	SL SL SL SL SL SL SL SL SL SL	36TR 36TR 36TR 36TR 36TR 36TR 36TR 36TR
FSMSrmm IBM internal use only EDGRPT12		from	Movem locat	ent re	port by D	ata Set Nam location S	es HELF		PAGE - DATE - TIME -	201	3 2/341 38:55
Data Set Name	Volume Serial	BIN Number	Vol- Seq.	DSN- Seq.	Creating Jobname	Create Date	Create Time	Expiration Date	Date stored	LBL	Rec. Fmt
SSC. VITALREC. BUILD. DB. G0055V00 SSC. VITALREC. BUILD. ESA. G0053V00 SSC. VITALREC. BUILD. ESAS. G0053V00 SSC. VITALREC. BUILD. ESAS. G0053V00	SC2389 SC2388 SC2397 SC2034 SC2019 SC2001 SC2000 SC2011 SC0515 SC0514	000058* 000055* 000059* 000054* 000053* 000050* 000049* 0000052*	1 2 3 4 5 1 2 3		VRDB VRDB VRDB VRDB VRDB VRESA VRESA VRESA VRESAS VRESAS	2011/279 2011/279 2011/279 2011/158 2011/158 2011/158 2011/158 2011/158 2012/240 2012/240	190825 192928 194622 200505 202356 203557 205047 210806 211341	2011/295 2011/295 2011/295 2011/295 2011/295 2011/295 2011/295 2011/295 2011/295	2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277 2011/277	SL SL SL SL SL SL SL SL SL	36TR 36TR 36TR 36TR 36TR 36TR 36TR 36TR

Figure 105. Sample REPORT12 output: movement Report including the first data set name

REPORT13: movement report by bin number

REPORT13, as shown in <u>Figure 106 on page 109</u>, includes data set information. REPORT13 is sorted by destination, location, and 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. The old bin number 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 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.

I RI

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

SL

Specifies an IBM standard label.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

VS

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

FSMS:mm IBM INTERNAL USE ONLY EDGRPT13	fro	n loc	ation	DISTANT	to location	ATL3494	1E		2012	1 2/341 38:55
BIN Number Data Set Name	Volume Serial	Vol- Seq.	DSN- Seq.	Creating Jobname	Create Date	Create Time	Expiration Date	Date stored	LBL	Rec. Fmt
000001* SSC.VITALREC.BUILD.PP.G0180V00	017032	1	. 1	VRPP VRNET VRDB	20/02/2012	132015	25/02/2012	03/03/2012	SL	128T
000002* SSC.VITALREC.BUILD.NET.G0179V00	Q17057	1	. 1	VRNET			25/02/2012			
000003* SSC.VITALREC.BUILD.DB.G0187V00	Q17085	1	. 1	. VRDB	20/02/2012	130340	25/02/2012	03/03/2012	SL	128T
000004* SSC.VITALREC.MASTER.JCL.G0174V00	Q17136	1	. 1	. VRMASTER			26/02/2012			
000005* SSC.VITALREC.BUILD.WWC150.G0056V00	Q17138						25/02/2012			
000007* SSC.VITALREC.BUILD.WWZ38#.G0055V00	Q17139						25/02/2012			
000008* SSC.VITALREC.BUILD.WWZ038.G0058V00	Q17140						25/02/2012			
000009* SSC.VITALREC.BUILD.W3897A.G0031V00	Q17143						25/02/2012			128T
000012* SSC.VITALREC.BUILD.W3897A.G0031V00	Q17144						26/02/2012			
000017* SSC.VITALREC.BUILD.MVSSMP.G0178V00	Q17145						25/02/2012			128T
000019* SSC.VITALREC.BUILD.WWP004.G0056V00	Q17146						25/02/2012			
000020* SSC.VITALREC.BUILD.WWP115.G0056V00	Q17147						25/02/2012			
000021* SSC.VITALREC.BUILD.W3897B.G0006V00	Q17148						26/02/2012			
000022* SSC.VITALREC.FILTER.SELECT.G0174V00	Q17149	1	. 1	VRSELECT	21/02/2012	022/38	26/02/2012	03/03/2012	SL	1281

Figure 106. Sample REPORT13 output: movement Report including the first data set name sorted by bin number

REPORT14: movement report by volume serial number

REPORT14, as shown in Figure 107 on page 111, includes data sets. REPORT14 is sorted by destinaion, location, and 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. The old bin number 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 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.

ΑL

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

٧S

The volume status which can be one of the following:

S

SCRATCH

М

MASTER

U

USER

Ι

INIT

Ε

ENTRY

		1 100	ation	DISTANT	to location	A1L3494	4E	DATE - TTMF -		2/341 38:55
Volume							Expiration	Date		Rec.
Serial Data Set Name	Number	Seq.	Seq.	Jobname	Date	Time	Date	stored	LBL	Fmt
017032 SSC.VITALREC.BUILD.PP.G0180V00	000001*	1	1	L VRPP	20/02/2012	132015	25/02/2012	03/03/2012	SL	128T
Q17057 SSC.VITALREC.BUILD.NET.G0179V00	000002*	1	1	L VRNET			25/02/2012			
Q17085 SSC.VITALREC.BUILD.DB.G0187V00	000003*						25/02/2012			
Q17136 SSC.VITALREC.MASTER.JCL.G0174V00	000004* 000005*	1					26/02/2012 25/02/2012			
Q17138 SSC.VITALREC.BUILD.WWC150.G0056V00 017139 SSC.VITALREC.BUILD.WWZ38#.G0055V00	000005*	1					25/02/2012			
017140 SSC.VITALREC.BUILD.WWZ038.G0058V00	000007*	1					25/02/2012			
017143 SSC.VITALREC.BUILD.W3897A.G0031V00	000009*	1					25/02/2012			
Q17144 SSC.VITALREC.BUILD.W3897A.G0031V00	000012*	2					26/02/2012			
Q17145 SSC.VITALREC.BUILD.MVSSMP.G0178V00	000017*	1					25/02/2012			
Q17146 SSC.VITALREC.BUILD.WWP004.G0056V00	000019*	1					25/02/2012			
Q17147 SSC.VITALREC.BUILD.WWP115.G0056V00	000020*	1					25/02/2012			
Q17148 SSC.VITALREC.BUILD.W3897B.G0006V00 Q17149 SSC.VITALREC.FILTER.SELECT.G0174V00	000021* 000022*	1					26/02/2012 26/02/2012			

Figure 107. 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 <u>Figure 108 on page 112</u>, 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 and data set sequence 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. The old bin number is displayed when no current bin number is set for the volume.

DFSMSrmm INTERNAL USE ONLY EDGRPT15	Inventory List	by Volume Seria	l Number incl. Volume count		1 012/205 06:37:13
Volume Serial Data Set Name	Vol- Vol- Seq. Cnt		Create Vol Location BIN Time Scr Name Number	IINE - 6	0.37.13
A00001 D027182.DSN1 A00001 OWRTST.LAGER	1 10 1 10		063628 NO MAINZ * 063628 NO MAINZ *		
A00002 OWRTST.LAGER A00003 OWRTST.LAGER	2 10 3 10	1 2012/205	063628 NO MAINZ * 063629 NO MAINZ *		
A00004 RMMTST.EXTRACT.FILE A00004 RMMTST.REPORT.FILE A00004 RMMTST.ACTIVITI.FILE	4 10 4 10 4 10	2 2012/205	063629 NO MAINZ * 063629 NO MAINZ * 063629 NO MAINZ *		
A00005 RMMTST.JOURNAL.BACKUP A00006 SYS1.PARMLIB	5 10 6 10	1 2012/205 1 2012/205	063629 NO MAINZ * 063629 NO MAINZ *		
A00007 SYS1.PARMLIB A00007 SYS1.PROCLIB A00008 SYS1.MASTER.JCL	7 10 7 10 8 10	2 2012/205	063630 NO MAINZ * 063630 NO MAINZ * 063630 NO MAINZ *		
A00009 SYS1.MASTER.JCL A00010 SYS1.DFSMS.JCL	9 16 10 16	1 2012/205 1 2012/205	063630 NO MAINZ * 063630 NO MAINZ *		
P00001 D027182.PRIVAT.TESTDSN P00002 D027182.PRIVAT.TESTJCL	1	1 2012/205 1 2012/205	063631 NO * 063631 NO *		
P00003 D027182.PRIVAT.EXEC	End of Report	1 2012/205 . 17 Entries 1	063631 NO *		

Figure 108. Sample REPORT15 output: inventory list of volumes including the volume count

REPORT16: list all duplicate volume serial numbers

REPORT16, as shown in Figure 109 on page 113, includes all duplicate volume serial numbers. The report is sorted by the VOL1 number and then by volume serial number.

The data columns for REPORT16 are:

Volume VOL1

The VOL1 label. These are volumes that are defined to DFSMSrmm with a unique external volume serial number and a VOL1 label that might duplicate another volume but that does not match its own external volume serial number.

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 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 written to tape.

Expiration Date

The date that the volume should be considered available for release.

Volume Ref. Date

The date that information on the volume was last read or last written.

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, 384T, EFM1, EFM2, EEF2, EEF3, or *.

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:

Υ

The volume is retained as a vital record.

Ν

The volume is not retained as a vital record.

DFSM EDGR	Srmm INTERNAL USE ONLY PT16	I	vento	ry of Dupli	cate Volume	s		PAGE - DATE - TTMF -		/05/2 03:51	
Volu VOL1	me Volume Serial Data Set Name	Vo Se	- DSN . Seq	- Creating . Jobname	Create Date		Expiration Date			Rec	. v
A064	12 D06412 RMMUSER.TAPE12 77 D06414 RMMUSER.TAPE77 88 D06410 RMMUSER.TAPE88	End of Report	1 1 1 3	1 RMMUSERJ	13/05/2012 13/05/2012	034523	18/05/2012 18/05/2012 18/05/2012	13/05/201	2 SL	18T	R U

Figure 109. Sample REPORT16 output: list all duplicate volume serial numbers

REPORT17: inventory of stacked volumes by percent active

REPORT17, as shown in Figure 110 on page 114, includes an inventory of stacked volumes by percent active. The report presents the stacked volumes in order of increasing percentage of active number of volumes and percentage used. The least used stacked volumes are listed first.

The data columns for REPORT17 are:

Volume Serial

The volume serial number of the stacked volume.

% Act

Percentage of the contained logical volumes that are active.

Active

The number of active logical volumes. Active logical volumes are all those that are neither scratch nor pending release.

Logical

The number of contained logical volumes.

% Use

The approximate percentage of active data.

Capacity

The size of the stacked volume in MB.

Media Type

The physical media type of the volume.

Retention Date

When VRS retained this volume is the VRS calculated retention date. Otherwise, it is the latest expiration date of all contained active volumes.

VR

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

Υ

The volume is retained as a vital record.

Ν

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.

Store Date

The date when the volume was stored.

Export Date

The date when the stacked volume was exported from a VTS.

Export Time

The time when the stacked volumes was exported from a VTS.

Home Location

The volume's home location.

DFSMSrmm I EDGRPT17	NTERNAL U	SE (ONLY		Inv	entory of	Stacked Vo	Lum	nes by Pe	rcent Active	e		PAGE - DATE - TIME -	1 2012/341 03:51:09
Volume % Serial Act			# Logical	% Use	Capacity	Media Type	Retention Date		Location Name	Store Date	Export Date	Export Time		03:51:09
SC0502 50	5	43	99993	35		CART d of Repo	2012/240 rt. 1 Ent		VAULT es listed	2011/295	2011/277	123441	VTS1	

Figure 110. Sample REPORT17 output: inventory of stacked volumes by percent active

REPORT18: inventory of data sets by volume retention method

REPORT18, as shown in Figure 111 on page 115, includes data sets and volumes other than those that are scratch. REPORT18 is split by retention method and sorted by data set name, create date, and create time.

The data columns for REPORT18 are:

Data Set Name

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

Volume Serial

The volume serial number of 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 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 written to tape.

Volume Exp. Date

Volume EXPDT. The date the volume should be considered for release.

DSN Exp. Date

Data set EXPDT. This may be different than the volume EXPDT.

VX

Excluded from VRSEL which can be one of the following:

γ

The data set record is excluded from VRSEL processing.

Ν

The data set record is included in VRSEL processing.

EXPDT Set by

This field identifies the event that caused the expiration date to be set or changed.

Volume Ret. Date

Volume retention date. When VRS retained this is the highest VRS calculated retention date of all data sets on the volume, otherwise it is the date the volume was removed from VRS control.

DSN Ret. Date

Data set retention date.

DEST

The destination, the target storage location of the volume.

VR

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

Υ

The volume is retained as a vital record.

Ν

The volume is not retained as a vital record.

DFSMSImm INTERNAL USE ONLY EDGRPT18	Inventory of Data Set Names by Volume Retention Method EXPDT PAGE - 1 DATE - 2012/129 TIME - 08:11:53 Volume Vol- DSN- Creating Create
SMMUSER, D16002 RMMUSER, D16002 RMMUSER, D16004 RMMUSER, D16004. DS1 RMMUSER, D16004. DS2	A16092 1 1 2012/123 081146 2012/133 2012/128 Y CMD DEF A16093 2 1 2012/129 081147 2012/135 2012/135 Y CMD A16094 3 1 BERNDS 2012/129 081147 2012/134 2012/135 Y CMD A16094 3 2 BERNDS 2012/129 081147 2012/134 2012/134 Y CMD End of Report. 4 Entries listed
DFSMSxmm INTERNAL USE ONLY EDGRPT18	Inventory of Data Set Names by Volume Retention Method VRSEL PAGE - 2 DATE - 2012/129 TIME - 08:11:53 Volume Vol- DSN- Creating Create Create Volume DSN V V Serial Seq. Seq. Johname Date Time Ret. Date Ret. Date X R

Figure 111. Sample REPORT18 output: inventory of data sets by volume retention method

Chapter 6. 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 using ICETOOL, to produce sample reports.

If you are not familiar with DFSORT and ICETOOL, or just want to learn more about them, visit the <u>DFSORT</u> Home Page (www.ibm.com/storage/dfsort).

The DFSORT home page has papers and examples you can browse, links to the online DFSORT documents, tips, and more. You can browse or download an ICETOOL mini-user guide, learn about the major features of DFSORT, see answers to frequently asked questions, and so on.

Related reading: For a tutorial on using DFSORT and ICETOOL, see <u>z/OS DFSORT: Getting Started</u>. For complete details about DFSORT and DFSORT's ICETOOL, see <u>z/OS DFSORT Application Programming</u> *Guide*. You can access both of these documents 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 Time Sharing Option (TSO) and have your system automatically generate a job card for you. If a job card is not automatically generated, provide a job card by replacing the commented job card with one that is 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 information, data set information, and the DFSORT installation defaults that are 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

<u>Figure 112 on page 119</u> shows the sample JCL for processing SMF records. The sample uses this 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 this information which is taken from the SMF record header:

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

The ICETOOL JCL example in Figure 112 on page 119 performs these functions:

- 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.

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 121 for more information about using symbols.

```
//STEP1 EXEC PGM=ICETOOL
//TOOLMSG DD SYSOUT=* I
                                 ICETOOL MESSAGES
 //DFSMSG
               DD SYSOUT=*
                                 DFSORT MESSAGES
               DD DSN=ACCT.SJFEMVSA.D921102.T230004, DISP=SHR
 //RAWSMF
               DD DSN=&&TEMPV, REFDD=*.RAWSMF
 //RMMV
 //VREPT DD SYSOUT=*
                                 CONTROL STATEMENTS
 //TOOLIN
              DD *
 * 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)
 /*
Figure 112. Sample ICETOOL JCL for processing SMF records
```

See Figure 118 on page 125 for the equivalent sample JCL using DFSORT symbols.

Figure 113 on page 119 shows sample report output for the SMF audit report.

97307			ACT C	VOLUME ND0335	CREATE	LASTCH	LASTUSER	LASTSYS
		HOLLYYAM	C	ND0335				
		HOLLYYAM	С	ND0335				
97307	MVSA				1997058	1997307	TAPELIB	MVSA
	1100/1	YAEGER	С	ND0336	1997058	1997307	TAPELIB	MVSA
97307	MVSA	WILLITS	С	ND0339	1997058	1997307	TAPELIB	MVSA
97307	MVSA	YAEGER	С	ND0338	1997035	1997307	TAPELIB	MVSA
97307	MVSA	JMB01	С	NB1876	1996271	1997307	TAPELIB	MVSA

Figure 113. Sample DISPLAY Report (VREPT DD)

Producing commands and reports from the extract data set

This example shows two tasks that 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 227, are used to perform these functions:

- Create RMM CHANGEVOLUME subcommands to set a release action of REPLACE for all tapes with temporary input/output (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 114 on page 120 performs these functions:

- 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.

You must add 5 to an extract field offset shown in Appendix B, "DFSMSrmm mapping macros," on page 227 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 121 for more information about using symbols.

```
EXEC PGM=ICETOOL
G DD SYSOUT=*
  //STEP1
   //TOOLMSG
   //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 114. Sample ICETOOL JCL for processing extract records
```

Figure 115 on page 120 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 CD0001 RLSE(REPLACE)
RMM CV CD0011 RLSE(REPLACE)
RMM CV CD0015 RLSE(REPLACE)
```

Figure 116 on page 121 shows sample report output.

Figure 116. 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 provide the positions, lengths, and formats of the fields and the values of the constants associated with 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 that are associated with DFSMSrmm. You can obtain these IBM-created materials as described in Appendix A, "DFSORT symbols for use with DFSMSrmm," on page 161. Then you can substitute the symbols for the DFSMSrmm fields you need into ICETOOL and DFSORT jobs.

This topic provides an overview of how DFSORT symbols work in general, as well as a specific example of their use for DFSMSrmm reporting.

Related reading: For additional information on DFSORT symbols, see *z/OS DFSORT Application Programming Guide* and *z/OS DFSORT: Getting Started*.

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, follow these steps:

- 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 123. 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 that 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 117 on page 122 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 117. Symbol data set (ACCOUNTS.SYMBOL)

SYMNAMES and SYMNOUT DD statements

To use symbol processing in your DFSORT or ICETOOL jobs, 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)
```

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. xcan be H for halfword alignment, F for fullword alignment or D for doubleword alignment.

Symbols in DFSORT statements

You can use symbols in these 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 these 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 118 on page 125 shows a version of the same sample job that was shown in Figure 112 on page 119. However, this example uses the DFSORT symbols found in the EDGSMFSY symbol mapping that is described in Appendix A, "DFSORT symbols for use with DFSMSrmm," on page 161.

```
//STEP1 EXEC PGM=ICETOOL
//SYMNAMES DD DISP=SHR, DSN=SYS1.MACLIB(EDGSMFSY)
                                                                            SYMBOLS
//TOOLMSG DD SYSOUT=* ICETOOL MESSAĞES
//DFSMSG DD SYSOUT=* DFSORT MESSAGES
               DD DSN=ACCT.SJFEMVSA.D921102.T230004, DISP=SHR
//RAWSMF
//RMMV
                DD DSN=&&TEMPV, REFDD=*.RAWSMF, SPACE=(TRK, (75,30))
//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')
HEADER('CREATE')
HEADER('LASTCH')
                                   ON(MVVOLSER)
                                   ON (MVCRDATE)
                                   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 118. Sample ICETOOL JCL for processing SMF records using symbols

Chapter 7. Using DFSMSrmm-supplied sample reports

DFSMSrmm provides sample jobs that 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 6, "Using DFSMSrmm with DFSORT," on page 117 for information about using DFSORT and DFSORT's ICETOOL.

You use the DFSMSrmm extract data set as input to many of the sample reports. See the <u>z/OS DFSMSrmm</u> <u>Implementation and Customization Guide</u> for information about creating the extract data set as part of DFSMSrmm inventory management processing. See <u>"Using the extract data set" on page 50</u> for information about using the extract data set.

Table 10 on page 127 shows the DFSMSrmm-supplied reports you can use. DFSMSrmm ships the sample JCL to produce the reports in SYS1.SAMPLIB.

Table 10. DFSMSrmm-Supplied reports

Report	Description
EDGJAUDM	Use EDGJAUDM to create 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,
EDGJCEXP	Use EDGJCEXP to list data sets and volumes that are copy exported.
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.

Table 10. DFSMSrmm-Supplied reports (continued)

Report	Description
EDGJVOL	Use EDGJVOL to create a report of volumes sorted by volume serial number.

See "Using DFSORT's ICETOOL" on page 117 for information about customizing the sample jobs.

Creating monthly archives from weekly audit reports

EDGJAUDM produces audit data that is sorted by volume and then by 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 "Creating weekly archives from daily audit reports" on page 129 for information about the EDGJAUDW sample report. Audit data is not saved more than one year.

The sample produces an archive rather than a report which means that the report contains data but 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 that are sorted by volumes.
- SORTOUT DD CARD, which contains monthly audit reports that are sorted by rack number.
- SORTOUT DD CARD, which contains monthly audit reports that are sorted by user ID.

EDGJAUDM customization

Use the following information to customize the EDGJAUDM sample job:

VSORT SORTIN

Change the data set names specified on the DSN keywords to those that are used on your system. The sample JCL assumes that 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. Customize the SORT statement to sort the records by other than volume, date, and time.

The INCLUDE statement is specifically set to process the reports as produced by the sample EDGJAUDW job. If you changed the format or headings on the reports, 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 119 on page 129, Figure 120 on page 129, and Figure 121 on page 129.

Figure 119 on page 129 is an audit report that is sorted by volume. The column layout is the same as the layout of the corresponding weekly report, as shown in "Creating weekly archives from daily audit reports" on page 129.

```
111001 111001 RDRHSME UPDATE BJK 26/11/2012 01:00:32 E4E4 19/11/2012 U VITAL REMOTE 111002 111002 RDRHSME UPDATE DENZEL 26/11/2012 01:00:32 E4E4 19/11/2012 U VITAL REMOTE 111004 RDRDPCA UPDATE GILLPAT 26/11/2012 01:00:32 E4E4 19/11/2012 U VITAL SHELF 111004 RDRDPCA UPDATE GILLPAT 26/11/2012 01:00:33 E4E4 18/11/2012 U VITAL SHELF 111009 RDRHSME UPDATE PENDLTN 26/11/2012 01:00:33 E4E4 06/12/2012 U VITAL SHELF 111009 RDRHSME UPDATE PENDLTN 26/11/2012 01:00:33 E4E4 19/11/2012 U VITAL SHELF 111015 RDRDPCA UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 19/11/2012 U VITAL SHELF 111015 RDRHSME UPDATE STCHSM 26/11/2012 01:00:33 E4E4 29/08/2012 U VITAL SHELF 111015 RDRHSME UPDATE STCHSM 26/11/2012 01:00:33 E4E4 29/08/2012 U VITAL SHELF 111015 RDRHSME UPDATE TAUBER 26/11/2012 01:00:33 E4E4 29/08/2012 U VITAL SHELF 111015 RDRHSME UPDATE TAUBER 26/11/2012 01:00:33 E4E4 29/08/2012 U VITAL SHELF 111015 RDRHSME UPDATE TAUBER 26/11/2012 01:00:33 E4E4 29/08/2012 U VITAL SHELF 111015 RDRHSME UPDATE TAUBER 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111015 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL SHELF 111012 RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL RDRPCPCA UPDATE WRIGHT 26/11/2012 01:00:34 E4E4 25/08/2012 U VITAL RDRPCP
```

Figure 119. EDGJAUDM: Sample list of a monthly audit Report sorted by volume

<u>Figure 120 on page 129</u> is an audit report that is sorted by rack number. The column layout is the same as the layout of the corresponding weekly report as shown in <u>"Creating weekly archives from daily audit reports"</u> on page 129.

```
BJK
ZOUNEK
DENZEL
                                                                                                                                  26/11/2012 01:00:32 E4E4
26/11/2012 01:00:34 E4E4
26/11/2012 01:00:44 E4E4
                                                                                                                                                                                                        19/11/2012 U
25/06/2012 U
26/11/2012 U
                                                                                                                                                                                                                                                                          REMOTE
REMOTE
REMOTE
000001
000002
000003
                      111019
111137
                                              RDROPCA
RDRHSME
                                                                          UPDATE
UPDATE
                                                                                                      PALMER
TAUBER
WRIGHT
                                                                                                                                  26/11/2012 01:00:34 E4E4
26/11/2012 01:00:35 E4E4
26/11/2012 01:00:35 E4E4
000004
                      111021
                                              RDROPCA
                                                                          UPDATE
                                                                                                                                                                                                        25/06/2012 U
                                                                                                                                                                                                                                                                          REMOTE
                      111023
111036
                                              RDROPCA
                                              RDROPCA
                                                                                                       RDRHSME
WHEELER
                                                                                                                                                                                                         25/06/2012
25/06/2012
                                                                                                                                                                                                                                                                           REMOTE REMOTE
                                                                                                      PENDLTN
GILLPAT
STCHSM
STCHSM
                                             RDROPCA
RDROPCA
RDRHSME
RDRHSME
                                                                          UPDATE
UPDATE
UPDATE
UPDATE
                                                                                                                                  26/11/2012 01:00:36 E4E4
26/11/2012 01:00:37 E4E4
26/11/2012 01:00:44 E4E4
26/11/2012 01:00:44 E4E4
                                                                                                                                                                                                        25/06/2012 U
25/06/2012 U
26/11/2012 U
26/11/2012 U
                      111051
111066
                                                                                                                                                                                                                                                                          REMOTE
```

Figure 120. EDGJAUDM: Sample list of a monthly audit Report sorted by rack number

Figure 121 on page 129 is an audit report that is sorted by user ID. The column layout is the same as the layout of the corresponding weekly report as shown in "Creating weekly archives from daily audit reports" on page 129.

```
BJK 111001 111001 UPDATE RDRHSME 26/11/2012 01:00:32 E4E4 19/11/2012 U VITAL REMOTE DENZEL 111002 111002 UPDATE RDRHSME 26/11/2012 01:00:32 E4E4 19/11/2012 U VITAL REMOTE GILLPAT 111004 111004 UPDATE RDRPOROCA 26/11/2012 01:00:32 E4E4 19/11/2012 U VITAL SHELF PALMER 111008 111008 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 18/11/2012 U VITAL SHELF PENDLTH 111009 111009 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 06/12/2012 U VITAL SHELF RDRHSME 111015 111015 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 19/11/2012 U VITAL REMOTE RDRHSME 111015 111015 UPDATE RDRPSME 26/11/2012 01:00:33 E4E4 19/11/2012 U VITAL SHELF STCHSM 111016 111016 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 21/05/2012 U VITAL SHELF STCHSM 111017 111017 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 21/05/2012 U VITAL SHELF STCHSM 111018 111018 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 30/11/2012 U VITAL SHELF STCHSM 111018 111018 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 30/11/2012 U VITAL SHELF STCHSM 111019 111019 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 22/106/2012 U VITAL SHELF STCHSM 111018 111018 UPDATE RDRHSME 26/11/2012 01:00:33 E4E4 22/106/2012 U VITAL SHELF STCHSM 111019 111019 UPDATE RDRHSME 26/11/2012 01:00:34 E4E4 26/106/2012 U VITAL SHELF STCHSM 111019 111019 UPDATE RDRHSME 26/11/2012 01:00:34 E4E4 42/106/2012 U VITAL SHELF STCHSM 111018 111018 UPDATE RDRHSME 26/11/2012 01:00:34 E4E4 42/106/2012 U VITAL REMOTE STCHSME 26/11/2012 01:00:34 E4E4 42/06/2012 U VITAL SHELF STCHSME 26/11/2012 0
```

Figure 121. EDGJAUDM: Sample list of a monthly audit Report sorted by user ID

Creating 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 77 for information about the DFSMSrmm EDGAUD report utility. Audit data is sorted by volume and then by 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 that are sorted by volumes.
- RREPT DD CARD, which contains weekly audit records that are sorted by rack number.
- UREPT DD CARD, which contains weekly audit records that are 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. You must also use the data set name in the EDGJAUDM job if you are 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. You must also use the data set name in the EDGJAUDM job if you are 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. You must also use the data set name in the EDGJAUDM job if you are using EDGJAUDM.

EDGJAUDW examples

See the reports that you can produce using the EDGJAUDW sample JCL in Figure 122 on page 130, Figure 123 on page 131, and Figure 124 on page 132.

<u>Figure 122 on page 130</u> is sorted by volume serial number and date. The sample report includes all SMF audit records for the week.

DFSMSrmm - Volu	me Audit Re	port Consol	idation	11/27/12	17:56:	44 - 1 -		
VOLUME RACK-#	OWNER	ACTIVITY	USERID	DATE TI	ME SYS	EXP-DATE SEC	STATUS LOCATION	LOAN-LOC
111001 111001	RDRHSME	UPDATE	ВЈК	26/11/2012 01:0		19/11/2012 U	VITAL REMOTE	
111002 111002 111004 111004	RDRHSME RDROPCA	UPDATE UPDATE	DENZEL GILLPAT	26/11/2012 01:0 26/11/2012 01:0	0:32 E4E4	19/11/2012 U 18/11/2012 U	VITAL REMOTE VITAL SHELF	
111008 111008 111009 111009	RDRHSME RDRHSME	UPDATE UPDATE	MOREY PALMER	26/11/2012 01:0 26/11/2012 01:0		06/12/2012 U 19/11/2012 U	VITAL SHELF VITAL REMOTE	
111015 111015 111016 111016	RDROPCA RDRHSME	UPDATE UPDATE	PENDLTN RDRHSME	26/11/2012 01:0 26/11/2012 01:0	0:33 E4E4	21/05/2012 U 29/08/2012 U	VITAL SHELF VITAL SHELF	
111017 111017	RDRHSME	UPDATE	STCHSM	26/11/2012 01:0	0:33 E4E4	30/11/2012 U	VITAL SHELF	
111018 111018 111019 111019	RDRHSME RDROPCA	UPDATE UPDATE	TAUBER WHEELER	26/11/2012 01:0 26/11/2012 01:0	0:34 E4E4	22/10/2012 U 25/06/2012 U	VITAL SHELF VITAL REMOTE	
111020 111020 111021 111021	RDRHSME RDROPCA	UPDATE UPDATE	WRIGHT ZOUNEK	26/11/2012 01:0 26/11/2012 01:0		14/03/2012 U 25/06/2012 U	VITAL SHELF VITAL REMOTE	

Figure 122. 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 volume owner.

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 that 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.

<u>Figure 123 on page 131</u> is sorted by rack number and date. The report includes all the SMF audit records for the week.

		Nudit Report			11/27/12		6:52	- 1 -					
RACK/BIN	I VOLUME	OWNER	ACTIVITY	USERID	DATE	TIME	SYS	EXP-DATE SE		TUS I	LOCATION	LOAN-L	
900001	111001	RDRHSME	UPDATE	ВЈК	26/11/2012	01:00:32	E4E4	19/11/2012 U	VIT	AL	REMOTE		
900002	111019	RDROPCA	UPDATE	DENZEL	26/11/2012	01:00:34	E4E4	25/06/2012 U	VIT	AL	REMOTE		
900003	111137	RDRHSME	UPDATE	GILLPAT	26/11/2012	01:00:44	E4E4	26/11/2012 U	VIT	AL	REMOTE		
900004	111021	RDROPCA	UPDATE	MOREY	26/11/2012			25/06/2012 U	VIT		REMOTE		
900005	111023	RDROPCA	UPDATE	PALMER	26/11/2012	01:00:35	E4E4	25/06/2012 U	VIT	AL	REMOTE		
900006	111036	RDROPCA	UPDATE	PENDLTN	26/11/2012			25/06/2012 U	VIT		REMOTE		
900007	111044	RDROPCA	UPDATE	RDRHSME	26/11/2012	01:00:35	E4E4	25/06/2012 U	VIT	AL	REMOTE		
800000	111050	RDROPCA	UPDATE	STCHSM	26/11/2012	01:00:36	E4E4	25/06/2012 U	VIT	AL	REMOTE		
900009	111051	RDROPCA	UPDATE	TAUBER	26/11/2012	01:00:36	E4E4	25/06/2012 U	VIT	AL	REMOTE		
900010	111066	RDROPCA	UPDATE	WHEELER	26/11/2012	01:00:37	E4E4	25/06/2012 U	VIT	AL	REMOTE		
900011	111139	RDRHSME	UPDATE	WRIGHT	26/11/2012	01:00:44	E4E4	26/11/2012 U	VIT	AL	REMOTE		
900012	111140	RDRHSME	UPDATE	ZOUNEK	26/11/2012	01:00:44	E4E4	26/11/2012 U	VIT	AL	REMOTE		

Figure 123. EDGJAUDW: Sample Report of a weekly audit Report sorted by rack number

In addition to the data columns that are described in <u>Figure 122 on page 130</u>, this sample report includes an additional data column:

RACK or BIN

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

Figure 124 on page 132 is sorted by user ID and date and time. The report includes all the SMF audit records for the day. See Figure 122 on page 130 for the description of the data columns that are used in this report.

DFSMSrmm	User Audit Repo	ort Consoli	dation	11/27/12	17	:56:57	- 1 -			
USERID	VOLUME RACK-#	ACTIVITY	OWNER	DATE	TIME	SYS	EXP-DATE SEC	STATUS	LOCATION	LOAN-LOC
BJK	111001 111001	UPDATE	RDRHSME	26/11/2012	01.00.33	 E4E4	19/11/2012 U	VITAL	REMOTE	
DENZEL	111001 111001	UPDATE	RDRHSME	26/11/2012			19/11/2012 U	VITAL	REMOTE	
GILLPAT	111004 111004	UPDATE	RDROPCA	26/11/2012			18/11/2012 U	VITAL	SHELF	
MOREY	111008 111008	UPDATE	RDRHSME	26/11/2012			06/12/2012 U	VITAL	SHELF	
PALMER	111009 111009	UPDATE	RDRHSME	26/11/2012			19/11/2012 U	VITAL	REMOTE	
PENDLTN	111015 111015	UPDATE	RDROPCA	26/11/2012			21/05/2012 U	VITAL	SHELF	
RDRHSME STCHSM	111016 111016 111017 111017	UPDATE UPDATE	RDRHSME RDRHSME	26/11/2012 26/11/2012			29/08/2012 U 30/11/2012 U	VITAL VITAL	SHELF SHELF	
TAUBER	111017 111017	UPDATE	RDRHSME	26/11/2012			22/10/2012 U	VITAL	SHELF	
WHEELER	111010 111010	UPDATE	RDROPCA	26/11/2012			25/06/2012 U	VITAL	REMOTE	
WRIGHT	111020 111020	UPDATE	RDRHSME	26/11/2012			14/03/2012 U	VITAL	SHELF	
ZOUNEK	111021 111021	UPDATE	RDROPCA	26/11/2012	01:00:34	E4E4	25/06/2012 U	VITAL	REMOTE	

Figure 124. EDGJAUDW: Sample Report of a weekly audit Report sorted by userid

Creating 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 *z/OS DFSMSrmm Managing and Using Removable Media* 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 125 on page 133 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. Use the OUTREC statement to build the RMM subcommands. This sample is 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 125 on page 133 shows a sample of the input for EDGJBCAV.

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

Figure 125. EDGJBCAV: Sample input of barcode-scanned volumes

Figure 126 on page 133 shows a sample of the output for EDGJBCAV. Refer to z/OS DFSMSrmm Managing and Using Removable Media 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 126. EDGJBCAV: Sample output of RMM ADDVOLUME subcommands from barcode scanned volumes

Auditing the tape library audit using a 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 125 on page 133 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 the extract data set that is 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 builds 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 builds a record that contains the rack number in column 1. You should not need to customize this information.

EDGJCOMB examples

Figure 127 on page 134 shows a sample report of volumes that are found only in the extract data set.

EM0000 EM0001 EM0002

Figure 127. EDGJCOMB: Sample list of volumes found in the extract data set only

Figure 128 on page 134 shows a sample report of volumes that are found only in the library.

WOODYS

Figure 128. EDGJCOMB: Sample list of volumes in the location library only

<u>Figure 129 on page 134</u> shows a sample report of volumes that are found in both the library and the extract data set.

111000 111001 111002 111003 111010

Figure 129. EDGJCOMB: Sample list of volumes in the library and the extract data set

Creating 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 $\underline{z/OS\ DFSMSrmm}$ 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 130 on page 135 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 130. EDGJCVB: Sample output of RMM CHANGEVOLUME subcommands for volumes in storage locations

Figure 131 on page 135 shows a sample report of volumes by location and the number of each volume in each location.

```
DFSMSrmm - Volume Counts by Location 11/13/12 07:39:17 - 1 -

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

Figure 131. EDGJCVB: Sample Report of volume counts by location

The data columns are:

LOCATION

The storage location names.

COUNT

The number of volumes by location.

Creating a data set report sorted by data set name

EDGJDSN creates a report of data sets that are 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

<u>Figure 132 on page 136</u> shows a sample report of data sets that are sorted by data set name. The sample report includes all data sets.

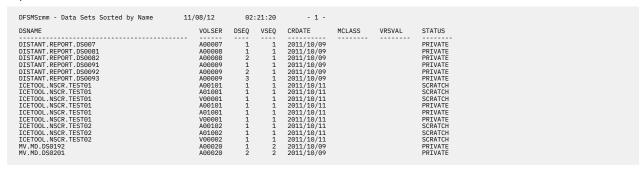


Figure 132. EDGJDSN: Sample Report of data sets sorted by name

The data columns are:

DSNAME

The name of the data set.

VOLSER

The volume serial number.

DSEO

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 133 on page 136 shows a sample report of data sets by status.

Figure 133. 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

Creating 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:

- RMMSCR 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 change column headers and the record offsets by modifying the DISPLAY statement. 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 134 on page 137 is sorted by volume serial number and lists only new scratch volumes.

FSMSrmm	- New Scratch Volumes	12/11/12	15:08:16	- 1 -	-			
OLSER	DSNAME		SCR DATE	VSEQ	JCL EXPDT	STATUS	LOCATION	MEDIANM
11977	CSSM.BACKUP.ALLSDSPS.G0299		11/12/2012	1	16/12/2012	SCRATCH	SHELF	TAPE
12052	CSSM.BACKUP.ALLSDSPS.G0297		07/12/2012	1	12/12/2012	SCRATCH	SHELF	3480
12094	DBDC.DUMP.V8SCI00.G0289V00		07/12/2012	1	22/12/2012	SCRATCH	SHELF	TAPE
12096	RHSM.BACKTAPE.DATASET		07/12/2012	1	, , ,	SCRATCH	SHELF	TAPE
12195	DBDC.DUMP.V8SCI00.G0289V00		07/12/2012	2	22/12/2012	SCRATCH	SHELF	TAPE
12198	CSSM.BACKUP.ALLSDSPS.G0298	/00	09/12/2012	1	14/12/2012	SCRATCH	SHELF	3490
12251	DBDC.DUMP.V8SIM01.G0298V00		07/12/2012	1	22/12/2012	SCRATCH	SHELF	TAPE
12255	DBDC.DUMP.V8SIM01.G0298V00		07/12/2012	2	22/12/2012	SCRATCH	SHELF	TAPE
12270	RHSM.HMIGTAPE.DATASET		07/12/2012	1		SCRATCH	SHELF	3480
12271	DBDC.DUMP.V8BASE3.G0043V00		07/12/2012	1	22/12/2012	SCRATCH	SHELF	3490
12291	DBDC.DUMP.V8BASE3.G0043V00		07/12/2012	2	22/12/2012	SCRATCH	SHELF	3490

Figure 134. 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 135 on page 138 shows a sample report of scratch volumes by media name.



Figure 135. 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.

Creating 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 136 on page 139 shows a sample report of rack prefixes and the number of each rack prefix.

Figure 136. 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 that are assigned to racks starting with the prefix

Obtaining 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 137 on page 140 shows a sample report of lost volumes.

Figure 137. 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 record: EDGRVEXT" on page 254.

Recovering 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 138 on page 141 shows a sample of the RMM ADDVOLUME subcommands that are 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 z/OS DFSMSrmm Managing and Using Removable Media 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
RELEASEACTION(SCRATCH
                                                                                                                                                                          ) ASDATE(2011/015) ASTIME(200126)
                                                                                                                                                                                                                                                                                                                                           ) EXPDT(2011/071)
               OWNERACCESS(ALTER ) SECLEVEL(U
                                                                                                                                                                                                                                                                      ) OWNER(RDRHSME )
               DESCRIPTION(
 RMM ADDVOLUME 111001 STATUS(SCRATCH ) RACK(111001) UNIT(TAPE DENSITY(IDRC) USE(MVS )
                                                                                                                                                                                                                                                                                                                                                                                                                                             ) LABEL(SL )
               RELEASEACTION(SCRATCH
RMM ADDVOLUME 111002 STATUS(SCRATCH ) RACK(111002) UNIT(TAPE DENSITY(IDRC) USE(MVS ) RELEASEACTION(SCRATCH )
RMM ADDVOLUME 111003 STATUS(MASTER ) RACK(111003) UNIT(TAPE DENSITY(3480) USE(MVS ) ASDATE(2011/655) ASTIME(180754) RELEASEACTION(SCRATCH ) EXPDT(2012 (1997) EXPDT(2012 (199
                                                                                                                                                                                                                                                                                                                                                                                                                                             ) LABEL(SL )
                                                                                                                                                                                                                                                                                                                                                                                                                                            ) LABEL(SL )
                                                                                                                                                                                                                                                                                                                                          ) EXPDT(2012/005)
                 OWNERACCESS(ALTER ) SECLEVEL(U
                                                                                                                                                                                                                                                                    ) OWNER(SMFADM
              DESCRIPTION('
ACCOUNT('TSG,E1C,M4031MA
 RMM ADDVOLUME 111010 STATUS(MASTER ) RACK(111010) UNIT(TAPE DENSITY(IDRC) USE(MVS ) ASDATE(2011/015) ASTIME(050143) RELEASEACTION(SCRATCH ) EXPDT(2011/015) ASTIME(050143) RELEASEACTION(SCRATCH ) EXPDT(2011/015) ASTIME(050143) RELEASEACTION(SCRATCH ) EXPORT (CANADACTER) ASTIME (CANADACT
                                                                                                                                                                                                                                                                                                                                                                                                                                            ) LABEL(SL )
              OWNERACCESS(ALTER ) SECLEVEL(U
DESCRIPTION('
                                                                                                                                                                                                                                                                    ) OWNER(RDRHSME )
               ACCOUNT (
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                                                                                                                                                                                                                                                                                                                                                                                                                                            ) LABEL(SL )
                 ACCOUNT (
 RMM ADDVOLUME 111030 STATUS(SCRATCH ) RACK(111030) UNIT(TAPE
                                                                                                                                                                                                                                                                                                                                                                                                                                             ) LABEL(SL )
RMM ADDVOLUME 111030 STATUS(SCRATCH ) RACK(111030) UNIT(TAPE DENSITY(IDRC) USE(MVS ) RELEASEACTION(SCRATCH ) RACK(111100) UNIT(TAPE DENSITY(IDRC) USE(MVS ) RELEASEACTION(SCRATCH )
                                                                                                                                                                                                                                                                                                                                                                                                                                             ) LABEL(SL )
 RMM ADDVOLUME 111200 STATUS(SCRATCH ) RACK(111200) UNIT(TAPE DENSITY(IDRC) USE(MVS ) RELEASEACTION(SCRATCH )
                                                                                                                                                                                                                                                                                                                                                                                                                                               ) LABEL(SL )
 RMM ADDVOLUME 111300 STATUS(MASTER ) RACK(111300) UNIT(TAPE DENSITY(IDRC) USE(MVS ) ASDATE(2011/185) ASTIME(211111)
                                                                                                                                                                                                                                                                                                                                                                                                                                             ) LABEL(SL )
               RELEASEACTION(SCRATCH
                                                                                                                                                                                                                                                                                                                                           ) EXPDT(2011/132)
               OWNERACCESS(ALTER ) SECLEVEL(U
                                                                                                                                                                                                                                                                    ) OWNER(RDROPCA )
               ACCOUNT ('TSG, E1C, M4031MC
                                                                                                                                                                                                                                                                                                                                                        ')
```

Figure 138. EDGJRECV: Sample list of RMM ADDVOLUME subcommands for lost volumes

Creating reports on owners sorted by name and by department

EDGJROWN reads the DFSMSrmm extract data set and creates a report of owners that is sorted by name and a report that is sorted by department number.

EDGJROWN input and output

EDGJOWN 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 139 on page 142 is sorted by last name and includes all volume owners.

Gary Coleman COLEMAN SJSVM28 GCOLEMAN 12345 w95 0 Gohr Bernd D044412 MAZVM02 GOHR 3147 4193 5 Kuehn Werner D094746 MAZVM01 WKUEHN 2116 4193 29	LAST NAME	FIRST NAME	OWNER-ID	NODE	USERID	TIELINE	DEPT	# OF TAPES
Dile Mike DILE MVSNET DILE 294-0897 M98 15 DFHSM Storage Ad HSNE25 MVSNET DILE 294-0897 M98 1 Etz Arnd D041044 MAZVM01 ETZ 2966 4193 - SM 0 Gary Coleman COLEMAN SJSVM28 GCOLEMAN 12345 695 0 Gohr Bernd D044412 MAZVM02 GOHR 3147 4193 5 Kuehn Werner D0947474 MAZVM01 WKUEHN 216 4193 29								
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							W98	0
Etz Arnd D041044 MAZVM01 ETZ 2966 4193 SM 0 Gary Coleman COLEMAN SJSVM28 GCOLEMAN 12345 95 0 Gohr Bernd D044412 MAZVM02 GOHR 3147 4193 5 Kuehn Werner D094746 MAZVM01 WKUEHN 2116 4193 29								15
Gary Coleman COLEMAN SJSVM28 GCOLEMAN 12345 w95 0 Gohr Bernd D944412 MAZVM02 GOHR 3147 4193 5 Kuehn Werner D994746 MAZVM01 WKUEHN 2116 4193 29								Θ
Gohr Bernd D044412 MAZVM02 GOHR 3147 4193 5 Kuehn Werner D094746 MAZVM01 WKUEHN 2116 4193 29	Etz							0
Kuehn Werner D094746 MAZVM01 WKUEHN 2116 4193 29	Gary							0
Kuehn Werner D094746 MAZVM01 WKUEHN 2116 4193 29 Streu Ullfried D090667 MAZVM02 USTREU 6418 4193 0		Bernd						5
Streu Ullfried D090667 MAZVM02 USTREU 6418 4193 0								29
	Streu	Ullfried	D090667	MAZVM02	USTREU	6418	4193	0
	TOTAL TAPES							49

Figure 139. 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 owner's electronic mail address.

USERID

The user ID of the owner's electronic mail address.

TIELINE

The internal phone number of the owner.

DEPT

The department ID of the owner.

OF TAPES

The number of tapes that are owned by the person who is identified by the owner ID.

Figure 140 on page 142 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 141 on page 143.

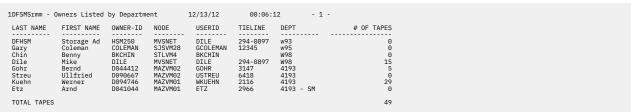


Figure 140. EDGJROWN: Sample Report of owners listed by department

Creating volume reports

EDGJRVOL reads the DFSMSrmm extract data set and creates reports of volumes, which are 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 141 on page 143 is sorted by volume name and includes all volumes.



Figure 141. 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.

<u>Figure 142 on page 144</u> shows a sample report of volumes that are sorted by rack number. The data columns for this report are the same as the Volumes Sorted by Volume Serial report, as shown in <u>Figure 141</u> on page 143.

```
DFSMSrmm - Volumes Sorted by Rack number 11/14/11 03:11:41 - 1 -

VOLUME RACK-# OWNER-ID EXPIRATION SEC UNIT STATUS DESCRIPTION ACCOUNT-DATA

A00001 A00001 D041044 12/14/2012 TINS 3480 MASTER
A00002 A00002 D041044 12/30/2012 TINS 3480 MASTER
A00003 A00003 D041044 12/30/2012 TINS 3480 MASTER
A00004 A00004 D041044 12/30/2012 VIAP 3480 MASTER
A00005 A00005 D041044 12/30/2012 VIAP 3480 MASTER
A00006 A00006 D041044 04/30/2012 VIAP 3480 MASTER
A00006 A00006 D041044 04/30/2012 VIAP 3480 MASTER
```

Figure 142. EDGJRVOL: Sample Report of volumes sorted by rack number

Figure 143 on page 144 shows a sample report of volumes that are 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 141 on page 143.

```
DFSMSrmm - Volumes Sorted by Security Level 11/14/12 03:11:43 - 1 -

VOLUME RACK-# OWNER-ID EXPIRATION SEC UNIT STATUS DESCRIPTION ACCOUNT-DATA

A00106 A00106 D041044 03/39/2012 11HS 3480 MASTER
A00107 A00107 D041044 03/39/2012 11HS 3480 MASTER
A00108 A00109 D041044 09/39/2012 11HS 3480 MASTER
A00109 A00109 D041044 09/39/2012 11HS 3480 MASTER
A00109 A00109 D041044 09/39/2012 11HS 3480 MASTER
A00109 A00109 D041044 09/39/2012 VTAP 3480 MASTER
A00100 A00100 D041044 09/39/2012 VTAP 3480 MASTER
A01000 A01000 D041044 05/39/2012 VTAP 3490 MASTER
A01000 A01000 D041044 05/39/2012 VTAP 3490 MASTER
```

Figure 143. EDGJRVOL: Sample Report of volumes sorted by security level

Figure 144 on page 144 shows a sample report of volumes that are sorted by owner.

The data columns for this report are the same as the Volumes Sorted by Volume Serial report, as shown in Figure 141 on page 143.

```
DFSMSrmm - Volumes Sorted by Owner 11/14/12 03:11:45 - 1 -

VOLUME RACK-# OWNER-ID EXPIRATION SEC UNIT STATUS DESCRIPTION ACCOUNT-DATA

A00301 A00301 D041044 10/14/2012 VTAP 3480 MASTER
A00303 A00303 D041044 06/30/2012 VTAP 3480 MASTER
A00303 A00303 D041044 06/30/2012 VTAP 3480 MASTER
A00304 A00304 D043024 06/30/2012 VTAP 3480 MASTER
A00305 A00305 D043024 04/30/2012 VTAP 3480 MASTER
A00306 A00306 D043024 04/30/2012 VTAP 3480 MASTER
A00307 A00308 D043024 06/30/2012 VTAP 3480 MASTER
A00308 A00309 D051133 05/30/2012 VTAP 3480 MASTER
A00309 A00309 D051133 10/14/2012 VTAP 3480 MASTER
A00309 A00309 D051133 10/14/2012 VTAP 3480 MASTER
```

Figure 144. EDGJRVOL: Sample Report of volumes sorted by owner

Figure 145 on page 145 shows a sample report of volumes that are 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 141 on page 143.

```
DFSMSrmm - Volumes Sorted by Expiration Date 11/14/12 03:11:47 - 1 -

VOLUME RACK-# OWNER-ID EXPIRATION SEC UNIT STATUS DESCRIPTION ACCOUNT-DATA

A00401 A00401 D041044 10/14/2012 VTAP 3480 MASTER
A00402 A00403 D041044 10/14/2012 VTAP 3480 MASTER
A00403 A00403 D041044 06/30/2012 VTAP 3480 MASTER
A00404 A00404 D041044 06/30/2012 VTAP 3480 MASTER
A00405 A00405 D041044 04/30/2012 VTAP 3480 MASTER
A00406 A00406 D041044 04/30/2012 VTAP 3480 MASTER
A00407 A00407 D041044 05/30/2012 VTAP 3480 MASTER
A00407 A00407 D041044 05/30/2012 VTAP 3480 MASTER
```

Figure 145. EDGJRVOL: Sample Report of volumes sorted by expiration date

Creating 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:

TOOI IN

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 292, maps the SMF record. The EDGSVREC macro, as described in "SMF volume information: EDGSVREC" on page 305, 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 either the IFASMFDP or IFASMFDL 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 "Creating a summary of SMF records" on page 146 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 146 on page 146 shows a sample report that is sorted by log date and log time and includes all DFSMSrmm SMF volume records.

TIME	DATE	SYS	USER	ACT	VOLUME	CREATE	LASTCH	LASTUS	ER LASTSYS	LASTUSCH
7104C7	11330	E4E4	RDRHSME	С	111673	2011266	2011330	*0CE	E4E4	2011320
7104E5	11330	E4E4	RDRHSME	С	111673	2011266	2011330	*0CE	E4E4	2011320
7106EB	11330	E4E4	RDRHSME	С	111720	2011267	2011330	*OCE	E4E4	2011278
710717	11330	E4E4	RDRHSME	С	111720	2011267	2011330	*0CE	E4E4	2011278
766363	11330	E4E4	RDRHSME	С	111673	2011266	2011330	*OCE	E4E4	2011320
766371	11330	E4E4	RDRHSME	С	111673	2011266	2011330	*0CE	E4E4	2011320
7663C2	11330	E4E4	RDRHSME	C	111673	2011266	2011330	*0CE	E4E4	2011320
76B708	11330	E4E4	RDRHSME	С	111720	2011267	2011330	*OCE	E4E4	2011278
76B712	11330	E4E4	RDRHSME	С	111720	2011267	2011330	*0CE	E4E4	2011278
78657E	11330	E4E4	RDRHSME	C	111674	2011239	2011330	*0CE	E4E4	2011201
78659D	11330	E4E4	RDRHSME	С	111674	2011239	2011330	*0CE	E4E4	2011201
79347F	11330	E4E4	RDRHSME	C	111674	2011239	2011330	*OCE	E4E4	2011201

Figure 146. 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

Α

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.

LASTUSER

The last change user ID.

LASTSYS

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.

Creating 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 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 either the IFASMFDP or IFASMFDL utility. Set the data set name to that used on your system to contain archived SMF records.

EDGJSMFP examples

Figure 147 on page 147 shows a sample report of SMF audit records and the number of each record.

```
DFSMSrmm - SMF Audit Records 11/27/12 15:53:48 - 1

SMF RECORD NUMBER COUNT OF RECORDS HEX EQUIVALENT

2 1 02
3 1 03
248 817 F8
```

Figure 147. 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, which are sorted 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.

Creating 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 148 on page 148 is sorted by storage location and bin number and includes all volumes currently in storage locations.



Figure 148. EDGJVLT: 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 name of the job that created the data set.

ASDATE

The date that the volume was assigned to the current owner.

STORE

The name of the storage location.

STORE DATE

The date that 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 149 on page 148 shows a sample report of volumes that are sorted by storage location.

```
DFSMSrmm - Volume Counts by Location 11/14/12 05:49:51 - 1 -

STORE COUNT

DISTANT 4
LOCAL 3
REMOTE 6
```

Figure 149. EDGJVLT: Sample Report of volume counts by location

The data columns are:

STORE

The storage location

COUNT

The number of volumes, which are sorted by storage location

Creating 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.
- RMMVLTMS 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

<u>Figure 150 on page 149</u> is sorted by destination and volume serial number and includes only volumes that are ready to move to storage locations.

	1 - Volumes Moving to Storage Location 12	2/12/12	15:01:49	- 1			
VOLSER	DSNAME	JOBNAME	ASDATE	DEST	STORE DATE	BIN #	MEDIANM
111000	RHSM.HMIGTAPE.DATASET	HSME4	28/11/2012	VLTX	10/11/2012		TAPE
111001	RHSM.DMP.VRDUMP.VE4DA08.D95318.T442904			VLTX	01/12/2012		TAPE
111002	RHSM.DMP.VRDUMP.VE4DA06.D95318.T301404			VLTX	01/12/2012		TAPE
111003	SYSME, E4, WEEKLY, DATA, G0185V00	PSMFF4W2	13/11/2012	VLTX	29/09/2012		TAPE
111004	RTSGM.VRDUMP.V8E7U01.G0277V00		,,	VLTX	29/09/2012		TAPE
111006	RTSGM.VRDUMP.V8E1MV3.G0272V00			VLTX	04/11/2012		TAPE
111007	RTSGM.VRDUMP.V8E1MV3.G0272V00			VLTX	04/11/2012		TAPE
111008	RHSM. HMTGTAPE. DATASET	HSME4	01/12/2012	VLTX	24/10/2012		TAPE
111009	RHSM. DMP. VRDUMP. VF4DA06. D95318. T301404		,,	VLTX	01/12/2012		TAPE
111013	RTSGM. DUMPWKI Y. MSMP02. G0031V00			VLTX	29/09/2012		TAPE
111014	RTSGM. DUMPWKI Y. MSMP02. G0031V00			VLTX	03/10/2012		TAPE
111015	RTSGM.DUMPMTLY.V8ESA13.G0027V00	ESAMSTRM	16/05/2012	VLTX	14/05/2012		TAPE
111016	RHSM.BACKTAPE.DATASET	HSME4	24/08/2012	VLTX	11/08/2012		TAPE
111017	RHSM.BACKTAPE.DATASET	HSME4	25/11/2012	VLTX	24/10/2012		TAPE

Figure 150. 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 name of the job that created the data set.

ASDATE

The date that the volume was assigned to the current owner.

DEST

The destination, the target storage location of the volume.

STORE DATE

The date that the volume destination was set or the date that the volume was ejected, whichever is more recent.

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

<u>Figure 151 on page 150</u> shows a sample report of the number of volumes in each identified storage location.

Figure 151. EDGJVLTM: Sample Report of volume counts by location

The data columns are:

STORE

The destination storage location.

COUNT

The number of volumes, which are sorted by storage location.

Creating reports about data sets and volumes that are copy exported

EDGJCEXP provides a report on copies of logical volumes that have been exported from TS7700 Virtualization Engine. The report consolidates point in time information from the copy export status file, the library and DFSMSrmm to help you identify tape data that has been copy exported.

EDGJCEXP input and output

You can create the reports either from the export list file of up to three copy exports, or from the VOLUME MAP, VOLUME MAP BACKUP (starting with Release 3.0 of the TS7700 Virtualization Engine), and PHYSICAL VOLUME STATUS POOL information created from the IBM Virtualization Engine TS7700 Series Bulk Volume Information Retrieval Function (BVIR). The information about stacked volumes, and logical volume copies is retrieved from this input and merged with the information that the DFSMSrmm extract file X records has for the stacked volumes and the logical volumes.

For information on how to create the BVIR volume map, volume map backup, or physical volume status pool map, see *IBM Virtualization Engine TS7700 Series Bulk Volume Information Retrieval Function User's Guide Version 1.5* at IBM Techdocs: White Papers (www.ibm.com/support/techdocs/atsmastr.nsf/Web/WhitePapers).

A current report extract containing extended records (type X) is required. You can use any date format and time zone when you create the extract file.

Customize the EDGJCEXP sample JCL SET symbols to name the data sets to be used for input and output, and to select whether a copy export status file or BVIR output is used as input. The sample JCL contains a RMM Report Extract step at its beginning.

EDGJCEXP input and output is as follows:

Input:

The input SET symbols are:

CEXP

Set to 0 to use BVIR input, or to 1 to use copy export status file input

BVIR

Set to 1 to use BVIR input, or to 0 to use copy export status file input

EXTRACT

Set to the data set name to be used for the DFSMSrmm extract file. This data set must already exist.

MESSAGE

Set to the data set name to be used for the EDGHSKP MESSAGE DD. This data set must already exist.

BVOLMAP

If you set BVIR symbol to '1', set this symbol to the data set name of the BVIR Volume Map or Volume Map Backup. If specified, this data set must already exist.

BVOLSTA

If you set BVIR symbol to '1', set this symbol to the data set name of the BVIR Volume Status. If specified, this data set must already exist.

COPEXP1

If you set CEXP symbol to '1', set to the data set name of the first Copy Export Status file. If specified, this data set must already exist.

COPEXP2

If you set CEXP symbol to '1', set to the data set name of the second Copy Export Status file or set to NULLFILE. If specified, this data set must already exist.

COPEXP3

If you set CEXP symbol to '1', set to the data set name of the third Copy Export Status file or set to NULLFILE. If specified, this data set must already exist.

Output:

The output SET symbols are:

REPDSN

Set to the data set name to be used for the data set name report

REPLVOL

Set to the data set name to be used for the logical volume report

REPSVOL

Set to the data set name to be used for the stacked volume report

EDGJCEXP examples

Figure 152 on page 152 shows examples of the three types of copy export reports.

The data columns in the copy export reports are presented in groups:

DATA SET INFO LOGICAL VOLUME INFO STACKED VOLUME INFO COPY EXPORT INFO

which are presented in a sequence depending on the sort order.

1Copy Exported Data Sets		1 -	12/08	/2012	03:30:21											
based on Bulk Volume Information Retrieval da	ta															
DATA SET INFORMATION EXPORT INFO							LOGICAL	VOLUME	INFO		STACKED	VOLUME	INFO			COPY
	CREATE	CREATE REC	BLK	RETENTION	EXPIRATION	PHYSICAL	V		REQUIRED	EXPIRATION		CURRENT	DESTI	IN	RETENTION	٧
	DATE	TIME FM	SIZE	DATE	DATE	FILE SEQ	R VOLSER	VOLSEQ	LOCATION	DATE	VOLSER	LOCATION	NATION	TRAN	DATE	R -
	2011/338	082750 F	80	2011/353	2011/341	1	Y HYD868	1	MAZ2	2011/341	A02039	ATL3484F	MAZ1	Υ	2020/001	Υ
2011/338 083938 BERNDS.EXPIRED.HYD880 2011/338 083938	2011/337	150732 F	80	2011/352	2011/340	1	Y HYD880	1	MAZ2	2011/341	A02039	ATL3484F	MAZ1	Υ	2020/001	Υ
BERNDS.MULTI.VOLUME.DS1	2011/338	082524 FB	80	2011/353	2011/341	1	Y HYD862	1	MAZ2	2011/341	A02039	ATL3484F	MAZ1	Υ	2020/001	Υ
2011/338 083938 BERNDS.MULTI.VOLUME.DS1 2011/338 083938	2011/338	082524 FB	80	2011/353	2011/341	1	Y HYD861	1	MAZ2	2011/341	A02039	ATL3484F	MAZ1	Υ	2020/001	Υ
1Copy Exported Data Sets By Logical Volume		- 1 -	12/08	/2012	03:30:22											
based on Bulk Volume Information Retrieval da	ta															
Logical Volume Info: HYD861 1 MAZ2 20	11/341															
	CREATE DATE	CREATE REC	BLK SIZE	RETENTION DATE			STACKED V R VOLSER	CURREN'	T DESTI	IN RET		COPY EXI V EXPORT R DATE	PORT INFO EXPO TIME	RT		
BERNDS.SEC14.HYD861 BERNDS.SEC14.HYD861	2011/338	082524 FB 082527 F 082638 F 082749 F	80 80	2011/353 2011/353 2011/353 2011/353	2011/341 2011/341 2011/341 2011/341	2	Y A02039 Y A02039	ATL3484 ATL3484 ATL3484	4F MAZ1 4F MAZ1	Y 2020 Y 2020	9/001 9/001	Y 2011/33 Y 2011/33 Y 2011/33 Y 2011/33	8 0839 8 0839	38 38 38		
1Copy Exported Data Sets By Stacked Volume		1 -	12/08	/2012	03:30:22											
based on Bulk Volume Information Retrieval da	ta															
Stacked Volume Info: A02039 ATL3484F MAZ1	Y 2020/0	01 Y 2011/	338	983938												
LOGICAL VOLUME INFO DATA SET I	NFORMATION			CDEAT	FF CDE43	E DEC . DI	K DETEN	TTON 5	VDTDATTON	DUNCTON V						
REQUIRED EXPIRATION VOLSER VOLSEQ LOCATION DATE DATA SET N	AME			CREAT DATE			ZE DATE		ATE	PHYSICAL V FILE SEQ R						
HYD861 1 MAZ2 2011/341 BERNDS.MUL HYD861 1 MAZ2 2011/341 BERNDS.SEC)S1		2011, 2011, 2011,	/338 08252	7 F	80 2011/3 80 2011/3 80 2011/3	353 20	911/341 911/341 911/341	1 Y 2 Y 3 Y						

Figure 152. Three copy export reports

The sort order is different for each of the three reports created: For the data set report, the information is sorted by data set name, listing the most recent copies of a data set first. For the logical volume report, the information is sorted by ascending logical volume serial number, then by physical file sequence number, and the report starts a new page for each logical volume. For the stacked volume report the information is sorted by stacked volume volser, by logical volume volser and by physical file sequence number. A new report page is used for each stacked volume.

The data column groups provide the following information:

DATA SET INFO group

DATA SET NAME

The name of the data set for the identified file on the volume.

CREATE DATE

The date the data set was created. The date format and time zone used are those used for the creation of the extract file from which the report is created.

CREATE TIME

The time the data set was created.

RECFM

The data set record format.

BLKSIZE

The data set block size.

RETENTION DATE

The data set retention date as calculated by VRSEL processing.

EXPIRATION DATE

The data set expiration date.

PHYSICAL FILE SEQ

The file sequence number of the data set on the volume on which the data set resides.

V R

The data set vital record status.

LOGICAL VOLUME INFO group

VOLSER

The volume serial number of the copy exported logical volume.

VOLSEO

The volume sequence number of the copy exported logical volume.

REQUIRED LOCATION

The location to which retention policies or commands direct the volume.

EXPIRATION DATE

The logical volume expiration date.

STACKED VOLUME INFO group

VOLSER

The volume serial number of the stacked volume on which the logical volume copies are exported.

CURRENT LOCATION

The current location of the stacked volume. If the volume is in transit this is the location from which it is moving.

DESTINATION

The location to which the stacked volume should move.

INTRANSIT

Indicates if the stacked volume is moving. One of:

Υ

The volume is ejected and is moving to its destination.

N

The volume is not moving.

RETENTION DATE

The stacked volume retention date as calculated by VRSEL processing.

V_R

The stacked volume vital record status.

COPY EXPORT INFO group

EXPORT DATE

The date the copy export was performed. This value is taken from the DFSMSrmm volume information, volume assigned date which is set when the host system is notified of export completion.

EXPORT TIME

The time the copy export was performed. This value is taken from the DFSMSrmm volume information, volume assigned time which is set when the host system is notified of export completion.

Creating volume reports sorted by volume serial number

EDGJVOL reads the DFSMSrmm extract data set and creates reports that are 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.

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, customize the SORT statement included in the VOLFCNTL file.

EDGJVOL examples

<u>Figure 153 on page 154</u> is sorted by volume serial number, file sequence on the volume, and data set name. The sample report lists all the volumes.

VOLSER	DSNAME	JOBNAME	VSEQ	AS/CR DATE	EXPDT	JCL EXPDT	ST	R
								-
CIP4B4	BMC.CIP.INSTALL		1	13/03/2012	12/03/2012		US	N
	BMC.ISIUNLD.BTCHUNLD		1	13/03/2012	,,			
	BMC.ISIUNLD.CNTL		1	13/03/2012				
	BMC.ISIUNLD.LOAD		1	13/03/2012				
	BMC.ISIUNLD.DATA		ī	13/03/2012				
CLB201			1	21/07/2012	20/07/2012		MA	N
CLB203			1	21/07/2012	20/07/2012		MA	N
CLB204			1	21/07/2012	20/07/2012		MA	N
CN1698	COMPAREX.OBJECT		1	21/03/2012	20/03/2012		US	N
CN4545	CW.FA.FILE1		1	24/03/2012	22/03/2012		US	N
	CW.FA.FILE2		1	27/03/2012	, ,			
CN5072	CW.FA.FILE1		1	03/04/2012	02/04/2012		US	N
	CW.FA.FILE2		1	03/04/2012				
CRP120	SMPMCS		1	02/08/2012	31/07/2012		MA	N
	HCRP120.F1		1	14/08/2012				
	HCRP120.F2		1	14/08/2012				
CRWPMT	RW.V1R3M0.JCLMT		1				SC	N
	RW.V1R3MO.COBQMT		1	07/12/2012				
	RW.V1R3M0.COBĂMT		1	07/12/2012				
	RW.V1R3MO.RUNMT		1	07/12/2012				
DK3062			1	03/03/2012	00/00/2012		US	N
DLS311			1	06/12/2012	30/11/2012		MA	N
DL0692	CANDLE.MAINT.PTFINFO		1	03/03/2012	00/00/2012		US	N
DL1202			1	21/07/2012	20/07/2012		MA	N
INFA61	INFOREM.ALLOCPTF.INSTRUCT		1	12/05/2012	11/05/2012		MA	N
INFB61	INFOREM.BASEPTF.INSTRUCT		1	12/05/2012	11/05/2012		MA	N

Figure 153. 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 that 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 154 on page 155 shows a sample report of volumes in either master or scratch status.

Figure 154. 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 which are sorted by volume status.

<u>Figure 155 on page 155</u> shows a sample report of the number of volumes that are either pending release or not pending release.

```
DFSMSrmm - Volume Counts by Pending Release 11/10/12 02:47:30 - 1 -
PENDING RLSE COUNT
N 55
```

Figure 155. 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 which are sorted by pending release type.

Chapter 8. Creating REXX EXECs

This topic contains information that 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 use the stem value of 0 to indicate the number of items returned by the command for that variable.

In some cases, such as EDG@VOL (for SEARCHVOLUME), the .0 stem variable indicates that multiple resources meet the search criteria. For example, if you issue the RMM SEARCHVOLUME subcommand, EDG@VOL.0 might contain 2, indicating that 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.

In other cases, such as EDG@VOL (for LISTPRODUCT), the .0 stem variable indicates how many of some repeatable value exist for a single resource. For example, if you issue the RMM LISTPRODUCT subcommand, EDGVOL.0 might contain 5, indicating that five volume serial numbers are associated with the listed product. EDG@VOL.1 contains the first volume serial number, and EDG@VOL.2 contains the second volume serial number, and so on.

Some variables, such as EDG@LDMN, return information in a double stem variable. For example, if you issue the RMM LISTCONTROL LOCDEF subcommand, EDG@LDMN.1.0 variable contains the number of media names that are used for the first location. EDG@LDMN.1.1 contains the first media name, EDG@LDMN.1.2 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, EDG@LDMN.2.2 the second media name.

Using sample REXX EXECs

These examples are supplied as members EDGXMP1 and EDGXMP2 in the DFSMSrmm SAMPLIB data set. You can modify the samples to obtain information about your volumes and data sets.

EDGXMP1 VOLCHAIN EXEC

Use EDGXMP1 to list all the volumes in a multivolume set of volumes, as shown in this example:.

```
/* 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:"
Pull volser
                              /* Issue prompt to TSO user
                              /* Get volume serial from TSO user*/
end
Call LISTVOL volser
                              /* Set variable information for
                              /* requested volume.
```

```
If result = 0 then
                                        /* Are variables OK?
                                        /\star Save the next volume pointer /\star Put this volume serial on the
    nextvol = edg@nvl
    push edg@vol
                                        /* stack.
                                        /* Chain through the previous
                                        /* volumes, listing each and
/* putting each volume serial on
/* the stack.
Do while (result = 0) & (strip(edg@pvl) ^= '')
      Call LISTVOL edg@pvl
                                       /* Set variable information for
                                        /* previous volume.
      If result = 0 then
                                        /* If previous volume exists then */
                                        /* Put its serial number on the
         Push edg@vol
                                        /* stack.
                                        /* of chaining prevvol pointers */
                                        /* Start the chain at the next
    edg@nvl = nextvol
                                        /* volume of the volume which was */
                                        /* listed first.
                                        /* volume serial on the stack.

Do while (result = 0) & (strip(edg@nvl) ^= '')
Call LISTVOL edg@nvl /* Set variable information for
      Call LÌSTVOL edg@nvl
                                        /* previous volume. */
/* If previous volume exists then */
      If result = 0 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
End /* of volume list */
                                        /* off the stack and write it to
/* the TSO user.
  end /* of successful list */
exit(0)
                                        /* return to caller
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
    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 /* Inc
                                        /* Indicate Unsuccessful
                                        /* LISTVOLUME.
junk = prompt(save_prompt)
                                        /* Restore PROMPT status.
return lvresult
                                        /* Return to caller.
```

EDGXMP2 DSNLIST EXEC

Use EDGXMP2 to display volume information, as shown in this example:

```
/* 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*/
                                     /* Tell RMM TSO command to return */
sysauth.edgdate = "EUROPEAN"
                                     /* output as REXX variables and
                                     /* dates in EUROPEAN (DD/MM/YYYY) */
                                     /* format.
save_prompt = prompt("OFF")
                                    /* Turn PROMPTing off.
                                     /* Turn messages off.
save_msg = msg("OFF")
                                     /* Get information for data sets
                                     /* on the volume
address "TSO" "RMM SEARCHDATASET DSNAME(*) 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.
                                     /st Display data set listed by the st/
                                     /* Search command until all are
                                     /* displayed or non-zero return
                                     /* code received.
  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 DSNAME(*) VOLUME("volser") LIMIT(*)"
address "TSO" "RMM SEARCHDATASET DSNAME(*) VOLUME("volser") LIMIT(*)"
 end
                                     /* Restore PROMPT status.
junk = prompt(save_prompt)
exit(0)
                                     /* return to caller
```

EDGMKVRS EXEC to make backup of VRS policies

The EDGMKVRS sample creates a list of RMM ADDVRS commands that reproduce all the VRS policies from an extract data set created from the CDS.

Input for the EDGMKVRS sample is an extract data set created from the CDS produced by the EDGHSKP utility during inventory management.

Output of the EDGMKVRS sample is a list of RMM ADDVRS commands generated from the extract data set.

Inputs

SORTIN DD provides the extract data set, DFSPARM DD is used to write the sort cards used to select needed information from the extract data set.

Outputs

VRSCMDS DD will contain the generated RMM ADDVRS commands. It can be used to add VRS policies to the CDS

SYSTSPRT DD will contain a logging of the exec with statistics

A JCL EDGJMVRS sample is used to submit the EDGMKVRS sample.

```
//*----
//* EDGMKVRS call
//*------
//EDGMKVRS EXEC PGM=IKJEFT01,PARM='%EDGMKVRS',DYNAMNBR=20
//SYSPROC DD DISP=SHR,DSN=SYS1.SAMPLIB
//SYSTSPRT DD SYSOUT=*
//SYSOUT DD SYSOUT=*
//SYSTSIN DD DUMMY
//VRSCMDS DD DISP=SHR,DSN=RMMUSER1.VRSCMDS
//DFSPARM DD DISP=NEW,DSN=&&DFSPARM,UNIT=SYSALLDA,SPACE=(TRK,(1,1)),
// LRECL=80,RECFM=FB //SORTIN DD DISP=SHR,DSN=RMMUSER2.APAR.REPTEXT
//*
```

Both samples EDGMKVRS and EDGJMVRS reside on SYS1.SAMPLIB.

The EDGMKVRS sample selects from an extract data set all the VRS records (RKTYPEID,'K' TYPE 'K' -VRS RECORD), and generates ADDVRS commands of three types (RMM AS DSNAME..., RMM AS NAME..., RMM AS VOLUME...) depending on contents of the VRS records on the extract data set.

Practically all generated parameters are equal to the parameters from original commands ADDVRS except a parameter PRIORITY. This parameter is always generated as PRIORITY(0). The extract data set does not contain such a parameter.

A parameter DELETEDATE corresponds to the original value if the extract data set was created with parameter DATEFORM(J), otherwise DELETEDATE(1999/365) is generated.

For more information about REXX variables you can specify, see $\underline{z/OS}$ DFSMSrmm Managing and Using Removable Media.

Appendix A. DFSORT symbols for use with DFSMSrmm

DFSMSrmm provides you with symbols that 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, EDGACXSY, EDGEXTSY, EDGSMFSY, EDGS42SY, and EDGSRCSY. 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 topic describes the available symbol mappings, which are:

- "EDGACTSY: Activity file symbols" on page 161.
- "EDGACXSY: Combined activity/extended extract record symbol mapping" on page 166.
- "EDGEXTSY: Extract data set symbols" on page 168.
- "EDGSMFSY: SMF record symbols" on page 187.
- "EDGS42SY: SMF audit record type 42 subtype 22" on page 189
- "EDGSRCSY: SMF record" on page 190

EDGACTSY: Activity file symbols

EDGACTSY provides the DFSORT symbol mapping for the DFSMSrmm inventory management activity file as follows:

```
* 00100000
  RMM Inventory Management Activity File Record
                                                      * 00150000
     DFSORT Symbol mapping
                                                      * 00200000
                                                      * 00250000
* 00333300
 z/OS DFSMSrmm V2R4
                                                      * 00366600
                                                      * 00400000
* PROPRIETARY V3 STATEMENT
                                                       00450000
* LICENSED MATERIALS - PROPERTY OF IBM
                                                      * 00500000
* "RESTRICTED MATERIALS OF IBM"
                                                      * 00550000
* 5650-Z0S
                                                      * 00600000
* COPYRIGHT IBM CORP. 1993,2019
                                                       00650000
* STATUS = HDZ2240
                                                       00700000
* END PROPRIETARY V3 STATEMENT
                                                       00750000
                                                      * 00800000
******************** 00850000
  SEE "z/OS DFSMSrmm Reporting" FOR FIELD DETAILS ON RMM RECORDS @03C* 00900000 SEE "DFSORT APG" FOR DETAILS OF USING SYMBOLS. @03C* 00950000
01062500
* $MAC(EDGACTSY) COMP(DF186) PROD(RMM) : Activity File DFSORT Symbols * 01075000
                                                      * 01087500
* CHANGE ACTIVITY:
                                                      * 01100000
* $LG=RMM210 ,210,990901,CHK: DFSORT Symbols
* $01=0W44589,210,000522,BG: Correct DFSMSrr
                                                  @LGA * 01137500
                       Correct DFSMSrmm reference comment @01A * 01175000
 $02=0W45053,210,000616,MWW Cleanup EDGJACTP symbols
                                                  @02A * 01187500
$MV=V1R10 ,1RA,070613,BRB: Support limits for Release/Scratch @MVA * 01198900
 $K1=K1A2205,1RA,080211,BRB: correct placement of new fields
                                                  @K1A * 01199400
```

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* $0X=RMMRRE ,2R1,111006,BRB: 75.1.5.3 Report Retention Enh.
                                                                         @OXA * 01236500
 $M7=214978 ,2R4,181023,VD : RGE: Ensure American & European @M7A * 01236540
* : date format for ACTIVITY data set @M7A * 01236560
* $M7=261985 ,2R4,180716,KG : Add EDM to inventory manag. reps. @M7A * 01870100
ACTRC, 1, 470
                                                                         @NNA 01250000
* ACTRC: RMM ACTIVITY file records
                                                                              * 01350000
ACTRC_RDW,1,4,BI
ACTRC_RDW_LEN,=,2,BI
ACTRC_RDW_SEG,*,2,BI
                                                 record descriptor word
                                                                                01450000
                                                 record descriptor - length 01500000
record descriptor - segment 01550000
* 01650000
* Common record prefix
ACTRC_PREFIX,*,4,CH
                                                 common prefix
                                                                                01750000
    ACTRC_PRE_TYPE,=,1,CH
ACTRC_PRE_TYPE_HDR,'H'
ACTRC_PRE_TYPE_DSN,'D'
ACTRC_PRE_TYPE_VOL,'V'
                                                 activity file record type
                                                                                01800000
                                                   header record
                                                                                01850000
                                                   data set details record
                                                                                01900000
                                                   volume details record
                                                                                01950000
    ACTRC_PRE_ITPE_VOL, V

ACTRC_PRE_RETENTION_GROUP, *, 1, CH One of: R, D, X

ACTRC_PRE_RETENTION_GROUP_VRSRETAIN, 'R'

ACTRC_PRE_RETENTION_GROUP_VRSDROP, 'D'

ACTRC_PRE_RETENTION_GROUP_EXPDTDROP, 'X'
                                                                           @NNA 01966600
                                                                           @NNA 01983200
                                                                           @NNA 01999800
                                                                           @NNA 02016400
    SKIP,2
                                                 reserved
                                                                           @NNC 02033000
* Start overlay area
                                                                              * 02100000
ACTRC DATA.*
                                                 start overlay for details 02200000
* 02300000
* Header Record
start at ACTRC_DATA
    POSITION, 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
ACTRC_HDR_VERIFY_DATE,*,10,CH
ACTRC_HDR_EXEC_PARMS,*,16
                                                 inventory management time 02550000 inventory mgmt. VERIFY date 02600000
                                                 execution parameters
                                                                                02650000
         ACTRC_HDR_BACKUP,=,1,CH
                                                 BACKUP
                                                                                02700000
           ACTRC_YES,'Y
ACTRC_NO,'N'
                                                                                02750000
                                                  yes
                                                                                02800000
                                                   no
         ACTRC_HDR_DSTORE,*,1,CH
                                                 DSTORE
                                                                                02850000
           ACTRC_YES,'Y
ACTRC_NO,'N'
                                                                                 02900000
                                                   yes
                                                                                02950000
                                                    no
         ACTRC HDR EXPROC, *, 1, CH
                                                 EXPROC
                                                                                03000000
           ACTRC_YES,'Y
ACTRC_NO,'N'
                                                                                03050000
                                                   ves
                                                                                03100000
                                                   no
         ACTRC_HDR_RPTEXT,*,1,CH
                                                 RPTEXT
                                                                                03150000
           ACTRC_YES,'Y
ACTRC_NO,'N'
                                                                                03200000
                                                   yes
                                                                                03250000
                                                   no
        ACTRC_HDR_VRSEL,*,1,CH
ACTRC_YES,'Y'
ACTRC_NO,'N'
                                                 VRSEL
                                                                                03300000
                                                                                03350000
                                                   yes
                                                                                03400000
         ACTRC_HDR_VERIFY,*,1,CH
                                                 VERIFY
                                                                                03450000
           ACTRC_YES,'Y'
ACTRC_NO,'N'
                                                                                03500000
                                                   ves
                                                                                03550000
                                                   no
         ACTRC_HDR_DATE, *, 1, CH
                                                 DATE for VERIFY run
                                                                                03600000
        ACTRC_HDR_DATE,*,1,CH
ACTRC_YES,'Y'
ACTRC_NO,'N'
ACTRC_HDR_DATEFORM,*,1,CH
ACTRC_HDR_DATEFORM_AMERICAN,'A'
ACTRC_HDR_DATEFORM_EUROPEAN,'E'
ACTRC_HDR_DATEFORM_ISO,'I'
ACTRC_HDR_DATEFORM_JULIAN,'J'
                                                                                03650000
                                                   yes
                                                                                03700000
                                                   no
                                                 DATEFORM
                                                                                03750000
                                                                                03800000
                                                   American
                                                                                03850000
                                                   European
                                                   IS0
                                                                                03900000
                                                                                03950000
                                                   Julian
        ACTRC_HDR_CATSYNCH,*,1,CH
ACTRC_YES,'Y'
ACTRC_NO,'N'
                                                 CATSYNCH
                                                                                03970000
                                                                                03990000
                                                   yes
                                                                                04010000
                                                   no
         SKIP,7
                                                 reserved
                                                                                04030000
      SKIP,7

ACTRC_HDR_OPTIONS,*,31

ACTRC_HDR_VRSJOBNAME,=,1,CH

ACTRC_HDR_VRSJOBNAME_FIRST,'1'

ACTRC_HDR_VRSJOBNAME_SECOND,'2'

ACTRC_HDR_VRSCHANGE,*,1,CH

ACTRC_HDR_VRSCHANGE_VERIFY,'V'

ACTRC_HDR_VRSCHANGE_INFO,'I'

ACTRC_HDR_CATRETPD,*,4,CH

ACTRC_HDR_VRSMIN_COUNT,*,10,CH

ACTRC_HDR_VRSMIN_ACTION * 1 CH
                                                 parmlib options
                                                                                04065000
                                                 VRSJOBNAME priority
                                                                                04100000
                                                   jobname first
                                                                                04150000
                                                    jobname second
                                                                                04200000
                                                 VRŠCHANGE
                                                                                04250000
                                                   verify
                                                                                04300000
                                                   information
                                                                                04350000
                                                 CATRETPD hours
                                                                                04400000
                                                 VRSMIN min. number of VRSs
                                                                                04450000
         ACTRC_HDR_VRSMIN_ACTION, *, 1, CH
                                                 VRSMIN action
                                                                                04500000
           ACTRC HDR VRSMIN ACTION FAIL, 'F'
ACTRC HDR VRSMIN ACTION WARN, 'W'
ACTRC HDR VRSMIN ACTION INFO, 'I'
                                                   fail
                                                                                04550000
                                                                                04600000
                                                   warning
                                                   information
                                                                                04650000
           ACTRC_HDR_VRSMIN_ACTION_OFF, '0'
                                                                          @MVA 04652100
```

```
ACTRC_HDR_OPT_VRSEL,*,1,CH
                                                                                              VRSEL
                                                                                                                                                           04700000
                ACTRC_HDR_OPT_VRSEL_NEW,'N'
ACTRC_HDR_OPT_VRSEL_OLD,'O'
ACTRC_HDR_OPT_VRSEL_BLANK,'
ACTRC_HDR_UNCATALOG,*,1,CH
ACTRC_HDR_UNCATALOG_NO,'N'
                                                                                                                                                           04750000
                                                                                                   new
                                                                                                                                                 @K2A 04800000
                                                                                                   old
                                                                                                   blank -> new
                                                                                                                                                @NKC 04850000
                                                                                              UNCATALOG
                                                                                                                                                           04900000
                                                                                                                                                           04950000
                ACTRC_HDR_UNCATALOG_NO,'N'
ACTRC_HDR_UNCATALOG_YES,'Y'
ACTRC_HDR_UNCATALOG_SCRATCH,'S'
ACTRC_HDR_TPRACF,*,1,CH
ACTRC_HDR_TPRACF_NONE,'N'
ACTRC_HDR_TPRACF_PREDEFINED,'P'
ACTRC_HDR_TPRACF_AUTOMATIC,'A'
ACTRC_HDR_TPRACF_CLEANUP,'C'
ACTRC_HDR_SYSID,*,8,CH
ACTRC_HDR_CATSYSID,*,1,CH
ACTRC_HDR_CATSYSID_NOT_SET,'N'
ACTRC_HDR_CATSYSID_SET,'Y'
                                                                                                                                                           05000000
                                                                                                   ves
                                                                                                   scratch volume only
                                                                                                                                                           05050000
                                                                                              TPRACF
                                                                                                                                                           05100000
                                                                                                   none
                                                                                                                                                           05150000
                                                                                                   predefined profiles
                                                                                                                                                           05200000
                                                                                                   automatic profiles
                                                                                                                                                           05250000
                                                                                                                                                @MFA 05275000
05300000
                                                                                                   cleanup
                                                                                              SYSID
                                                                                              CATSYSID
                                                                                                                                                           05310000
                                                                                                   not set
                                                                                                                                                           05320000
                ACTRC_HDR_CATSYSID_SET,'Y'
ACTRC_HDR_CATSYSID_SHARED,'*'
ACTRC_HDR_OPT_RETAINBY,*,1,CH
                                                                                                   set to 1-16 sysid's
                                                                                                                                                           05330000
                                                                                              set to fully shared RETAINBY V/S
                                                                                                                                                           05340000
                                                                                                                                                           05341400
                     ACTRC_HDR_OPT_RETAINBY_VOLUME,'V'
ACTRC_HDR_OPT_RETAINBY_SET,'S'
                                                                                                   volume
                                                                                                                                                           05342800
                                                                                                                                                           05344200
                                                                                                   set
                 ACTRC_HDR_OPT_MOVEBY, *, 1, CH
                                                                                              MOVEBY V/S
                                                                                                                                                           05345600
                ACTRC_HDR_OPT_MOVEBY_VOLUME,'V'
ACTRC_HDR_OPT_MOVEBY_SET,'S'
ACTRC_HDR_VRSDROP_COUNT,*,10,CH
                                                                                                   volume
                                                                                                                                                           05347000
                                                                                                                                                           05348400
                                                                                                   set
                                                                                              VRS max num vols drop. @K1M 05350600
                ACTRC_HDR_VRSDROP_COUNT,*,10,CH
ACTRC_HDR_VRSDROP_PERCENT,*,3,CH
ACTRC_HDR_VRSDROP_ACTION,*,1,CH
ACTRC_HDR_VRSDROP_ACTION_FAIL,'F'
ACTRC_HDR_VRSDROP_ACTION_WARN,'W'
ACTRC_HDR_VRSDROP_ACTION_INFO,'I'
ACTRC_HDR_VRSDROP_ACTION_OFF,'O'
ACTRC_HDR_VRSRETAIN_COUNT,*,10,CH
ACTRC_HDR_VRSRETAIN_PERCENT_*,3 CH
                                                                                              VRS max % vols dropped @K1M 05352800
                                                                                              VRSDROP action
                                                                                                                                                @K1M 05355000
                                                                                                                                                @K1M 05357200
                                                                                                   fail
                                                                                                                                                @K1M 05359400
                                                                                                   warning
                                                                                                   information
                                                                                                                                                @K1M 05361600
                                                                                                   OFF
                                                                                                                                                @K1M 05363800
                                                                                              VRS min num vols retai.@K1M 05366000
                 ACTRC_HDR_VRSRETAIN_PERCENT,*,3,CH
ACTRC_HDR_VRSRETAIN_ACTION,*,1,CH
                                                                                              VRS min % vols retained@K1M 05368200
                                                                                              VRSRETAIN action
                                                                                                                                                @K1M 05370400
                     ACTRC_HDR_VRSRETAIN_ACTION_FAIL, 'F' fail
                                                                                                                                                @K1M 05372600
                     ACTRC_HDR_VRSRETAIN_ACTION_WARN,'W'
ACTRC_HDR_VRSRETAIN_ACTION_INFO,'I'
ACTRC_HDR_VRSRETAIN_ACTION_OFF,'O'
                                                                                                  warning
                                                                                                                                                @K1M 05374800
                                                                                                                                                @K1M 05377000
                                                                                                   information
                                                                                                                                                @K1M 05379200
                                                                                                   OFF
                ACTRC_HDR_VRSREIAIN_ACTION_OFF,'O' OFF
ACTRC_HDR_EXPDTDROP_COUNT,*,10,CH EXP max nt
ACTRC_HDR_EXPDTDROP_PERCENT,*,3,CH EXP max %
ACTRC_HDR_EXPDTDROP_ACTION,*,1,CH EXPDTDROP
ACTRC_HDR_EXPDTDROP_ACTION_FAIL,'F' fail
ACTRC_HDR_EXPDTDROP_ACTION_WARN,'W' warning
ACTRC_HDR_EXPDTDROP_ACTION_INFO,'I' informat
ACTRC_HDR_EXPDTDROP_ACTION_OFF,'O' OFF
ACTRC_HDR_EXPDTDROP_ACTION_OFF,'O' OFF
ACTRC_HDR_EXPDTDROP_ACTION_OFF,'O' OFF
ACTRC_HDR_GDGCYCLEBY,*,1,CH
AC
                                                                                              EXP max num vols drop. @K1M 05381400 EXP max % vols dropped @K1M 05383600
                                                                                              EXPDTDROP action
                                                                                                                                                @K1M 05385800
                                                                                                                                                @K1M 05388000
                                                                                                                                                @K1M 05390200
                                                                                                   information
                                                                                                                                                @K1M 05392400
                                                                                                                                                @K1M 05394600
                                                                                              GDG CYCLEBY
                                                                                                                                                @N3A 05394800
                     ACTRC_HDR_GDGC_GENERATION,'G'
ACTRC_HDR_GDGC_CRDATE,'C'
                                                                                                  in generation seq.
                                                                                                                                                @N3A 05395000
                                                                                                                                                @N3A 05395200
                                                                                                   in creation seq.
                ACTRC_HDR_GDGDUPLICATE,*,1,CH
ACTRC_HDR_GDGDUPLICATE,*,1,CH
ACTRC_HDR_GDGD_BUMP,'B'
ACTRC_HDR_GDGD_DROP,'D'
ACTRC_HDR_GDGD_KEEP,'K'
ACTRC_HDR_GDGD_COUNT,'C'
                                                                                              GDG DUPLICATE
                                                                                                                                                @N3A 05395400
                                                                                                   bump from subchain
                                                                                                                                                @N3A 05395600
                                                                                                   drop from retention
                                                                                                                                               @N3A 05395800
                                                                                                   keep cycle number
                                                                                                                                                @N3A 05396000
                                                                                                   count cycle number
                                                                                                                                                @N3A 05396200
                                                                                              reserved
                                                                                                                                                @NNA 05396300
                 ACTRC HDR VRS LAST RUNDATE, *, 10, CH Date of last VRSEL run @NNA 05396400
                                                                                              Time of last VRSEL run @NNA 05396500
                 ACTRC_HDR_VRS_LAST_RUNTIME, *, 6, CH
   ACTRC_HDR_END, *
                                                                                                                                                           05396800
                                                                                              End of header record
* 05450000
* Data Set Record
POSITION, ACTRC_DATA
                                                                                              start at ACTRC_DATA
                                                                                                                                                           05550000
        ACTRC_DSN_DATA, = ,451, CH
                                                                                              overlay for dset data @00C 05600000
            ACTRC_DSN_DSNAME, =, 44, CH
ACTRC_DSN_JOBNAME, *, 8, CH
ACTRC_DSN_VOL, *, 6, CH
                                                                                              data set name
                                                                                                                                                           05650000
                                                                                                                                                           05700000
                                                                                              creating job name
                                                                                              volume serial number
                                                                                                                                                           05750000
            SKIP.8
                                                                                              reserved was dseq/fseq @LLC 05800000
                                                                                                    number
                                                                                                                                                           05900000
            ACTRC_DSN_CRDATE, *, 10, CH
                                                                                              data set creation date
                                                                                                                                                           05950000
           ACTRC_DSN_CRDATE,*,10,CH
ACTRC_DSN_CRTIME,*,6,CH
ACTRC_DSN_LOC,*,8,CH
ACTRC_DSN_DEST,*,8,CH
ACTRC_DSN_SMS_MC,*,8,CH
ACTRC_DSN_VRS_MV,*,8,CH
ACTRC_DSN_CATLG,*,1,CH
ACTRC_DSN_CATLG_NO,'N'
ACTRC_DSN_CATLG_NO,'N'
ACTRC_DSN_CATLG_FATLED
                                                                                                                                                           06000000
                                                                                              data set creation time
                                                                                              volume location
                                                                                                                                                           06050000
                                                                                                                                                           06100000
                                                                                              volume destination
                                                                                              SMS management class name
                                                                                                                                                           06150000
                                                                                              VRS management value name
                                                                                                                                                           06200000
                                                                                              data set catalog status
                                                                                                                                                           06250000
                                                                                                                                                           06300000
                                                                                                 cataloged
                                                                                                   not cataloged
                                                                                                                                                           06350000
                 ACTRC_DSN_CATLG_FAILED,'F'
                                                                                                   locate failed
                                                                                                                                                           06400000
                 ACTRC_DSN_CATLG_UNKNOWN,'U'
                                                                                                                                                           06450000
                                                                                                  no locate issued
                                                                                              primary vrs data set
            ACTRC_DSN_CYCLE, *, 10, CH
                                                                                                                                                           06500000
                                                                                                                                                           06550000
                                                                                                    cycle number
            ACTRC_DSN_2CYCLE, *, 10, CH
                                                                                              secondary vrs data set
                                                                                                                                                           06600000
                                                                                                    cycle number
                                                                                                                                                           06650000
```

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ACTRC_DSN_SUBCHAIN_DROP, *, 1, CH
                                                         primary subchain drop
                                                                                             06700000
                                                                                             06750000
                                                            reason
       ACTRC_DSN_2SUBCHAIN_DROP, *, 1, CH
                                                         secondary subchain drop
                                                                                             06800000
                                                                                             06850000
                                                            reason
       SKIP,27
                                                         reserved
                                                                                             06866600
                                                                                             06883200
       ACTRC_DSN_VOL_DSNNO, *, 5, CH
                                                         no of data sets on volu@NTA 06899800
       ACTRC_DSN_VOL_INSET,*,1,CH
                                                         volume in a set: Y/N
                                                                                     @NTA 06916400
                                                                                             06933000
       ACTRC_DSN_CHANGE, *,8
ACTRC_DSN_CHNG_VRS,=,1,CH
                                                         changes to data set details 06950000
                                                         vital rec status
                                                                                             07000000
          ACTRC_YES,'Y'
ACTRC_NO,'N'
ACTRC_DSN_CHNG_RETDATE,*,1,CH
                                                                                             07050000
                                                           yes
                                                                                             07100000
                                                           no
                                                                                             07150000
                                                         retention date
            ACTRC_YES,'Y
ACTRC_NO,'N'
                                                           yes
                                                                                             07200000
                                                           no
                                                                                             07250000
          ACTRC_DSN_CHNG_MATCH, *, 1, CH
                                                                                             07300000
                                                         matching VRS
            ACTRC_YES,'Y
ACTRC_NO,'N'
                                                                                             07350000
                                                           yes
                                                                                             07400000
                                                           no
          ACTRC_DSN_CHNG_SUBCHAIN, *, 1, CH
                                                         retaining Subchain
                                                                                             07450000
            ACTRC_YES,'Y
ACTRC_NO,'N'
                                                                                             07500000
                                                           yes
                                                                                             07550000
                                                           no
          SKIP,4
                                                                                             07600000
                                                         reserved
       ACTRC_DSN_VITAL,*,2,CH
                                                                                             07614200
                                                         vital record status
          ACTRC_DSN_VITÁL_NÝ,'NY'
ACTRC_DSN_VITAL_YN,'YN'
                                                               newly retained NY
                                                                                             07628400
       ACTRC_DSN_VITAL_YN, 'YN'
ACTRC_DSN_VITAL_RETAIN, 'RETAINED'
ACTRC_DSN_VITAL_DROPPED, 'DROPPED'
ACTRC_DSN_OLD_VITAL,=,1,CH
                                                               dropped
                                                                                             07642600
                                                               newly retained NY
                                                                                             07656800
                                                                                   ΥN
                                                                                             07671000
                                                               dropped
                                                         old vital record status
                                                                                             07685200
       ACTRC_YES,'Y'
ACTRC_NO,'N'
ACTRC_DSN_NEW_VITAL,*,1,CH
                                                                                             07700000
                                                           yes
                                                           no
                                                                                             07750000
                                                         new vital record status
                                                                                             07800000
            ACTRC_YES,'Y
ACTRC_NO,'N'
                                                                                             07850000
*
                                                           yes
                                                           no
                                                                                             07900000
       ACTRC_DSN_DROP,*,1,CH
ACTRC_DSN_DROP_WHILECATALOG,'W'
ACTRC_DSN_DROP_UNTILEXPIRED,'U'
                                                         reason for non-retention
                                                                                             07950000
                                                           WHILECATALOG
                                                                                             0800000
                                                           UNTILEXPIRED
                                                                                             08050000
          ACTRC_DSN_DROP_CYCLES,'C'
ACTRC_DSN_DROP_DAYS,'D'
ACTRC_DSN_DROP_LASTREF,'L'
                                                           cycles exeeded
                                                                                             08100000
                                                           days since creation exceed08150000
                                                           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 exeeded
                                                                                             08400000
          ACTRC_DSN_DROP_NO_MATCH, 'N
                                                           No VRS match
                                                                                             08450000
          ACTRC_DSN_DROP_DUP_GDG, 'G'
ACTRC_DSN_DROP_VOL_RELEASED, 'V'
                                                           GDG cycle; duplicate GDG
                                                                                             08500000
                                                           Volume released / scratch 08550000
          ACTRC_DSN_DROP_BLANK,
                                                                                             08600000
       ACTRC_DSN_NEW_LOC, *, 8, CH
                                                         new required data set locatio8650000
       ACTRC_DSN_OLD_RETDATE, *, 10, CH
                                                         old data set retention date 08700000
                                                             Format: see DATEFORM parm08750000
                                                             Special date formats:
*
                                                                                             08800000
                                                               WHILECATLG
                                                                                             08850000
                                                               CYCL/nnnnn
                                                                                             08900000
                                                               CATRETPD
                                                                                             08950000
                                                         new data set retention date 09000000
       ACTRC_DSN_NEW_RETDATE, *, 10, CH
                                                             Format: see DATEFORM parm09050000
                                                             Special date formats:
                                                                                             09100000
                                                                                             09150000
                                                               WHILECATLG
                                                                                             09200000
                                                               CYCL/nnnnn
                                                               CATRETPD
                                                                                             09250000
          ACTRC_DSN_NEW_RETDATE_DAY_E,=,3,CH
                                                            DD/ European format @M7A 09251000
          ACTRC_DSN_NEW_RETDATE_MON_A,=,3,CH
ACTRC_DSN_NEW_RETDATE_MON_E,*,2,CH
ACTRC_DSN_NEW_RETDATE_DAY_A,=,2,CH
ACTRC_DSN_NEW_RETDATE_YEAR_AE,*,5,CH
                                                            MM/ American format @M7A 09252000
                                                             MM European format @M7A 09253000
                                                            DD American format @M7A 09254000
                                                            /Year (Europ & Amer) @M7A 09255000
                                                         old matching VRS
       ACTRC_DSN_OLD_MATCH, *, 113
                                                                                             09300000
         ACTRC_DSN_OLD_MATCH,*,115

ACTRC_DSN_OLD_MTYPE,=,1,CH
ACTRC_DSN_OLD_MTYPE_DSN,'D'
ACTRC_DSN_OLD_MTYPE_SMS,'S'
ACTRC_DSN_OLD_MTYPE_VRS,'V'
ACTRC_DSN_OLD_MTYPE_MIX,'M'
ACTRC_DSN_OLD_MTYPE_DSNSMS,'C'
                                                         old primary VRS type
                                                                                             09350000
                                                           data set name
                                                                                             09400000
                                                           SMS management class
                                                                                             09450000
                                                                                             09500000
                                                           VRS management value
                                                           DSN and VRS mgmt value
                                                                                             09550000
                                                           DSN and SMS mgmt class
                                                                                             09600000
          ACTRC_DSN_OLD_MMASK,*,44,CH
ACTRC_DSN_OLD_MJOB,*,8,CH
ACTRC_DSN_OLD_M2MASK,*,8,CH
ACTRC_DSN_OLD_M2JOB,*,8,CH
                                                         old primary VRS mask
old primary VRS job name
                                                                                             09650000
                                                                                             09700000
                                                                                             09750000
                                                         old second. VRS mask
                                                         old second. VRS job name
                                                                                             09800000
          ACTRC_DSN_OLD_CHAINS, *, 36, CH
                                                                                             09833300
                                                         old VRS subchains
                                                         old primary VRS subchain
            ACTRC_DSN_OLD_MNAME, =, 8, CH
                                                                                             09866600
                                                                                             09900000
                                                            name
            ACTRC_DSN_OLD_MDATE, *, 10, CH
                                                         old primary VRS subchain
                                                                                             09950000
                                                                                             10000000
                                                            start date
```

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ACTRC_DSN_OLD_M2NAME, *, 8, CH old second. VRS subchain
                                                                                                         10050000
                                                                                                         10100000
                                                                    name
              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_VRSS,=,69,CH
ACTRC_DSN_NEW_MTYPE,=,1,CH
                                                                new matching VRS
                                                                                                         10333300
                                                                new primary VRS type
                                                                                                         10366600
              ACTRC_DSN_NEW_HTTPE_SN, 'D'
ACTRC_DSN_NEW_MTYPE_DSN, 'D'
ACTRC_DSN_NEW_MTYPE_SMS, 'S'
ACTRC_DSN_NEW_MTYPE_VRS, 'V'
ACTRC_DSN_NEW_MTYPE_MIX, 'M'
                                                                 data set name
                                                                                                         10400000
                                                                   SMS mamagement class
                                                                                                         10450000
                                                                   VRS management value
                                                                                                         10500000
                                                                   DSN and VRS mgmt value
                                                                                                         10550000
           ACTRC_DSN_NEW_MTYPE_DSNSMS,'C'
ACTRC_DSN_NEW_MMASK,*,44,CH
                                                                  DSN and SMS mgmt class
                                                                                                         10575000
                                                               new primary VRS mask
new primary VRS job name
new second. VRS matched
                                                                                                         10600000
           ACTRC_DSN_NEW_MJOB,*,8,CH
ACTRC_DSN_NEW_M2MATCH,*,16,CH
                                                                                                         10650000
                                                                                                         10683300
           ACTRC_DSN_NEW_M2MASK,=,8,CH
ACTRC_DSN_NEW_M2JOB,*,8,CH
ACTRC_DSN_NEW_CHAINS,*,36,CH
                                                               new second. VRS mask
new second. VRS job name
                                                                                                         10716600
                                                                                                         10749900
                                                                                                         10783200
                                                                new subchain info
              ACTRC_DSN_NEW_MNAME, =, 8, CH
                                                                new primary VRS subchain
                                                                                                         10816500
                                                                                                         10850000
                                                                   name
                                                                new primary VRS subchain
              ACTRC DSN NEW MDATE, *, 10, CH
                                                                                                         10900000
                                                                                                         10950000
                                                                    start date
*
                 ACTRC_DSN_NEW_MDATE_DAY_E,=,3,CH
                                                                    DD/ European format @M7A 10951000
                                                                    MM/ American format @M7A 10952000
                 ACTRC_DSN_NEW_MDATE_MON_A,=,3,CH
                ACTRC_DSN_NEW_MDATE_MON_E,*,2,CH MM European format @M7A 10953000 ACTRC_DSN_NEW_MDATE_DAY_A,=,2,CH DD American format @M7A 10954000 ACTRC_DSN_NEW_MDATE_YEAR,*,5,CH /Year (Europ. & Amer.) @M7A 10955000
                                                               new second. VRS subchain
              ACTRC_DSN_NEW_M2NAME, *, 8, CH
                                                                                                         11000000
                                                                   name
                                                                                                         11050000
              ACTRC DSN NEW M2DATE, *, 10, CH
                                                               new second. VRS subchain
                                                                                                         11100000
                                                                   start date
                                                                                                         11150000
                ACTRC_DSN_NEW_M2DATE_DAY_E,=,3,CH DD/ European format @M7A 11151000 ACTRC_DSN_NEW_M2DATE_MON_A,=,3,CH MM/ American format @M7A 11152000 ACTRC_DSN_NEW_M2DATE_MON_E,*,2,CH MM European format @M7A 11153000 ACTRC_DSN_NEW_M2DATE_DAY_A,=,2,CH DD American format @M7A 11154000 ACTRC_DSN_NEW_M2DATE_YEAR,*,5,CH Year (Europ. & Amer.) @M7A 11155000
           SKIP,8
                                                               reserved
                                                                                                         11200000
           ACTRC_DSN_DSEQ,*,5,CH data set sequence numbeella 11210000
ACTRC_DSN_FILESEQ,*,5,CH physical file sequence @LLA 11233200
ACTRC_DSN_VRSEL_EXCLUDE,*,1,CH excl. from VRSEL Y/N @OHA 11241600
End of data set record 11250000
  ACTRC DSN END, *
  POSITION, ACTRC_DSN_END
                                                                                                         11257100
@NNA 11257300
POSITION, ACTRC_DATA
                                                               start at ACTRC_DATA @NNA 11257500
  ACTRC_VOL_DATA,=
                                                                overlay of volume data @NNA 11257600
     ACTRC_VOL_DSNAME,=,44,CH
ACTRC_VOL_JOBNAME,*,8,CH
ACTRC_VOL_VOL,*,6,CH
                                                                                                 @NNA 11257700
                                                               data set name
                                                              creating job name
vol-serial number
                                                                                                 @NNA 11257800
                                                                                                 @NNA 11257900
                                                            volume ass. date
volume ass. time
volume location
volume destin.
retention moths!
                                                                                                 @NNA 11258000
  SKIP,8
                                                               reserved
     ACTRC_VOL_ASDATE,*,10,CH
ACTRC_VOL_ASTIME,*,6,CH
ACTRC_VOL_LOC,*,8,CH
                                                                                                 @NNA 11258100
                                                                                                 @NNA 11258200
                                                                                                 @NNA 11258300
     ACTRC_VOL_DEST,*,8,CH
ACTRC_VOL_RETMET,*,1,CH
                                                                                                 @NNA 11258400
                                                                                                 @OHA 11258500
                                                               retention method
     ACTRC_VOL_RETMET_VRSEL,'V'
ACTRC_VOL_RETMET_EXPDT,'E'
ACTRC_VOL_RETAINBY,*,1,CH
                                                                                                 @OHA 11258600
                                                              VRSEL
                                                               EXPDT
                                                                                                 @OHA 11258700
                                                                                                 @OXA 11258800
                                                              RETAINBY
        ACTRC_VOL_RETAINBY_VOL,'V'
ACTRC_VOL_RETAINBY_SET,'S'
ACTRC_VOL_RETAINBY_FIRST,'F'
                                                               VOLUME
                                                                                                 @OXA 11258900
                                                                                                 @OXA 11259000
                                                               SET
                                                              FIRSTFILE
                                                                                                 @OXA 11259100
  SKIP,33
                                                                                                 @OXC 11259200
                                                               reserved
  ACTRC_VOL_DSNNO,*,5,CH
ACTRC_VOL_INSET,*,1,CH
ACTRC_VOL_CHANGE,*,8,CH
                                                              no of data sets on volu@NTA 11259300 volume in a set: Y/N @NTA 11259400
                                                                                                 @NNA 11259500
                                                               changes to volume
     ACTRC_VOL_CHNG_VRS,=,1,CH
                                                               vitaľ status: Y/N
                                                                                                 @NNA 11259600
                                                               retent. date: Y/N
                                                                                                 @NNA 11259700
     ACTRC_VOL_CHNG_RETDATE, *, 1, CH
  SKIP,1
                                                               reserved for rel. opt. @NNA 11259800
                                                                                                 @NNA 11259900
     ACTRC_VOL_CHNG_STATUS, *, 1, CH
                                                               released: Y/N
                                                                reserved for loc. rel. @NNA 11260000
  SKIP,1
  SKIP,1
                                                               reserved for act. upd. @NNA 11260100
  SKIP, 2
                                                               reserved
                                                                                                 @NNA 11260200
  ACTRC_VOL_ACTIONS_PENDING,*,6,CH
ACTRC_VOL_ACTPEND_RTS,=,1,CH
ACTRC_VOL_ACTPEND_REPL,*,1,CH
ACTRC_VOL_ACTPEND_RTO,*,1,CH
ACTRC_VOL_ACTPEND_INIT,*,1,CH
ACTRC_VOL_ACTPEND_ERASE,*,1,CH
ACTRC_VOL_ACTPEND_NOTIFY,*,1,CH
ACTRC_VOL_ACTPEND_NOTIFY,*,1,CH
ACTRC_VOL_ACTPEND_REPLEASE,*,6,CH
                                                                                                 @NNA 11260300
                                                               pending actions
                                                               return to scratch
                                                                                                 @NNA 11260400
                                                               replace
                                                                                                 @NNA 11260500
                                                                                                 @NNA 11260600
                                                               return to owner
                                                                                                 @NNA 11260700
                                                               init
                                                                                                 @NNA 11260800
                                                               erase
                                                               notify
                                                                                                 @NNA 11260900
  ACTRC_VOL_ACTIONS_RELEASE, *, 6, CH
                                                                                                 @NNA 11261000
                                                        release actions
```

```
ACTRC_VOL_ACTRLSE_RTS,=,1,CH
                                                             return to scratch
                                                                                                @NNA 11261100
     ACTRC_VOL_ACTRLSE_REPL,*,1,CH
ACTRC_VOL_ACTRLSE_RTO,*,1,CH
ACTRC_VOL_ACTRLSE_INIT,*,1,CH
ACTRC_VOL_ACTRLSE_RASE,*,1,CH
ACTRC_VOL_ACTRLSE_NOTIFY,*,1,CH
                                                             replace
                                                                                                @NNA 11261200
                                                                                                @NNA 11261300
@NNA 11261400
                                                              return to owner
                                                              init
                                                                                                @NNA 11261500
@NNA 11261600
                                                              erase
                                                              notify
        ACTRC_VOL_ACTIONS_CONST_RTS,'S'
ACTRC_VOL_ACTIONS_CONST_RTS,'S'
ACTRC_VOL_ACTIONS_CONST_RPPL,'R'
ACTRC_VOL_ACTIONS_CONST_RTO,'O'
ACTRC_VOL_ACTIONS_CONST_INIT,'I'
ACTRC_VOL_ACTIONS_CONST_ERASE,'E'
ACTRC_VOL_ACTIONS_CONST_NOTIFY,'N'
                                                              return to scratch
                                                                                                @NNA 11261700
                                                                                               @NNA 11261800
@NNA 11261900
                                                              replace
                                                              return to owner
                                                                                                @NNA 11262000
                                                               init
                                                                                                @NNA 11262100
                                                               notify
                                                                                                @NNA 11262200
  ACTRC_VOL_RETAIN_BY_SET,*,1,CH
ACTRC_VOL_OLD_VITAL,*,1,CH
ACTRC_VOL_NEW_VITAL,*,1,CH
ACTRC_VOL_DROP,*,1,CH
                                                              Retain by set: Y/N old vit. stat: Y/N
                                                                                                @NNA 11262300
@NNA 11262400
                                                                                                @NNA 11262500
                                                               new vit. stat: Y/N
                                                               non-retent. reason
                                                                                                @NNA 11262600
  ACTRC_VOL_DROP_EXPDT_EXPIRED,'X'
ACTRC_VOL_DROP_EXPDT_IGNORED,'I'
ACTRC_VOL_NEW_LOC,*,8,CH
                                                               volume eXpired
                                                                                                @NNA 11262700
                                                              EXPDT Ignored new requ'd locat.
                                                                                               @NNA 11262800
@NNA 11262900
  ACTRC_VOL_HOME_LOC,*,8,CH
ACTRC_VOL_EXPDT,*,10,CH
ACTRC_VOL_OLD_RETDATE,*,10,CH
                                                              home location @NNA 11263000
volume exp. date @NNA 11263100
old retent. date @NNA 11263200
new retent. date @NNA 11263300
date format:DATEFORM() @NNA 11263400
                                                                                               @NNA 11263000
  ACTRC_VOL_NEW_RETDATE, *, 10, CH
                                                              Spec. date forms:
                                                                                               @NNA 11263500
                                                                - WHILECATLG
                                                                                                @NNA 11263600
                                                                - CYCL/nnnnn
                                                                                                @NNA 11263700
                                                                - CATRETPD
                                                                                               @NNA 11263800
@NNA 11263900
  SKIP,113
                                                              reserved
                                                            ACTRC_VOL_NEW_MTYPE,*,1,CH
ACTRC_VOL_NEW_MTYPE_VOL,'V'
ACTRC_VOL_NEW_MMASK,*,6,CH
  SKIP, 106
SKIP, 1
                                                             reserved @NTC 11264900 reserved for future use@NNA 11265300
  ACTRC_VOL_VSEQ,*,4,CH
ACTRC_VOL_LABNO1,*,5,CH
ACTRC_VOL_HOLD,*,1,CH
                                                             volume sequence
                                                                                               @NNA 11266100
                                                              1st file data set sequ @NNA 11266900
                                                              volume HOLD Y/N
                                                                                               @00A 11267100
  ACTRC_VOL_HOLD_NO,'N'
ACTRC_VOL_HOLD_YES,'Y'
ACTRC_VOL_EDM,*,1,CH
                                                                                               @00A 11267200
                                                              no
                                                                                                @00A 11267300
                                                              volume EDM Y/N
                                                                                                @M7A 11267320
     ACTRC_VOL_EDM_NO,'N'
ACTRC_VOL_EDM_YES,'Y'
                                                                                                @M7A 11267350
                                                              no
                                                                                                @M7A 11267370
                                                              yes
  ACTRC_VOL_RSV2,*,4,CH
ACTRC_VOL_END,*
                                                                                     @00A @M7C 11267400
                                                              reserved
                                                               end of volume record @NNA 11267700
  POSITION, ACTRC_VOL_END
                                                              Position to end of VOL @NNA 11268500
                                                                                                       11269300
  ACTRC_OUTFIL,=
                                                              Start of fields added by
                                                                                                       11270100
                                                                   OUTFIL processing
                                                                                                       11271300
     ACTRC_OUTFIL_VITALANDDROP,=,22,CH
ACTRC_OUTFIL_VITAL,=,9,=
ACTRC_OUTFIL_DROP,*,13,=
                                                                                                       11278400
                                                              reformatted VR status
                                                                                                       11285500
                                                              reformatted drop reason
                                                                                                       11292600
* End of ACTRC
                                                                                                    * 11350000
```

EDGACXSY: Combined activity/extended extract record symbol mapping

EDGACXSY provides the DFSORT symbol mapping for the DFSMSrmm combined activity/extended record.

```
RMM Inventory Management combined activity/extended extract record * 00150000
    DFSORT Symbol mapping
                                              * 00200000
                                              * 00250000
* z/OS DFSMSrmm V2R4
                                              * 00350000
                                              * 00400000
* PROPRIETARY V3 STATEMENT
                                              * 00450000
* LICENSED MATERIALS - PROPERTY OF IBM
                                               00500000
 "RESTRICTED MATERIALS OF IBM"
                                               00550000
* 5650-Z0S
                                              * 00600000
* COPYRIGHT IBM CORP. 1993,2019
                                              * 00650000
* STATUS = HDZ2210
                                              * 00700000
* END PROPRIETARY V3 STATEMENT
                                              * 00750000
                                              * 00800000
```

```
SEE "z/OS DFSMSrmm Reporting" FOR FIELD DETAILS ON RMM RECORDS
                                                                    * 00900000
  SEE "DFSORT APG" FOR DETAILS OF USING SYMBOLS.
                                                                     * 00950000
* 01050000
* $MAC(EDGACXSY) COMP(DF186) PROD(RMM) : Combined Activity/Extended * 01100000
                                        extract record symbol mapping* 01150000
                                                                    * 01200000
 $NN=RMMARC ,1RC,090401,BG : 8.1 Reporting for EXPDTDROP Symbols $NT=RMMARC ,1RC,090401,BG : 8.2 Reporting for VRSRETAIN Symbols
                                                                    * 01250000
                                                                    * 01275000
 ******************** 01300000
ACXSYC,*
                                                                      01350000
* ACXSY: RMM EXPDTDROP Report IceTool symbol mapping
                                                                    * 01450000
ACXSYC_RDW,1,4,BI
                                         record descriptor word
                                                                      01550000
                                          record descriptor - length 01600000 record descriptor - segment 01650000
   ACXSYC RDW LEN,=,2,BI
   ACXSYC_RDW_SEG,*,2,BI
* Common record prefix
                                                                  * 01750000
ACXSYC_PREFIX,*,11,CH
                                           common prefix
                                                                      01850000
                                                                      01900000
   ACXSYC_PRE_TYPE,=,11,CH activity file record type 01950000
ACXSYC_PRE_TYPE_RELEASED,'RELEASED' RELEASED details record 02000000
ACXSYC_PRE_TYPE_NOCHANGE,'NOCHANGE' NOCHANGE details record 02050000
ACXSYC_PRE_TYPE_RETAINED,'RETAINED' RETAINED details record 02083300
ACXSYC_PRE_TYPE_NOTRETND,'NOTRETAINED' NOTRETAINED details record 021160000
ACXSYC DATA,*
                                          start overlay for details
                                                                      02200000
* Record layout for Status=RELEASED/NOCHANGE
                                                                    * 02750000
start at ACXSYC_DATA
    POSITION, ACXSYC_DATA
                                                                      02850000
    ACXSYC_EXPDTDROP_VOL,*,6,CH
                                           volume serial number
                                                                      02900000
                                           reserved for future use volume sequence number
                                                                      02950000
   ACXSYC_EXPDTDROP_VOLSEQ,*,4,CH
ACXSYC_EXPDTDROP_DSNAME,*,44,CH
                                                                      03000000
                                           1st data set name on volume 03050000
    ACXSYC_EXPDTDROP_JOBNAME, *, 8, CH
                                           creating job name
                                                                      03100000
                                                                      03125000
   ACXSYC_EXPDTDROP_EXPRSN,*,1,CH
ACXSYC_EXPDTDROP_EXPRSN_IGNORE,'I'
ACXSYC_EXPDTDROP_EXPRSN_EXPIRED,'X'
                                                                      03150000
                                           reason for not retained:
                                             expdt Ignore reason expdt eXpired reason
                                                                      03187500
                                                                      03225000
                                                                      03262500
   ACXSYC_EXPDTDROP_ASSIGNED,*,10,CH
ACXSYC_EXPDTDROP_EXPDT,*,10,CH
                                                                      03300000
                                           volume assigned date
                                                                      03350000
                                           volume expiration date
                                           volume retentionmethod @OIA 03375000
volume RETAINBY V,S,F @OXC 03412500
volume retained by set Y/N 03422500
    ACXSYC_EXPDTDROP_RM, *, 1, CH
    ACXSYC_EXPDTDROP_RETAINBY,*,1,CH
ACXSYC_EXPDTDROP_SR,=,1,CH
    ACXSYC_EXPDTDROP_RETDATE, *, 10, CH
                                           volume retention date
                                                                      03450000
                                                                      03475000
   ACXSYC_EXPDTDROP_ACTIONS,*,6,CH
ACXSYC_EXPDTDROP_ACTIONS_RTS,'S'
ACXSYC_EXPDTDROP_ACTIONS_REPL,'R'
                                                                      03500000
                                           volume pending actions:
                                            return to scratch
                                                                      03550000
                                                                      03600000
                                             replace
     ACXSYC_EXPDTDROP_ACTIONS_RTO,'O'
ACXSYC_EXPDTDROP_ACTIONS_INIT,'I'
ACXSYC_EXPDTDROP_ACTIONS_ERASE,'E'
ACXSYC_EXPDTDROP_ACTIONS_NOTIFY,'N'
                                                                      03650000
                                             return to owner
                                                                      03700000
                                             init
                                                                      03750000
                                             erase
                                             notify
                                                                      03800000
                                                                      03825000
    ACXSYC EXPDTDROP LOCATION, *, 8, CH
                                           volume current location
                                                                      03850000
    ACXSYC_EXPDTDROP_HOME, *, 8, CH
                                                                      03900000
                                           volume home location
    ACXSYC_EXPDTDROP_DEST, *, 8, CH
                                                                      03950000
                                           volume destination
                                                                      03975000
    ACXSYC_EXPDTDROP_RLS_ACT, *, 6, CH
                                           volume release actions:
                                                                      04000000
     ACXSYC_EXPDTDROP_RLS_ACT_RTS,'S'
ACXSYC_EXPDTDROP_RLS_ACT_REPL,'R'
ACXSYC_EXPDTDROP_RLS_ACT_RTO,'O'
                                            return to scratch
                                                                      04050000
                                                                      04100000
                                             replace
                                                                      04150000
                                             return to owner
     ACXSYC_EXPDTDROP_RLS_ACT_INIT,'I'
ACXSYC_EXPDTDROP_RLS_ACT_ERASE,'E'
                                                                      04200000
                                             init
                                             erase
                                                                      04250000
      ACXSYC_EXPDTDROP_RLS_ACT_NOTIFY, 'N'
                                             notify
                                                                      04300000
                                                                      04350000
                                          volume HOLD Y/N @00A 04400000 volume EDM Y/N @M7A 04430000
   ACXSYC_EXPDTDROP_HOLD,*,1,CH
ACXSYC_EXPDTDROP_EDM,*,1,CH
                                     reserved for future use @00C @M7C 04450000
ACXSYC_EXPDTDROP_END,*
* Record layout for Status = RETAINED / NOTRETAINED
                                                                    * 04702800
```

```
POSITION, ACXSYC_DATA
                                                       start at ACXSYC_DATA
                                                                                          04705600
                                                       (Int. use) record type V/D
     ACXSYC_VRSRETAIN_REC_TYPE1,*,1,CH
                                                                                          04707000
                                                                                          04708400
     ACXSYC_VRSRETAIN_REC_TYPE2,*,1,CH
                                                       (Int. use) record type A/X
                                                                                          04709800
    ACXSYC_VRSRETAIN_DSGRP,*,64,CH
ACXSYC_VRSRETAIN_VSKEY,=,11,CH
                                                       dataset group
combined volser/seq
                                                                                    @OIC 04711200
                                                                                          04712600
    ACXSYC_VRSRETAIN_VOL,=,6,CH
ACXSYC_VRSRETAIN_FSEQ,*,5,CH
ACXSYC_VRSRETAIN_DSNAME,*,44,CH
ACXSYC_VRSRETAIN_JOBNAME,*,8,CH
ACXSYC_VRSRETAIN_VRSEL_EXCLUDE,*,1,CH
                                                       volume serial number
                                                                                          04714000
                                                       volume sequence number
                                                                                          04715400
                                                       1st data set name on volume 04716800
                                                       creating job name excluded from VRSEL
                                                                                          04718200
                                                                                    @OIA 04718900
                                                                                          04719600
    ACXSYC_VRSRETAIN_DSVRSGRP,*,56,CH
ACXSYC_VRSRETAIN_NEW_VITAL,=,1,CH
ACXSYC_VRSRETAIN_SUBCHAIN_DROP,*,1,CH
ACXSYC_VRSRETAIN_2SUBCHAIN_DROP,*,1,CH
                                                       dataset vrs group
matching VRS Retained
                                                                                          04721000
                                                                                          04722400
                                                       primary drop reason
                                                                                          04723800
                                                       secondary drop reason
                                                                                          04725200
    ACXSYC_VRSRETAIN_NEW_MMASK,*,44,CH
ACXSYC_VRSRETAIN_NEW_MJOB,*,8,CH
ACXSYC_VRSRETAIN_NEW_MTYPE,*,1,CH
                                                       primary VRS
                                                                                          04726600
                                                       job mask
VRS type
                                                                                          04728000
                                                                                          04729400
                                                                                          04730800
                                                       Volume group
Vol VRS
     ACXSYC VRSRETAIN VOLGRP, *, 20, CH
                                                                                          04732200
     ACXSYC_VRSRETAIN_VOLVRS, =, 6, CH
                                                                                          04733600
    ACXSYC_VRSRETAIN_NEW_REASON,*,8,CH
ACXSYC_VRSRETAIN_DSNNO,*,5,CH
                                                       retain reason
volume/dsn sequence
                                                                                          04735000
                                                                                          04736400
                                                       volume belongs to a set Y/N 04737800
     ACXSYC VRSRETAIN NEW INSET, *, 1, CH
                                                                                          04739200
    ACXSYC_VRSRETAIN_VOLRETGRP,*,2,CH
ACXSYC_VRSRETAIN_VOL_RET,=,1,CH
ACXSYC_VRSRETAIN_VOL_ROBS,*,1,CH
                                                                                          04740600
                                                       volume retention group
                                                       volume retained Y/N
                                                                                          04742000
                                                                                          04743400
                                                       vol retained by set only
                                                                                          04744800
  ACXSYC VRSRETAIN END, *
                                                       End of RETAIN record
                                                                                          04746200
* End of ACXSYC data layout
                                                                                       * 04800000
```

EDGEXTSY: Extract data set symbols

EDGEXTSY provides the DFSORT symbol mapping for the DFSMSrmm extract data set that is produced during inventory management as follows:

```
********************* 00050000
                                                              * 00100000
   RMM Inventory Management Extract File Record
                                                              * 00150000
                                                             * 00200000
      DFSORT Symbol mapping
                                                              * 00250000
* z/OS DFSMSrmm V2R4
                                                             * 00350000
                                                             * 00400000
* PROPRIETARY V3 STATEMENT
* LICENSED MATERIALS - PROPERTY OF IBM
                                                             * 00450000
                                                              * 00500000
 "RESTRICTED MATERIALS OF IBM"
* 5650-Z0S
                                                               00600000
* COPYRIGHT IBM CORP. 1993,2019
                                                              * 00650000
                                                              * 00700000
* STATUS = HDZ2240
                                                              * 00750000
* END PROPRIETARY V3 STATEMENT
* SEE "z/OS DFSMSrmm Reporting" FOR FIELD DETAILS ON RMM RECORDS @LSC * 009000000 * SEE "DFSORT APG" FOR DETAILS OF USING SYMBOLS. * @LSC * 00950000
* 01062500
* $MAC(EDGEXTSY) COMP(DF186) PROD(RMM) : DFSORT sym for extract file * 01075000
                                                             * 01087500
* CHANGE ACTIVITY:
                                                              * 01100000
* $LG=RMM210 ,210,990901,CHK: DFSORT Symbols
* $K1=K160481,210,991007,MWW: New Extract Header Record
                                                         @LGA * 01133300
                                                         @K1A * 01166600
* $01=K161019,210,000118,CHK: Creating Program name symbols @01A * 01183300 * $02=0W44589,210,000522,BG: Correct DFSMSrmm reference comment @02A * 01189500 * $03=0W45430,210,000726,GB: RVSTACKED_VOLCOUNT printable format@03A * 01195800
```

```
* $07=0A02094,210,030115,WS : Report generator enhancements
                                                                             @07A * 01203300
 $$F=0A02206,1R3,030516,BDG: 3592 Model J support
$$G=0A07100,1R5,040130,WS: D/T3592 support new r
$MD=RMMV1R8,1R8,050718,AH: Universal Time, Coord
                                                                             @SFA * 01203500
                                   D/T3592 support new media types
Universal Time, Coordinated
                                                                             @SGA * 01203600
                                                                             @MDA * 01203800
  $ME=RMMV1R8,1R8,050510,BRB: V1R8 Enterprise Level Interface @MEA * 01204100 $MC=RMMV1R8,1R8,050502,GW: VRS Policy Management Simplification @MCA 01204300
  $K3=KFI0394,1R8,051206,MB
                                   GT 9999 read / write error value @K3A * 01204400
  $SH=0A13102,1R6,050531,WS
$SJ=0A17574,1R8,060728,WS
                                   3592 GEN 2 Support
                                                                             @SHA * 01204500
                                   Tape Encryption Support
                                                                             @SJA * 01204700
  $09=0A13370,1R6,050122,WS
$10=0A20224,1R8,070306,SD
                                                                             @09A * 01204800
                                   Media Information Support
                                   Duplicated line RVRBYSET
                                                                             @10A * 01204900
  $MS=V1R10, 1RA,070328,WS:
$MX=V1R10, 1RA,070412,SST:
$K4=K1A0516,1RA,070503,WS:
                                   Report extract tailoring
                                                                             @MSA * 01206200
                                   V1R10 Disposition DELETE
Spelling error correction
                                                                             @MXA * 01206500
                                                                             @K4A * 01206800
  $11=0A23266,1R7,071214,WS
                                   IRMM support
                                                                             @11A * 01207100
  $12=0A24896,1R8,080604,LM
                                   GT 9999 volume use count value
                                                                             @12A * 01207300
  $SK=0A22132,1R7,070831,WS: 3592-G3 Support
$NN=RMMACR,1RC,090402,BG: 8.1 Reporting for X
$SL=0A24025,1R8,080208,KHO: CA_BTE_API_support
                                                                             @SKA * 01207400
                                   8.1 Reporting for XPDTDROP
                                                                             @NNA * 01207800
                                                                             @SLA * 01208000
  $13=0A28930,1R8,090513,ZH :
                                   Enlarge block count fields
                                                                             @13A * 01208100
  $K5=K1C0555,1RC,090922,KD
                                   Correct blocksize comments
                                                                             @K5A * 01208300
                                   Add catalog status 'UNKNOWN' to DS @14A * 01208400
  $14=0A30472,1R9,090921,LM
                                   Volume HOLD attribute
5.2.2.2 Expiry date set by
  $00=RMMAS1 ,1RC,090925,WS : $08=RMMESB ,1RD,100505,AP:
                                                                             @00A * 01208500
                                                                             @08A * 01208800
  $OB=RMMLCD ,1RD,100510,BRB: 30 Last change details
                                                                            @OBA * 01209100
  $15=0A33070,1R9,100521,GB : 6-byte RVCONTNR_STV
$0F=RMMVEX ,1RD,100616,BRB: 5.2.4 CD VRSELEXCLUDE
                                                                             @15A * 01209200
                                                                             @OFA * 01209300
  $0G=RMMRM3 ,1RD,100726,WS : 5.2.5.3 RETENTIONMETHOD $0Q=RMMLRD ,2R1,110731,WS : 75.1.1 LASTREF extra days
                                                                             @OGA * 01209400
                                                                             @OQA * 01209500
  $0$=RMMMA0 ,2R1,110731,WS
$50=0A33958,1RC,101109,ZB
$0V=RMMEME ,2R1,110831,WS
                                 : 75.1.2 EXPDT_RETAINBY
                                                                             @OSA * 01209600
                                 $K6=K211127,2R1,120229,BRB: allow blanks in RXVEXRB
                                                                             @K6A * 01209900
  $M2=FP0882 ,2R2,141106,VT : $M5=FP1391 ,2R3,150610,VT :
                                   New RM(EX) values support(SM03105) @M2A * 01209910
                                   New Managmnt Class attr support
                                                                             @M5A * 01209920
  $M3=151046 ,2R3,161223,AVK:
$M7=214978 ,2R4,180313,VD:
                                   deftable setby constants
                                                                             @M3A *
                                 : RGE: Ensure type numeric for fields@M7A * 01209940
: RGE: Ensure type numeric for fields @K7A* 01209950
  $K7=258448, 2R4,180705,VD
                                   fixing FVT finding
                                                                              @K7A* 01209960
* $M7=261985, 2R4,180716,KG : Add EDM to report extract data set @M7A* 01209980
EXTRACT_RDW,1,4,BI
                                                   record descriptor word
                                                                                     01210100
     RDRDW,=,4,BI
                                                                                     01210200
     RHRDW,=,4,BI
                                                                              @K1A 01212700
    RKRDW, =, 4, BI
RORDW, =, 4, BI
                                                                                     01215300
                                                                                     01220400
     RPRDW,=,4,BI
                                                                                     01225500
     RRRDW, =, 4, BI
                                                                                     01230600
     RSRDW,=,4,BI
                                                                                     01235700
     RVRDW, =, 4, BI
                                                                                     01240800
                                                                              @04A
     RXRDW,=,4,BI
                                                                                     01243300
    EXTRACT_RDW_LEN,=,2,BI
RDRDW_LEN,=,2,BI
RHRDW_LEN,=,2,BI
                                                   record descriptor - length
                                                                                     01245900
                                                                                     01251000
                                                                              @K1A
                                                                                     01253500
       RKRDW_LEN,=,2,BI
RORDW_LEN,=,2,BI
                                                                                     01256100
                                                                                     01261200
       RPRDW_LEN,=,2,BI
                                                                                     01266300
       RRRDW_LEN,=,2,BI
RSRDW_LEN,=,2,BI
                                                                                     01271400
                                                                                     01276500
       RVRDW_LEN,=,2,BI
                                                                                     01281600
       RXRDW_LEN,=,2,BI
                                                                              @04A
                                                                                     01284100
    EXTRACT_RDW_SEG,*,2,BI
RDRDW_SEG,=,2,BI
                                                   record descriptor - segment 01286700
                                                                                     01291800
       RHRDW_SEG, =, 2, BI
RKRDW_SEG, =, 2, BI
                                                                              @K1A
                                                                                     01294300
                                                                                     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
       RXRDW_SEG, =, 2, BI
                                                                              @04A
                                                                                     01324900
*************************
                                                                                     01327500
* RMM Extract File records
                                                                                     01332600
                                                                                     01337700
************************
EXTRACT, *, 1286
                                                                                     01343800
***********************
                                                                                     01350000
                                                                                     01400000
* Common record prefix
                                                                                     01450000
************************
EXTRACT_PREFIX,=,4
                                                                                     01500000
  EXTRACT_TYPID,=,1,CH
                                                                                     01550000
  RDTYPE,=,1,CH
                                                                                     01556200
```

```
RHTYPE,=,1,CH
                                                                           @K1A 01559300
  RKTYPE,=,1,CH
                                                                                  01562400
  ROTYPE,=,1,CH
RPTYPE,=,1,CH
                                                                                  01568600
                                                                                  01574800
  RRTYPE,=,1,CH
RSTYPE,=,1,CH
                                                                                  01581000
                                                                                  01587200
  RVTYPE,=,1,CH
RXTYPE,=,1,CH
RDTYPEID,'D'
                                                                                  01593400
                                                                           @04A
                                                                                  01596700
                            TYPE 'D' - DATA SET RECORD
TYPE 'H' - HEADER RECORD
TYPE 'K' - VRS RECORD
TYPE 'O' - OWNER RECORD
TYPE 'P' - PRODUCT RECORD
TYPE 'R' - RACK RECORD
TYPE 'S' - BIN RECORD
TYPE 'V' - VOLUME RECORD
TYPE 'Y' - EYTENDED EXTRACT
                                                                                  01600000
    RHTYPEID, 'H'
RKTYPEID, 'K'
                                                                           @K1A
                                                                                  01625000
                                                                                  01650000
    ROTYPEID, '0'
                                                                                  01700000
    RPTYPEID, 'P'
RRTYPEID, 'R'
                                                                                  01750000
                                                                                  01800000
    RSTYPEID, 'S'
RVTYPEID, 'V'
                                                                                  01850000
    RVTYPEID,
                                                                                  01900000
                             TYPE 'X' - EXTENDED EXTRACT RECORD
    RXTYPEID, 'X'
                                                                                  01925000
*************************
                                                                                  01950000
* Start overlay area
                                                                                  02000000
********************
                                                                                  02050000
                                                                                  02100000
EXTRACT DATA,*
                                                                                  02150000
**************************
             This file maps the information produced for data set
* RDEXT:
                                                                                  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
  RDDSNAME, *, 44, CH
                           DATA SET NAME
                                                                                  02600000
************************
                                                                                  02650000
   Start of common fields:
                                                                                  02700000
  The common fields are in the same place in each record type in the report extract file. This allows common processing of
                                                                                  02750000
                                                                                  02800000
   these field across multiple record types.
                                                                                  02850000
*************************
                                                                                  02900000
                           CREATE DATE of data set record
CREATE TIME (HHMMSS) of data set
CREATE SYSTEM ID of data set record
  RDCRDATE, *, 10, CH
                                                                                  02950000
  RDCRTIME, *, 6, CH
                                                                                  03000000
  RDCRSID, *, 8, CH
                                                                                  03050000
                          LAST CHANGE DATE of data set record
LAST CHANGE TIME (HHMMSS) of data set record
LAST CHANGE USER ID of data set record
  RDLCDATE, *, 10, CH
                                                                                  03100000
  RDLCTIME, *, 6, CH
                                                                                  03150000
                                                                                  03200000
  RDLCUID, *, 8, CH
  RDLCSID, *, 8, CH
                           LAST CHANGE SYSTEM ID of data set record
                                                                                  03250000
                                                                                  03300000
************************
                                                                                  03350000
 End of common fields
                                                                                  03400000
************************
  RDVOLSER, *, 6, CH
                           VOLUME SERIAL NUMBER
                                                                                  03450000
                           RESERVED WAS DATA SET SEQUENCE NUMBER CREATING DRIVE ADDRESS
  SKIP,4
                                                                            @LLC 03500000
  RDUNITAD, *, 4, CH
                                                                                  03550000
  RDRECFM, *, 4, CH
                           RECORD FORMAT
VOLUME SEQUENCE NUMBER
                                                                                  03600000
  RDVOLSEQ, *, 4, ZD
                                                                            @M7C 03650000
  RDLRECL,*,6,CH
RDBLKSZ,*,6,CH
RDBLKCNT_OLD,*,8,CH
                           LOGICAL RECORD LENGTH
                                                                                  03700000
                           PHYSICAL BLOCK SIZE
                                                                                  03750000
                           BLOCK COUNT IF <=99999999
                                                                           @13C 03800000
                           DATA SET OWNER
SECURITY LEVEL - SHORT
SECURITY LEVEL - LONG
  RDOWNDSN, *, 8, CH
                                                                                  03850000
  RDSECLEV, *, 8, CH
                                                                                  03900000
  RDSECLNG, *, 30, CH
                                                                                  03950000
  RDCOMP,*,1,CH
RDYES,'Y'
                           COMPACTION USED
                                                                                  04000000
                             YES
                                                                                  04050000
    RDNO, N
                             NO
                                                                                  04100000
  RDLRDDAT, *, 10, CH
                           DATE DATA SET LAST READ
                                                                                  04150000
                           DATE DATA SET LAST WRITTEN
  RDLWTDAT, *, 10, CH
                                                                                  04200000
  RDMCNAME, *, 8, CH
                           SMS MANAGEMENT CLASS
                                                                                  04250000
                           VRS MANAGEMENT VALUE
  RDVRSVAL, *, 8, CH
                                                                                  04300000
  RDSGNAME, *, 8, CH
                           SMS STORAGE GROUP NAME SMS STORAGE CLASS NAME
                                                                                  04350000
  RDSCNAME, *, 8, CH
                                                                                  04400000
  RDDCNAME, *, 8, CH
                           SMS DATA CLASS NAME
                                                                                  04450000
                           CREATING JOB NAME
MATCHING VRS TYPE FLAG
  RDCRTJBN, *, 8, CH
                                                                                  04500000
 RDVRSTYP,*,1,CH
RDVD,'D'
RDVS,'S'
RDVV,'V'
RDVM,'M'
RDVC,'C'
                                                                                  04550000
                             DATASET
                                                                                  04600000
                             SMSMC
                                                                                  04650000
                             VRSMV
                                                                                  04700000
                           DATASET AND VRSMV
DATASET AND SMSMC
MATCHING VRS NAME
                                                                                  04750000
                                                                                  04800000
  RDVRSNAM, *, 44, CH
                                                                                  04850000
  RDVRSJBN, *, 8, CH
                           MATCHING VRS JOB NAME MASK
                                                                                  04900000
  RDRETDAT, *, 10, CH
                           RETENTION DATE
                                                                                  04950000
  RDSTEPNM, *, 8, CH
                           CREATING STEP NAME
CREATING DD NAME
                                                                                  05000000
                                                                                  05050000
  RDDDNAME, *, 8, CH
*********************
                                                                                  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 *

by the number of blocks divided by 1024. @K5C
                                                                                     05400000
                                                                                     05450000
********************
                                                                                     05500000
  RDDSSIZE,*,10,FS APPROX. SIZE OF FILE KBYTES
RDABEND,*,1,CH DSET CLOSED BY ABEND
RDYES,'Y' YES
RDNO,'N' NO
                                                                                     05550000
                                                                                     05600000
    RDYES, 'Y
RDNO, 'N'
                                                                                     05650000
                              NO
                                                                                     05700000
**********************
                                                                                     05731800
05763600
                                                                                     05795400
         cataloged after the data set is recorded in DFSMSrmm.
                                                                                     05827200
                                                                            *@14C
                                                                                     05859000
         Set to 'N' when it was cataloged and now is not.
                                                                                     05890800
         Set to 'U'/Unknown when it was never cataloged or
                                                                            *@14A
                                                                                     05922600
         uncataloged.
                                                                                     05954400
                                                                            *@14A
*****************
                                                                                     05986200
                   CATALOGED Y/N/U
                                                                                     06018000
  RDCAT, *, 1, CH
 RDYES, 'Y'
RDYES, 'Y'
RDNO, 'N'
RDUNKNOWN, 'U'
RDVRSR,*,1,CH
RDYES, 'Y'
RDYES, 'Y'
RDNO, 'N'
RDVRSR,*,1,CH
RETAINED BY VRS
RDYES, 'Y'
RDNO, 'N'
RDNO, 'N'
RDNO, 'N'
RDNO, 'N'
                                                                                     06050000
                                                                                     06100000
                                                                              @14A
                                                                                     06125000
                                                                                     06150000
                                                                                     06200000
  RDNO, N' NO

RDDELETED,*,1,CH Deleted by Disposition Yes RDNO,'N' No
                                                                                     06250000
                                                                              AXM
                                                                                     06275000
                                                                              @MXA
                                                                                     06300000
                                                                              AXM®
                                                                                     06325000
  SKIP,2
                            Reserved
                                                                              @MXC
                                                                                     06350000
  SKIP,4
                            RESERVED WAS LABEL NUMBER LABEL=(XX,NN)
                                                                              @LLC
                                                                                     06375000
*************************
                                                                                     06400000
* Primary VRS subchain name:
                                                                                     06450000
                         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. *
                                                                                     06500000
                                                                                     06550000
                                                                                     06600000
********************
                                                                                     06650000
  RDVRSSCH, *, 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 where a secondary VRS also matches. The retaining VRS subchain NAME in this
                                                                                     06900000
                                                                                     06950000
                                                                                     07000000
                         matching VRS is set if it is used to retain the data set.
                                                                                     07050000
                                                                                     07100000
*******************
                                                                                     07150000
  RD2VNME,*,8,CH Secondary VRS name mask
RD2VJBN,*,8,CH Secondary VRS jobname mask
RD2VSCH,*,8,CH Secondary VRS subchain NAME
RD2VXDS,*,10,CH Secondary VRS subchain startdate
RDT0TAL_BLKCNT_OLD,*,10,CH Total blkcnt across all ds volumes
                                                                                     07200000
                                                                                     07250000
                                                                                     07300000
                                                                                     07350000
                                                                              @13C
                                                                                     07355500
  RDPERCENT,*,3,ZD Percentage of volume used by data set RDCPGM,*,8,CH Creating program name
                                                                              @M7C
                                                                                     07361000
                           Creating program name
Last used program name
Last used job name
                                                                              @01A
                                                                                     07366500
  RDLPGM, *, 8, CH
                                                                              @01A
                                                                                     07372000
  RDLJOB, *, 8, CH
RDLSTEP, *, 8, CH
                                                                                     07377500
                                                                              @01A
                           Last used step name
                                                                              @01A
                                                                                     07383000
  RDLDDNM, *, 8, CH
RDLDEVN, *, 4, CH
                            Last used DD name
                                                                              @01A
                                                                                     07388500
                            Last used device name
                                                                                     07394000
                                                                              @01A
  RDDSNSEQ, *, 5, ZD
                                                                              @М7С
                            Data set sequence number New
                                                                                     07396000
                                                                              @K7C
  RDLABNO, *, 5, ZD
                            Label number Label=(xx,ll) New
                                                                                     07398000
  RDEXPDT, *, 10, CH
                            Data set expiration date
                                                                              A809
                                                                                     07398500
  RDEXPDTO, *, 10, CH
                            Original d/s expiration date
                                                                              A809
                                                                                     07399000
  RDDEFRET, *, 1, CH
RDFACTOR, *, 2, CH
RDFACTOR_MB, 'MB'
RDFACTOR_GB, 'GB'
RDFACTOR_TB, 'TB'
                            Default RETPD used
                                                                              008A
                                                                                     07399500
                                                                              @SKA
                                                                                     07406700
                            Space/size factor
                                                                              @SKA
                                                                                     07413900
                                                                              @SKA
                                                                                     07421100
                                                                              @SKA
                                                                                     07428300
  RDSIZE,*,10,ZD
RDBESKEY,*,10,ZD
                            Data set size, factored, MB, GB or TB
                                                                              @SKA
                                                                                     07435500
                            BES key index
                                                                              @M7C
                                                                                     07439100
  RDBLKCNT, *, 20, ZD
                            Block count
                                                                              @13A
                                                                                     07440300
  RDTOTAL_BLKCNT,*,20,ZD_ Total block count across all volumes
                                                                              @13A
                                                                                     07441500
  RDIOTAL_BLKCNT,*,20,2D Total b.
RDESB,*,10,CH Expdt set
RDESB_UNKNOWN,'
RDESB_CMD,'CMD'
RDESB_CMD_DEF,'CMD_DEF'
RDESB_CMD_VOLCAT,'CMD_VOLCAT'
RDESB_OCE_JFCB,'OCE_JFCB'
RDESB_OCE_EXIT,'OCE_EXIT'
RDESB_OCE_DEF,'OCE_DEF'
RDESB_OCE_MAX,'OCE_MAX'
                            Expdt set by
                                                                              A809
                                                                                     07441900
                                                                              A809
                                                                                     07442300
                                                                                     07442700
                                                                              008A
                                                                              A809
                                                                                     07443100
                                                                                     07443500
                                                                              A809
                                                                                     07443900
                                                                              A809
                                                                              A800
                                                                                     07444300
                                                                              A80
                                                                                     07444700
                                                                              @08A
                                                                                     07445100
```

```
@08A 07445500
      RDESB_OCE_VOLCAT, 'OCE_VOLCAT'
     RDESB_UCE_VOLCAT, 'OCE_VOLCAT'
RDESB_LCS, 'LCS'
RDESB_LCS_DEF, 'LCS_DEF'
RDESB_TVEXTPURGE, 'TVEXTPURGE'
RDESB_CNVT, 'CNVT'
RDESB_EXPORT, 'EXPORT'
RDESB_LASTREF, 'LASTREF'
RDESB_OCE_MC, 'OCE_MC'
RDESB_CATRETPD, 'CATRETPD'
RDESB_CATIG_DAYS'
                                                                                                      A809
                                                                                                               07445900
                                                                                                      A809
                                                                                                               07446300
                                                                                                      008A
                                                                                                               07446700
                                                                                                      A800
                                                                                                               07447100
                                                                                                      A809
                                                                                                               07447500
                                                                                                      AQO9
                                                                                                               07447700
                                                                                                      @OVA
                                                                                                               07447800
                                                                                                      @M2A
                                                                                                               07447810
      RDESB_CATLG_DAYS, 'CATLG_DAYS'
                                                                                                      @M2A
                                                                                                               07447820
      RDESB_DEFTABLE, 'DEFTABLE'
                                                                                                      @МЗА
  RDUCDATE,*,10,CH
RDUCTIME,*,6,CH
RDVEX,*,1,CH
RDCOMP_RAT,*,6,CH
RD
                                                                                                      @OBA
                                                                                                               07447900
                                                                                                               07448300
                                                                                                      @OBA
                                                                                                      @OFA
                                                                                                               07448500
                                    Compression ratio for dataset
                                                                                                      @SOA
                                                                                                               07448700
   RDPHYS_SIZE,*,10,CH Physical size of dataset (factored)
                                                                                                      @SOA
                                                                                                               07448900
                                   LASTREF extra days
   RDLRED, *, 5, ZD
                                                                                                      @K7C
                                                                                                               07449300
***********************
                                                                                                               07449500
* END OF REPORT EXTRACT DATA SET NAME RECORD
                                                                                                               07450000
                                                                                                               07500000
***********************
                                   END OF RDEXT
                                                                                                               07550000
                                                                                                               07551300
                                                                                                               07552600
***********************
                 This macro maps the information in the extract file
                                                                                                               07553900
                  header records.
                                                                                                               07555200
                  In this record the date format depends on the DATEFORM \star
                                                                                                               07556500
                  selected by EDGHSKP execution parameter or the parmlib \,\star\,
                                                                                                               07557800
                                                                                                               07559100
                  specified value.
**********************
                                                                                                               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 these field across multiple record types.
                                                                                                               07568200
                                                                                                               07569500
**********************
                                                                                                               07570800
   RHCRDATE,*,10,CH CREATE DATE of header record CREATE TIME HHMMSS of header record
                                                                                                    @K1A
                                                                                                               07572100
                                                                                                               07573400
                                                                                                    @K1A
                                     CREATE SYSTEM ID of header record
   RHCRSID, *, 8, CH
                                                                                                    @K1A
                                                                                                               07574700
   SKIP, 10
                                     RESERVED
                                                                                                    @K1A
                                                                                                               07576000
   SKIP,6
                                     RESERVED
                                                                                                     @K1A
                                                                                                               07577300
   SKIP,8
                                     RESERVED
                                                                                                     @K1A
                                                                                                               07578600
                                                                                                               07579900
   SKIP.8
                                    RESERVED
                                                                                                               07581200
************************
                                                                                                               07582500
* End of common fields
                                                                                                               07583800
***********************
  RHDATEFORM, \star, 1, CH Format of all dates in the extract file @K1A RHDATEFORM_NOTSET, ' ' @K1A
                                                                                                               07585100
                                                                                                               07586400
      RHDATEFORM_EUROPEAN, 'E'
RHDATEFORM_AMERICAN, 'A'
                                                                                                     @K1A
                                                                                                               07587700
                                                                                                     @K1A
                                                                                                               07589000
      RHDATEFORM_ISO,'I'
RHDATEFORM_JULIAN,'J'
                                                                                                     @K1A
                                                                                                               07590300
                                                                                                     @K1A
                                                                                                               07591600
   RHEXTENDEDBIN, *, 1, CH Extendedbin Enabled
                                                                                                     @06A
                                                                                                               07592400
   RHTZ,*,9,CH
RHTZ_NAME,*,4,CH
                                    Time zone Offset
                                                                                                     @MSC
                                                                                                               07592800
                                                                                                               07593200
                                    Time zone Name or blank
                                                                                                     \Delta2M\Omega
   SKIP,86
                                   RESERVED
                                                                                                     @MSC
                                                                                                               07593600
******
                                                                                                               07594200
                                                                                                               07595500
* END OF REPORT EXTRACT HEADER RECORD
*********************
                                                                                                               07596800
                                   END OF RHEXT
RHRCEND.*
                                                                                                    @K1A
                                                                                                               07598100
                                                                                                               07600000
**********************
                                                                                                               07650000
\star RKEXT: This file maps the information produced for VRS \star
                                                                                                               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'
RKTYPDSN, 'D'
RKTYPNAM, 'N'
                                     VOLUME VRS
                                                                                                               08100000
                                        DATA SET VRS
                                                                                                               08150000
                                        NAME VRS
                                                                                                               08200000
   SKIP,1
                                     RESERVED
                                                                                                               08250000
                                     DATA SET NAME MASK
   RKDSNAME, *, 44, CH
                                                                                                               08300000
                                     VRS NAME
   RKNAME, =, 8, CH
                                                                                                               08350000
   RKVOLSER,=,6,CH
                                     VOLUME SERIAL MASK
                                                                                                               08400000
                                     RESERVED
   SKTP.38
                                                                                                               08450000
                                     DATA SET/VOLUME MASK
   RKGENKEY,*,1,CH
RKYES,'Y'
                                                                                                               08500000
                                                                                                               08550000
                                     YES
```

```
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
  RKCRDATE,*,10,CH
RKCRTIME,*,6,CH
                          CREATE DATE of VRS record CREATE TIME (HHMMSS) of VRS record
                                                                               08950000
                                                                               09000000
                          CREATE SYSTEM ID of VRS record LAST CHANGE DATE of VRS record
  RKCRSID, *, 8, CH
                                                                               09050000
  RKLCDATE, *, 10, CH
                                                                               09100000
  RKLCTIME, *, 6, CH
                          LAST CHANGE TIME (HHMMSS) of VRS record
                                                                               09150000
  RKLCUID, *, 8, CH
                          LAST CHANGE USER ID of VRS record
                                                                               09200000
                          LAST CHANGE SYSTEM ID of VRS record
                                                                               09250000
  RKLCSID, *, 8, CH
************************
                                                                               09300000
   End of common fields
                                                                               09350000
                                                                               09400000
************************
  RKCRTJBN, *, 8, CH
                          JOBNAME MASK
                                                                               09450000
  RKRETNC,*,1,CH
RKYES,'Y'
RKNO,'N'
                          RETAIN BASED ON NUMBER OF CYCLES
                                                                               09500000
                            YES
                                                                               09550000
                                                                               09600000
                            NO
  RKRETND, *, 1, CH
                          RETAIN BASED ON NUMBER OF ELAPSED DAYS
                                                                               09650000
    RKYES, 'Y
RKNO, 'N'
                                                                               09700000
                            YES
                                                                               09750000
                            NO
  RKRETNR, *, 1, CH
                          RETAIN BASED ON NUMBER OF DAYS UNREFERENCED
                                                                               09800000
    RKYES, 'Y
RKNO, 'N'
                            YES
                                                                               09850000
                                                                               09900000
  RKRETNW,*,1,CH
RKYES,'Y'
RKNO,'N'
                          RETAIN ONLY WHILE DATA SET IS CATALOGED
                                                                               09950000
                            YES
                                                                               10000000
                            NO
                                                                               10050000
 RKRETNX,*,1,CH
RKYES,'Y'
                          RETAIN UNTIL EXPIRED
                                                                               10100000
                            YES
                                                                               10150000
    RKNO, 'N'
                                                                               10200000
                            NO
  RKRETNXD,*,1,CH
RKYES,'Y'
RKNO,'N'
                          RETAIN BASED ON EXTRA DAYS SINCE VRS MATCHED
                                                                               10250000
                            YES
                                                                               10300000
                                                                               10350000
  RKRETNCD, *, 1, CH
                          RETAIN BASED ON BYDAYSCYCLE (ALL COPIES ON
                                                                               10400000
                                                                               10450000
                             1 DAY ARE TREATED AS A CYCLE)
    RKYES, 'Y'
                            YES
                                                                               10500000
                                                                               10550000
  RKRETAND, *, 1, CH
                          RETENTION MUST BE ANDED WITH THE NEXT VRS IN
                                                                               10600000
                             THE CHAIN
                                                                               10650000
    RKYES, 'Y'
                            YES
                                                                               10700000
                                                                               10750000
                            NO
  SKIP,5
                          RESERVED
                                                                               10800000
  RKDSNG,*,1,CH
RKG,'Y'
                          DATA SET NAME MASK IS FOR A GDG
                                                                               10850000
                                                                               10900000
                            GDG
    RKPG, 'P'
RKNG, 'N'
                            PSEUDO-GDG
                                                                               10950000
                            NOGDG
                                                                               11000000
  RKLOCTYP,*,1,CH
RKAUT,'A'
RKMAN,'M'
RKSTR,'S'
                          LOCATION TYPE
                                                                               11050000
                            AUTO
                                                                               11100000
                            MANUAL
                                                                               11150000
                            STORE
                                                                               11200000
    RKBLK,
                            BLANK
                                                                               11250000
  RKLOC, *, 8, CH
                          NAME OF LOCATION TO BE STORED
                                                                               11300000
  RKNEXT, *, 8, CH
RKCOUNT, *, 5, ZD
                          NAME OF NEXT VRS IN THE CHAIN
                                                                               11350000
                          VITAL RECORD COUNT (NUMBER OF CYCLES OR @M7C 11400000
ELAPSED DAYS OR VOLUMES TO BE KEPT IN TOTAL) 11450000
                          STORE KEEP NUMBER (NUMBER OF CYCLES OR DAYS OR
  RKSTNUM, *, 5, ZD
                                                                               11500000
                             VOLUMES TO BE KEPT IN STORE)
                                                                               11550000
  RKDELAY, *, 5, ZD
                          NUMBER OF ELAPSED DAYS DELAY BEFORE BEING @M7C
                                                                               11600000
                             SELECTED FOR THE FIRST LOCATION
                                                                               11650000
  RKOWNER, *, 8, CH
                          VITAL RECORD OWNER
                                                                               11700000
  RKDELDAT, *, 10, CH
                          DATE THE VRS IS TO BE DELETED BY RMM
                                                                               11750000
                          DESCRIPTION
  RKDESC, *, 30, CH
                                                                               11800000
  RKRELOPT, *, 8, CH
                          VRS RELEASE OPTIONS
                                                                               11850000
  RKRELIXD,=,1,CH
RKYES,'Y'
RKNO,'N'
                          IGNORE EXPDT
                                                                               11900000
                            YES
                                                                               11950000
                                                                               12000000
 RKRELSI,*,1,CH
RKYES,'Y'
RKNO,'N'
                          SCRATCH IMMEDIATE
                                                                               12050000
                            YES
                                                                               12100000
                            NO
                                                                               12150000
  SKIP,6
                          RESERVED
                                                                               12200000
  RKLRDATE, *, 10, CH
                          Last Reference Date
                                                                         @MCA
                                                                               12216600
                          Last Reference Time
Last "user" change date
Last "user" change time
                                                                         @MCA
  RKLRTIME, *, 6, CH
                                                                               12233200
  RKUCDATE, *, 10, CH
                                                                         @OBA
                                                                               12238800
  RKUCTIME, *, 6, CH
                                                                         @OBA
                                                                               12244400
*************************
                                                                               12250000
* END OF REPORT EXTRACT VRS RECORD
                                                                               12300000
***********************
                                                                               12350000
  RKRCEND, *
                          END OF RKEXT
                                                                               12400000
                                                                               12450000
```

```
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
            specified value.
                                                                           12750000
POSITION, EXTRACT DATA
                                               start at EXTRACT DATA
                                                                           12850000
  SKTP.3
                       RESERVED
                                                                           12900000
  SKIP,3
ROOWNER,*,8,CH
                        OWNER ID
                                                                           12950000
  SKIP,36
                        RESERVED
                                                                           13000000
***********************
                                                                         13050000
   Start of common fields:
                                                                           13100000
  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
13200000
13250000
ROCRDATE, *, 10, CH CREATE DATE of owner record
ROCRSID, *, 8, CH CREATE SYSTEM ID of owner record
ROLCDATE, *, 10, CH LAST CHANGE DATE of owner record
ROLCTIME, *, 6, CH LAST CHANGE TIME (HHMMSS) of owner record
ROLCUID, *, 8, CH LAST CHANGE USER ID of owner record
ROLCSID, *, 8, CH LAST CHANGE SYSTEM ID of owner record
ROLCSID, *, 8, CH LAST CHANGE SYSTEM ID of owner record
                                                                           13350000
                                                                           13400000
                                                                           13450000
                                                                           13500000
                                                                           13550000
                                                                           13600000
                                                                           13650000
13750000
  End of common fields
*********************
                                                                           13800000
                        OWNER LAST NAME
OWNER FIRST NAME
  ROOWNSUR, *, 20, CH
                                                                           13850000
  ROOWNFST, *, 20, CH
                                                                           13900000
  ROOWNDEP, *, 40, CH
                         OWNER DEPARTMENT
                                                                           13950000
  ROOWNAD1, *, 40, CH
                         OWNER ADDRESS LINE 1
                                                                           14000000
  ROOWNAD2, *, 40, CH
ROOWNAD3, *, 40, CH
                         OWNER ADDRESS LINE 2
                                                                           14050000
                        OWNER ADDRESS LINE 3
OWNER INTERNAL TELEPHONE NUMBER
                                                                           14100000
  ROOWNTIN, *, 8, CH
                                                                           14150000
  ROOWNTEX, *, 20, CH
                         OWNER EXTERNAL TELEPHONE NUMBER
                                                                           14200000
                        OWNER ELECTRONIC USERID
OWNER ELECTRONIC NODE NAME
TOTAL NUMBER OF OWNED VOLUMES
  ROOWNUID, *, 8, CH
                                                                           14250000
  ROOWNNOD, *, 8, CH
                                                                           14300000
  ROOWNVOL, *, 6, ZD
                                                                     @M7C 14350000
* END OF REPORT EXTRACT OWNER RECORD
                                                                           14450000
******************
                                                                           14500000
                     END OF ROEXT
                                                                           14550000
                                                                           14600000
\star RPEXT: This file maps the information produced for product \star
                                                                           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
                                                                           14900000
            specified value.
*********************
                                                                           14950000
                                               start at EXTRACT_DATA
POSITION, EXTRACT_DATA
                                                                           15000000
  SKIP,3
                         RESERVED
                                                                           15050000
 RPPPNUM,*,8,CH
RPVER,*,6,CH
                        PRODUCT NUMBER (NNNN-CCC)
                                                                           15100000
                        VERSION/RELEASE/MOD NUMBER
                                                                           15150000
                        (vvrrmm) where vv - version, rr - release,
                                                                           15200000
                        mm - modification level
                                                                           15250000
                        RESERVED
                                                                           15300000
                                                                           15350000
*********************
   Start of common fields:
                                                                           15400000
  The common fields are in the same place in each record type
                                                                           15450000
15500000
                                                                           15550000
                                                                           15600000
 RPCRDATE,*,10,CH CREATE DATE of product record
RPCRSID,*,8,CH CREATE SYSTEM ID of product record
RPLCDATE,*,10,CH LAST CHANGE DATE of product record
RPLCTIME,*,6,CH LAST CHANGE TIME (HHMMSS) of product record
RPLCUID,*,8,CH LAST CHANGE USER ID of product record
RPLCSID.*.8.CH LAST CHANGE SYSTEM ID of product record
RPLCSID.*.8.CH LAST CHANGE SYSTEM ID of product record
                                                                           15650000
                                                                           15700000
                                                                           15750000
                                                                           15800000
                                                                           15850000
                                                                           15900000
  RPLCSID, *, 8, CH
                        LAST CHANGE SYSTEM ID of product record
                                                                           15950000
*******************
                                                                           16000000
                                                                           16050000
* End of common fields
**********************
                                                                           16100000
 RPPPOWN,*,8,CH PRODUCT OWNER ID
RPPPNAME,*,30,CH PRODUCT NAME
RPPPDESC,*,30,CH PRODUCT DESCRIPTION
RPVOLNO,*,4,CH NUMBER OF PRODUCT VOLUME:
RPUCDATE,*,10,CH Last "user" change date
RPUCTIME,*,6,CH Last "user" change time
                                                                           16150000
                                                                           16200000
                                                                           16250000
                        NUMBER OF PRODUCT VOLUMES
                                                                           16300000
                                                                    @OBA 16316600
                                                                    @OBA 16333200
```

```
*********************
                                                                    16350000
* END OF REPORT EXTRACT PRODUCT RECORD
                                                                    16400000
***********************
                                                                    16450000
                                                                    16500000
RPRCEND.*
                    END OF RPEXT
                                                                    16550000
**********************
                                                                    16600000
           This file maps the information produced for rack number *
                                                                    16650000
           records in the RMM report extract file.
In this record the date format depends on the DATEFORM
                                                                    16700000
                                                                    16750000
           selected by EDGHSKP execution parameter or the parmlib
                                                                    16800000
           specified value.
                                                                    16850000
************************
                                                                    16900000
POSITION, EXTRACT_DATA
RRTYPE2, *, 1, CH
                                           start at EXTRACT_DATA
                                                                    16950000
                 RACK RECORD ID
                                                                    17000000
                      EMPTY RACK
   RRTYPEE, 'E'
RRTYPEF, 'F'
                                                                    17050000
                        FREE/SCRATCH RACK
                                                                    17100000
   RRTYPEU, 'U'
                        IN USE RACK
                                                                    17150000
 SKIP,2
RRRACK,*,6,CH
                      RESERVED
                                                                    17200000
                                                                    17250000
                      RACK NUMBER
 RRNAME, *, 8, CH
                      MEDIA NAME
                                                                    17300000
   RRUNIT, =, 8, CH
                      Old name for RRNAME field
                                                                    17350000
                      RESERVED
                                                                    17400000
 SKIP,30
                                                                    17450000
************************
                                                                    17500000
  Start of common fields:
  The common fields are in the same place in each record type
                                                                    17550000
  in the report extract file. This allows common processing of these field across multiple record types.
                                                                    17600000
                                                                    17650000
*******************
                                                                    17700000
 RRCRDATE, *, 10, CH CREATE DATE of rack record
                                                                    17750000
 RRCRTIME,*,6,Ch
RRCRSID,*,8,CH
RRLCDATE,*,10,CH
RRLCTIME,*,6,CH
PRLCUID,*,8,CH
LAST CHANGE TIME (HHMMS5)
LAST CHANGE USER ID of rack record
LAST CHANGE SYSTEM ID of rack record
LAST CHANGE SYSTEM ID of rack record
                                                                    17800000
                                                                    17850000
                                                                    17900000
                      LAST CHANGE TIME (HHMMSS) of rack record LAST CHANGE USER ID of rack record
                                                                    17950000
                                                                    18000000
                                                                    18050000
********************
                                                                    18100000
* End of common fields
                                                                    18150000
**************************
                                                                    18200000
 RRVOLSER,*,6,CH ASSIGNED VOLUME SERIAL NUMBER RRUCDATE,*,10,CH Last "user" change date RRUCTIME,*,6,CH Last "user" change time
                                                                    18250000
                                                                    18266600
                                                               @OBA
                                                                    18283200
************************
                                                                    18300000
* END OF REPORT EXTRACT RACK NUMBER RECORD
                                                                    18350000
**************************
                                                                    18400000
                     END OF RREXT
                                                                    18450000
                                                                    18500000
                                                                    18550000
************************
* RSEXT:
          This file maps the information produced for bin number *
                                                                    18600000
           records in the RMM report extract file.
                                                                    18650000
           In this record the date format depends on the DATEFORM
                                                                    18700000
           selected by EDGHSKP execution parameter or the parmlib
                                                                    18750000
           specified value.
                                                                    18800000
**********************
                                                                    18850000
POSITION, EXTRACT_DATA
                                           start at EXTRACT_DATA
                                                                    18900000
 RSTYPE2,*,1,CH
                      BIN RECORD ID
                                                                    18950000
   RSTYPER, 'E'
RSTYPES, 'U'
                     EMPTY BIN
                                                                    19000000
 RSTYPES, 'U'
RSRMSTID,*,8,CH
                        ASSIGNED BIN
                                                                    19050000
                     STORAGE LOCATION NAME
                                                                    19100000
                      RESERVED
                                                                    19150000
  SKIP,1
                                                                    19200000
 RSBINNO, *, 6, CH
                      BIN NUMBER
                      BIN MEDIA NAME
                                                                    19250000
 RSBMEDN, *, 8, CH
 SKIP.23
                      RESERVED
                                                                    19300000
************************
                                                                    19350000
                                                                    19400000
  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
                                                                    19450000
                                                                    19500000
  these field across multiple record types.
                                                                    19550000
***********************
                                                                    19600000
                      CREATE DATE of bin record
CREATE TIME (HHMMSS) of bin record
CREATE SYSTEM ID of bin record
 RSCRDATE, *, 10, CH
                                                                    19650000
 RSCRTIME, *, 6, CH
RSCRSID, *, 8, CH
                                                                    19700000
                                                                    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
                      LAST CHANGE SYSTEM ID of bin record
                                                                    19950000
 RSLCSID, *, 8, CH
*********************
                                                                    20000000
  End of common fields
                                                                    20050000
20100000
                                                                    20150000
                                                                    20162500
  RSMOVINGOUTVOL,*,6,CH Moving-Out Volume
                                                               @SCA
                                                                    20175000
 RSOLDVOLUME, *, 6, CH Old Volume
                                                               @SCA
                                                                    20187500
```

```
RSUCDATE,*,10,CH Last "user" change date RSUCTIME,*,6,CH Last "user" change time
                                                                   @OBA
                                                                         20191600
                                                                         20195700
************************
                                                                         20200000
* END OF REPORT EXTRACT STORAGE LOCATION BIN RECORD
                                                                         20250000
********************
                                                                         20300000
                       END OF RSEXT
                                                                         20350000
                                                                         20400000
***********************
                                                                         20450000
* RVFXT:
           This file maps the information produced for volume
                                                                         20500000
            records in the RMM report extract file.
                                                                         20550000
            In this record the date format depends on the DATEFORM
                                                                         20600000
            selected by EDGHSKP execution parameter or the parmlib
                                                                         20650000
            specified value.
                                                                         20700000
                                                                         20750000
********************
POSITION, EXTRACT_DATA
                                              start at EXTRACT_DATA
                                                                         20800000
  SKIP,3
                        RESERVED
                                                                         20850000
 SKIP,3
RVVOLSER,*,6,CH
RVPVOL,*,6,CH
RVNVOL,*,6,CH
                        VOLUME SERIAL NUMBER
                                                                         20900000
                        PREVIOUS VOLUME IN SEQUENCE
                                                                         20950000
                        NEXT VOLUME IN SEQUENCE
                                                                         21000000
  SKIP.6
                       RESERVED
                                                                         21050000
************************
                                                                         21100000
\star RVMDMVID: Is a unique token assigned to every volume and every \star
                                                                         21150000
           data set in a multi-volume set.
                                                                         21200000
                                                                         21250000
*********************
 RVMDMVID,*,8,CH MULTI-DSET MULT-VOL ID
                                                                         21300000
  SKIP,12
                        RESERVED
                                                                         21350000
***********************
                                                                         21400000
   Start of common fields:
                                                                         21450000
  The common fields are in the same place in each record type
                                                                         21500000
  in the report extract file. This allows common processing of
                                                                         21550000
  these field across multiple record types.
                                                                         21600000
**************************
                                                                         21650000
 RVCRDATE,*,10,CH
RVCRTIME,*,6,CH
RVCRSID,*,8,CH
RVLCDATE,*,10,CH
RVLCTIME,*,6,CH
RVLCUID,*,8,CH
                        CREATE DATE of volume record
CREATE TIME HHMMSS of volume record
CREATE SYSTEM ID of volume record
                                                                         21700000
                                                                         21750000
                                                                         21800000
                       LAST CHANGE DATE of volume record
LAST CHANGE TIME HHMMSS of volume record
                                                                         21850000
                                                                         21900000
                        LAST CHANGE USER ID of volume record
                                                                         21950000
  RVLCUID, *, 8, CH
  RVLCSID, *, 8, CH
                        LAST CHANGE SYSTEM ID of volume record
                                                                         22000000
********************
                                                                         22050000
 End of common fields
                                                                         22100000
                                                                         22150000
************************
                        EXPIRATION DATE - original EXPIRATION DATE - current
  RVEXPDTO, *, 10, CH
                                                                         22200000
  RVEXPDT, *, 10, CH
                                                                         22250000
                        RECORDING DENSITY
  RVDEN, *, 4, CH
                                                                         22300000
 RVCOMP,*,1,CH
RVYES,'Y'
RVNO,'N'
                        COMPACTION USED
                                                                         22350000
                          YES
                                                                         22400000
                          NO
                                                                         22450000
                                                                    @LLC 22500000
@SKC 22550000
  SKIP,4
                        RESERVED WAS NO DSN ON VOLUME
  RVTUSE, *, 10, FS
                        TAPE USAGE IN KBYTES
                                                                    @12C 22600000
@LLC 22650000
  RVUSE_OLD, *, 4, CH
                        VOLUME USE COUNT <=9999
                        RESERVED WAS LABNO
  SKIP,4
  RVSTORID,*,8,CH
RVSHL,'SHELF'
RVLOC,'LOCAL'
                        CURRENT LOCATION NAME
                                                                         22700000
                          SHELF
                                                                         22750000
                          LOCAL
                                                                         22800000
   RVREM, 'REMOTE'
CAN ALSO BE:
                          REMOTE
                                                                         22850000
                                                                         22900000
      DISTANT INSTALLATION DEFINED STORE
                                                                         22950000
      SMS-DEFINED LIBRARY NAME
                                                                         23000000
 RVDEST,*,8,CH
RVLOC,'LOCAL'
RVREM,'REMOTE'
                        DESTINATION NAME
                                                                         23050000
                          LOCAL
                                                                         23100000
                          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 * storage location, RVSTBIN contains the current bin
                                                                         23400000
                                                                         23450000
               number and RVOBIN the bin number in the previous
                                                                         23500000
                                                                         23550000
               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
                                                                         23600000
                                                                         23650000
                                                                         23700000
               location.
                                                                         23750000
                                                                         23800000
*************************
                        BIN NUMBER
  RVSTBIN, *, 6, CH
                                                                         23850000
  RVOBIN, *, 6, CH
                        PREVIOUS BIN NUMBER
                                                                         23900000
  RVSTDATE, *, 10, CH
RVRETDAT, *, 10, CH
                        MOVEMENT TRACKING DATE
                                                                         23950000
                        RETENTION DATE CALCULATED BY VRS PROCESSING
                                                                         24000000
  RVLONLOC, *, 8, CH
                                                                         24050000
                        LOAN LOCATION
  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
                                                                                24350000
     These fields are set each time a volume changes either from
     or to scratch status.
                                                                                24400000
************************
                                                                                24450000
                                                                                24500000
  RVASDATE, *, 10, CH
                          ASSIGNED DATE
  RVASTIME, *, 6, CH
RVOWNID, *, 8, CH
                          ASSIGNED TIME HHMMSS
                                                                                24550000
                          VOLUME OWNER USERID
                                                                                24600000
                          CREATING USERID CREATING JOBNAME
  RVCRUID, *, 8, CH
                                                                                24650000
  RVCRJOB, *, 8, CH
                                                                                24700000
                          SECURITY LEVEL - SHORT
SECURITY LEVEL - LONG
  RVSECLEV, *, 8, CH
                                                                                24750000
  RVSECLNG, *, 30, CH
                                                                                24800000
                          VOLUME SEQUENCE NUMBER
                                                                                24850000
  RVVOLSEQ, *, 4, CH
 RVSTATUS,*,8,CH
RVMST,'MASTER'
RVUSR,'USER'
RVSCR,'SCRATCH'
RVINI,'INIT'
RVENT,'ENTRY'
                          VOLUME STATUS
                                                                                24900000
                            MASTER
                                                                                24950000
                            USER
                                                                                25000000
                            SCRATCH
                                                                                25050000
                            INIT
                                                                                25100000
                            ENTRY
                                                                                25150000
 RVPENDRS, *,1,CH
RVYES, 'Y'
RVNO, 'N'
                          VOLUME PENDING RELEASE
                                                                                25200000
                                                                                25250000
                            YES
                            NO
                                                                                25300000
 RVVRS,*,1,CH
                          VOLUME RETAINED BY VRS
                                                                                25350000
    RVYES, 'Y
RVNO, 'N'
                            YES
                                                                                25400000
                                                                                25450000
 RVLOAN,*,1,CH
RVYES,'Y'
RVNO,'N'
                          VOLUME ON LOAN
                                                                                25500000
                            YES
                                                                                25550000
                            NO
                                                                                25600000
 RVOPEN,*,1,CH
RVYES,'Y'
RVNO,'N'
                          VOLUME IS OPENED
                                                                                25650000
                            YES
                                                                                25700000
                            NO
                                                                                25750000
 RVOCER,*,1,CH
RVYES,'Y'
RVNO,'N'
                          VOLUME RECORDED BY O/C/EOV
                                                                                25800000
                            YES
                                                                                25850000
                                                                                25900000
                                                                                25950000
 RVDEFRET, *, 1, CH
                          PARMLIB DEFAULT RETENTION USED TO GENERATE
                             THE VOLUME EXPDT
                                                                                26000000
    RVYES, 'Y'
RVNO, 'N'
                            YES
                                                                                26050000
                            NO
                                                                                26100000
 RVPPTAPE,*,1,CH
RVYES,'Y'
                          PROGRAM PRODUCT TAPE
                                                                                26150000
    RVYES,
                            YES
                                                                                26200000
    RVNO, N
                                                                                26250000
                            NO
                                                                                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 information. Any BLP output beyond file 1 on a volume
                                                                                26450000
                                                                                26500000
          is not recorded by RMM.
                                                                                26550000
*********************
                                                                                26600000
 RVLABEL,*,3,CH
RVSL,'SL'
RVAL,'AL'
RVNL,'NL'
                     LABEL TYPE
                                                                                26650000
                            SL
                                                                                26700000
                            AL
                                                                                26750000
                            NL
                                                                                26800000
    RVSUL, 'SUL'
RVAUL, 'AUL'
                            SUL
                                                                                26850000
                            AUI
                                                                                26900000
 RVBLP,*,1,CH
RVYES,'Y'
RVNO,'N'
                          VOLUME LAST WRITTEN BLP
                                                                                26950000
                                                                                27000000
                            YES
                            NO
                                                                                27050000
                                                                                27100000
************************
\star Release Actions: The following 5 fields list the actions to be \star
                                                                                27150000
                set for the volume when it is released. These are
                                                                                27200000
                                                                                27250000
                not the current actions. See RVACTION for the
                pending actions.
                                                                                27300000
                                                                                27350000
***********************
 RVRETS,*,8,CH
RVOWN,'OWNER'
RVSCR,'SCRATCH'
                          RETURN ACTION
                                                                                27400000
                          OWNER
                                                                                27450000
                            SCRATCH
                                                                                27500000
 RVREPL,*,1,CH
RVYES,'Y'
RVNO,'N'
                          REPLACE ON RELEASE
                                                                                27550000
                            YES
                                                                                27600000
                                                                                27650000
                            NO
 RVINIT,*,1,CH
RVYES,'Y'
RVNO,'N'
RVERASE,*,1,CH
                          REINITIALISE
                                                                                27700000
                            YES
                                                                                27750000
                            NO
                                                                                27800000
                          SECURITY ERASE
                                                                                27850000
    RVYES, 'Y
RVNO, 'N'
                                                                                27900000
                            YES
                                                                                27950000
                            NO
 RVNTFY,*,1,CH
RVYES,'Y'
RVNO,'N'
RVOWNAC,*,1,CH
RVRD,'R'
                          NOTIFY OWNER
                                                                                28000000
                            YES
                                                                                28050000
                                                                                28100000
                            NO
                          OWNER ACCESS
                                                                                28150000
                            RFAD
                                                                                28200000
    RVUPD, 'U'
                            UPDATE
                                                                                28250000
```

```
RVADD, 'A'
                                                                                                     28300000
                                    ADD
  RVUSERAC, *, 1, CH
                                 USER ACCESS
                                                                                                     28350000
     RVRD, 'R'
RVUPD, 'U'
                                    READ
                                                                                                     28400000
                                    UPDATE
                                                                                                     28450000
 RVVMUSE,*,1,CH
RVYES,'Y'
RVNO,'N'
                                 VM USE
                                                                                                     28500000
                                   YES
                                                                                                     28550000
                                    NO
                                                                                                     28600000
  RVMVSUSE,*,1,CH
RVYES,'Y'
RVNO,'N'
                                 MVS USE
                                                                                                     28650000
                                 YES
                                                                                                     28700000
                                                                                                     28750000
                                    NO
  RVNAME, *, 8, CH
                                 MEDIA NAME
                                                                                                     28800000
     RVUNIT, =, 8, CH
                                 Old name for RVNAME field
                                                                                                     28850000
  RVRACK, *, 6, CH
RVTRERR_OLD, *, 4, ZD
                                 RACK NUMBER
                                                                                                     28900000
                                 Temporary read errors <=9999
                                                                                            @K3C
                                                                                                    28950000
                                 Temporary write errors <=9999
Permanent read errors <=9999
  RVTWERR_OLD,*,4,ZD
RVPRERR_OLD,*,4,ZD
                                                                                                    29000000
                                                                                            @K3C
                                                                                            @K3C
                                                                                                    29050000
  RVPWERR_OLD, *, 4, ZD
                                 Permanent write errors <=9999
                                                                                                    29100000
                                                                                            @K3C
************************
                                                                                                     29150000
                                                                                                    29200000
* Product Information: Includes number, release and feature code
***********************
                                                                                                    29250000
  RVPPNUM, *, 8, CH
                                 PROGRAM PRODUCT NUMBER
                                                                                                     29300000
  RVVER,*,6,CH
RVFEAT,*,4,CH
RVACCINF,*,40,CH
                                 VERSION/RELEASE/MOD NUMBER
                                                                                                     29350000
                                 FEATURE CODE
                                                                                                     29400000
                                                                                                     29450000
                                 ACCOUNTING INFORMATION
                                 USER DESCRIPTION
  RVUSEFLD, *, 30, CH
                                                                                                     29500000
  RVACCLST, *, 3, ZD
                                 NUMBER OF ACCESS LIST ENTRIES
                                                                                             @K7C 29550000
                                 AUTHORIZED USER IDS AREA
  RVAUTIDS, *, 96, CH
                                                                                                     29600000
  RVHLOC,*,8,CH
RVTRANS,*,1,CH
                                 HOME LOCATION NAME
                                                                                                     29650000
                                 VOLUME IN TRANSIT
                                                                                                     29700000
     RVYES, 'Y
RVNO, 'N'
                                    YES
                                                                                                     29750000
                                    NO
                                                                                                     29800000
  RVNO, N
RVLOCTYP,*,1,CH
RVAUT,'A'
RVMAN,'M'
RVSTR,'S'
                                 LOCATION TYPE
                                                                                                     29850000
                                                                                                     29900000
                                    AUTO
                                                                                                     29950000
                                    MANUAL
                                    STORE
                                                                                                     30000000
  RVSIR, 'S'
RVBLK,' '
RVDESTYP,*,1,CH
RVAUT,'A'
RVMAN,'M'
RVSTR,'S'
                                    BLANK
                                                                                                     30050000
                                 DESTINATION TYPE
                                                                                                     30100000
                                    AUTO
                                                                                                     30150000
                                    MANUAL
                                                                                                     30200000
                                    STORE
                                                                                                     30250000
  RVBLK,''
RVOLOC,*,8,CH
                                    BLANK
                                                                                                     30300000
                                 THE PREVIOUS LOCATION NAME
                                                                                                     30350000
  RVOLUC,*,8,CH
RVSGNAME,*,8,CH
RVMEDREC,*,8,CH
RV18,'18TRACK'
RV36,'36TRACK'
RV128,'128TRACK'
RV256,'256TRACK'
RV384,'384TRACK'
                                 STORAGE GROUP NAME
                                                                                                     30400000
                                 VOLUME RECORDING FORMAT
                                                                                                     30450000
                                   18 TRACK
                                                                                                     30500000
                                    36 TRACK
                                                                                                     30550000
                                    128 TRACK
                                                                                                     30600000
                                    256 TRACK
                                                                                                     30650000
                                    384 TRACK
                                                                                              @SEA 30675000
     RVEFMT1, 'EFMT1'
RVEFMT2, 'EFMT2'
                                    EFMT1 format
                                                                                              @SFA 30687500
                                    EFMT2 format
                                                                                             @SHA 30693700
     RVEFMT2, 'EEFMT2'
RVEFMT3, 'EFMT3'
                                    EEFMT2 format (encrypted)
                                                                                             @SOA 30694700
                                    EFMT3 format
                                                                                              @SOA 30695700
     RVEEFMT3, 'EEFMT3'
RVEFMT4, 'EFMT4'
                                    EEFMT3 format (encrypted)
                                                                                              @SOA 30696700
                                    EFMT4 format
                                                                                              @SOA 30697700
     RVEEFMT4, 'EEFMT4'
                                    EEFMT4 format (encrypted)
                                                                                              @SOA 30698700
  RVMEDTY, *, 8, CH
                                 VOLUME MEDIA TYPÈ
                                                                                                     30700000
     RVAST, '*'
RVCST, 'CST'
RVEC, 'ECCST'
RVHP, 'HPCT'
RVEH, 'EHPCT'
                                                                                                     30750000
                                     CST
                                                                                                     30800000
                                     ECCST
                                                                                                     30850000
                                     HPCT
                                                                                                     30900000
 RVEH, 'EHPCT'
RVMED5, 'ETC'
RVETC, 'ETC'
RVEWTC, 'EWTC'
RVEETC, 'EETC'
RVEEWTC, 'EEWTC'
RVEXTC, 'EXTC'
RVEXWTC, 'EATC'
RVEATC, 'EATC'
RVEAWTC, 'EAUTC'
RVEAUTC, 'EAETC'
RVEAETC, 'EAETC'
RVMEDCMP,*,8,CH
RVAST, '*'
RVNON, 'NONE'
RVYES, 'Y'
RVMEDATR,*,8,CH
                                     EHPCT
                                                                                                     30950000
                                   ETC (MEDIA5)
ETC (MEDIA5)
EWTC (MEDIA6 - WORM)
EETC (MEDIA7 - ECONOMY)
EEWTC (MEDIA8 - ECONOMY WORM)
EXTC (MEDIA9 - EXTENDED)
                                                                                             @SGC 30991600
                                                                                              @SGA 31033200
                                                                                             @SGA 31074800
                                                                                             @SGA 31116400
                                                                                             @SGA 31158000
                                                                                             @SHA 31172000
                                     EXWTC (MEDIA10 - EXTENDED WORM)
EATC (MEDIA11 - ADVANCED)
EAWTC (MEDIA12 - ADVANCED WORM)
EAETC (MEDIA13 - ADVANCED ECONOMY)
                                                                                             @SHA 31186000
                                                                                             @SOA 31189500
                                                                                             @SOA 31193000
                                                                                             @SOA 31196500
                                 COMPACTION TECHNIQUE
                                                                                                     31200000
                                                                                                     31250000
                                     NONE
                                                                                                     31300000
                                     YES
                                                                                                     31350000
 RVMEDATR,*,8,CH
RVNON,'NONE'
RVRDC,'RDCOMPAT'
RVSNAMM,*,44,CH
                                 SPECIAL ATTRIBUTES
                                                                                                     31400000
                                     NONE
                                                                                                     31450000
                                     RDCOMPAT
                                                                                                     31500000
                                 FIRST FILE DATA SET NAME
                                                                                                     31550000
 RVMVMODE,*,1,CH
RVAUT,'A'
                                 MOVE MODE
                                                                                                     31600000
                                    AUTO
                                                                                                     31650000
```

```
RVMAN, 'M'
                              MANUAL
                                                                                     31700000
  RVDSNREC,*,1,CH
RVYES,'Y'
RVNO,'N'
                            DS RECORDING
                                                                                     31750000
                              YES
                                                                                     31800000
                                                                                     31850000
                              NO
  RVALVERS,*,2,CH
RVALCUR,=,1,CH
                            ANSI LABEL VERSION
CURRENT LABEL VERSION
                                                                               @LLC 31900000
                                                                                     31950000
                                                                                     32000000
    RVALREQ, *, 1, CH
                              REQUIRED LABEL VERSION
  RVBMEDN,*,8,CH
RVOBMEDN,*,8,CH
                            BIN MEDIA NAME
                                                                                     32050000
                            PREVIOUS BIN MEDIA NAME
                                                                                     32100000
                            REQUIRED LOCATION NAME - AS DETERMINED BY
  RVNLOC, *, 8, CH
                                                                                     32150000
                               VRS OR COMMAND
                                                                                     32200000
  RVLUDEV, *, 4, CH
                            LAST USED DRIVE
                                                                                     32250000
***********************
                                                                                     32300000
\star Pending Actions: The following fields list the actions required \star
                                                                                     32350000
                 for the volume. See RVRETS for the actions set
                                                                                     32400000
                 when the volume is released.
                                                                                     32450000
************************
                                                                                     32500000
  RVACTION, *, 8, CH
                            PENDING ACTIONS
                                                                                     32550000
    RVACTSCR,=,1,CH
RVYES,'Y'
RVNO,'N'
                            RETURN TO SCRATCH
                                                                                     32600000
                            YES
                                                                                     32650000
                              NO
                                                                                     32700000
    RVACTREP,*,1,CH
RVYES,'Y'
RVNO,'N'
                            REPLACE VOLUME
                                                                                     32750000
                              YES
                                                                                     32800000
                                                                                     32850000
*
                              NO
    RVACTRET,*,1,CH
RVYES,'Y'
                            RETURN TO OWNER
                                                                                     32900000
      RVYES, 'Y
RVNO, 'N'
                                                                                     32950000
                              YES
                              NO
                                                                                     33000000
    RVACTINI,*,1,CH
RVYES,'Y'
                                                                                     33050000
                            INITIALIZE
      RVYES, 'Y
RVNO, 'N'
                              YES
                                                                                     33100000
                              NO
                                                                                     33150000
    RVACTERA,*,1,CH
RVYES,'Y'
RVNO,'N'
                            ERASE
                                                                                     33200000
                              YES
                                                                                     33250000
                                                                                     33300000
                              NO
    RVACTNOT,*,1,CH
RVYES,'Y'
RVNO,'N'
                            NOTIFY
                                                                                     33350000
                              YES
                                                                                     33400000
                                                                                     33450000
                              NO
    SKIP,2
                            RESERVED
                                                                                     33500000
                            DATA SET CLOSED BY ABEND
  RVABEND, *, 1, CH
                                                                                     33550000
    RVYES, 'Y'
RVNO, 'N'
                              YES
                                                                                     33600000
                                                                                     33650000
 RVHOMTYP,*,1,Ch
RVAUT,'A'
RVMAN,'M'
RVBLK,''
                            HOME LOCATION TYPE
                                                                                     33700000
                             AUTO
                                                                                     33750000
                              MANUAL
                                                                                     33800000
    RVBLK,
                              BLANK
                                                                                     33850000
  RVNEXTYP,*,1,CH
RVAUT,'A'
RVMAN,'M'
                            NEXT LOCATION TYPE
                                                                                     33900000
                              AUTO
                                                                                     33950000
                              MANUAL
                                                                                     34000000
    RVSTR, 'S'
                              STORE
                                                                                     34050000
                              BLANK
                                                                                     34100000
    RVBLK,
  RVVOLTYPE,*,1,CH VOLUME TYPE
RVVOLTYPE_PHYSICAL,'P' VOLUME TYPE PHYSICAL
RVVOLTYPE_LOGICAL,'L' VOLUME TYPE LOGICAL
RVVOLTYPE_STACKED,'S' VOLUME TYPE STACKED
                                                                                     34150000
                                                                               @NNC 34200000
@NNC 34250000
                                                                               @NNC 34300000
  RVVRSREL, *, 8, CH
                            VRS RELEASE OPTIONS
                                                                                     34350000
    RVRELIXD,=,1,CH
RVYES,'Y'
RVNO,'N'
                            IGNORE EXPDT
                                                                                     34400000
                                                                                     34450000
                              YES
                                                                                     34500000
                              NΩ
    RVRELSI,*,1,CH
RVYES,'Y'
RVNO,'N'
                            SCRATCH IMMEDIATE
                                                                                     34550000
                                                                                     34600000
                              YES
                                                                                     34650000
                              NO
                            RESERVED
                                                                                     34700000
    SKIP,6
  RVCONTNR, *, 16, CH
                            IN CONTAINER NAME
                                                                                     34750000
    RVCONTNR_STV,=,6,CH STACKED VOLUME CONTAINER
                                                                               @15A 34766600
                            RESERVED
                                                                               @15A 34783200
    SKIP, 10
  RVROPRTY, *, 4, CH
                            MOVEMENT PRIORITY
                                                                                     34800000
                            Volume capacity, factored: MB, GB or TB VOLUE RETAINED BY SET \,
                                                                               @SKC 34826500
  RVCAPACITY, *, 10, ZD
                                                                               @10D 34853100
 RVRBYSET,*,1,CH
  RVRBYSET, *, 1, CH
                            VOLUME RETAINED BY SET
                                                                                     34881200
  RVSTACKVOL_ENABLED, *, 1, CH STACKED VOLUME RECORD ENABLED
                                                                                     34900000
                                  AND SYNCHRONIZED
                                                                                     34950000
                            UNIQUE VALUE CREATED AT START OF EXPORT TO A NEW STACKED VOLUME
  RVEXPTOKEN, *, 8, CH
                                                                                     35000000
                                                                                     35050000
 SKIP,2
                            RESERVED
                                                                               @LLD 35100000
  RVSTACKED_VOLCOUNT, *, 10, CH COUNT OF VOLUMES STACKED ON A
                                                                               @03C 35150000
                                                                                     35158300
                                  VOLUME
                                                                               @K7C 35162400
                            VOLUME PERCENTAGE FULL
  RVPERCENT, *, 3, ZD
  RVDSNNO, *, 5, CH
                            NUMBER OF DATASETS ON VOLUME NEW
                                                                               @LLA 35166600
  RVLABNO1, *, 5, CH
                            LABEL NO OF FIRST FILE NEW
                                                                               @LLA 35183200
  RVDCRSID, *, 8, CH
                                                                               @05A 35222100
                            First file creation system ID
                                                                               @05A 35261000
                            RESERVED FOR FUTURE USE
  RVREST, *, 1, CH
                                                                                     35270700
  RVDESTBIN, *, 6, CH
                           Destination Bin Number
                                                                               @SCA 35280400
```

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RVDESTBINMEDIA, *, 8, CH Destination Bin Media Name
                                                                                    @SCA 35290100
  RVVOL1,*,6,CH
                              VOL1 label volser
                                                                                     @LSA 35295000
  RVVENDOR, *, 8, CH
RVWWID, *, 24, CH
                                                                                    @SGA 35296200
                              Vendor information
                              Unique World wide Identifier
                                                                                    @SGA 35297400
  RVVWMC, *, 5, ZD
RVTRERR, *, 5, ZD
                                                                                     @SGA 35298600
                              Write mount count
                                                                                     @K3A 35298800
                              Temporary read errors
                              Temporary write errors
Permanent read errors
  RVTWERR, *, 5, ZD
                                                                                     @K3A 35299000
  RVPRERR, *, 5, ZD
RVPWERR, *, 5, ZD
                                                                                     @K3A 35299200
                              Permanent write errors
                                                                                     @K3A 35299400
  RVKEYLABEL1,*,64,CH
                                                                                     @SJA 35299500
                              Encryption key label 1
  RVKEYENCOD1, *, 5, CH
                              Key encoding mechanism 1, LABEL or HASH
                                                                                     @SJA 35299600
  RVKEYLABEL2, *, 64, CH
                              Encryption key label 2
                                                                                     @SJA 35299700
                              Key encoding mechanism 2, LABEL or HASH Media information
  RVKEYENCOD2, *, 5, CH
                                                                                     @SJA 35299800
  RVMEDINF, *, 8, CH
RVIRMMUSE, *, 1, CH
                                                                                     @09A 35299900
                              IRMM USE - Y/N
WORM - Y/N
                                                                                     @11A 35312400
  RVWORM, *, 1, CH
                                                                                     @11A 35324900
  RVFACTOR,*,2,CH
RVFACTOR_MB,'MB'
RVFACTOR_GB,'GB'
RVFACTOR_TB,'TB'
                              Space/size factor, MB, GB or TB
                                                                                     @SKA 35326200
                                                                                     @SKA 35327500
                                                                                     @SKA 35328800
                                                                                     @SKA 35330100
  RVAPPUSE, *, 10, ZD
                              Tape usage, factored: MB, GB or TB
                                                                                     @SKA 35331400
  RVUSE, *, 5, CH
                                                                                     @12A 35333100
                              Volume use count
  RVHOLD,*,1,CH
RVESB,*,10,CH
                                                                                    @00A 35335200
@08A 35335300
                              HOLD - Y/N
                              Expdt set by
    RVESB_UNKNOWN,'
                                                                                     @08A 35335400
    RVESB_ONNOWN,
RVESB_CMD, 'CMD'
RVESB_CMD_DEF, 'CMD_DEF'
RVESB_CMD_VOLCAT, 'CMD_VOLCAT'
RVESB_OCE_JFCB, 'OCE_JFCB'
RVESB_OCE_EXIT, 'OCE_EXIT'
RVESB_OCE_DEF, 'OCE_DEF'
RVESB_OCE_MAX, 'OCE_MAX'
RVESB_OCE_MAX, 'OCE_MAX'
                                                                                     @08A 35335500
                                                                                     @08A 35335600
                                                                                    @08A 35335700
@08A 35335800
                                                                                     @08A 35335900
                                                                                     @08A 35336000
                                                                                     @08A 35336100
    RVESB_OCE_VOLCAT'
RVESB_LCS,'LCS'
RVESB_LCS_DEF,'LCS_DEF'
                                                                                     @08A 35336200
                                                                                     @08A 35336300
                                                                                     @08A 35336400
    RVESB_TVEXTPURGE, 'TVEXTPURGE'
RVESB_CNVT, 'CNVT'
                                                                                     @08A 35336500
                                                                                     @08A 35336600
    RVESB_EXPORT, 'EXPORT'
RVESB_LASTREF, 'LASTREF'
RVESB_OCE_MC, 'OCE_MC'
                                                                                     @08A 35336700
                                                                                     @OQA 35336900
                                                                                     @OVA 35337000
    RVESB_CATRETPD, 'CATRETPD'
RVESB_CATLG_DAYS, 'CATLG_DAYS'
                                                                                     @M2A 35337010
                                                                                     @M2A 35337020
    RVESB_DEFTABLE, 'DEFTABLE'
                                                                                     @M3A
  RVUCDATE, *, 10, CH
                              Last "user" change date
                                                                                     @OBA 35337100
  RVUCTIME, *, 6, CH
RVRETMET, *, 5, CH
                              Last "user" change time
                                                                                     @OBA 35337300
                              Retention Method
                                                                                     @OGA 35337700
 RVRETMET_VRSEL,'VRSEL'
RVRETMET_EXPDT,'EXPDT'
RVRMSB,*,10,CH Re
                                                                                     @OGA 35338500
                                                                                     @OGA 35339300
                                                                                     @OGA 35340100
                              Retention Method Set By
    RVRMSB_UNDEFINED, 'UNDEFINED'
                                                                                     @OGA 35340900
    RVRMSB_UNDEFINE
RVRMSB_CMD,'CMD',
RVRMSB_CMD_DEF,'CMD_DEF'
RVRMSB_OCE_DEF,'OCE_DEF'
RVRMSB_OCE_EXIT,'OCE_EXIT'
RVRMSB_LCS_DEF,'LCS_DEF'
RVRMSB_CNVT,'CNVT'
                                                                                     @OGA 35341700
                                                                                     @OGA 35342500
                                                                                     @OGA 35343300
                                                                                     @OGA 35344100
                                                                                     @OGA 35344900
                                                                                     @OGA 35345700
    RVRMSB_EXPORT_DEF, 'EXPORT_DEF'
RVRMSB_INERS_DEF, 'INERS_DEF'
RVRMSB_MC_ATTR, 'MC_ATTR'
RVRMSB_DEFTABLE, 'DEFTABLE'
                                                                                     @OGA 35346500
                                                                                     @OGA 35347300
                                                                                     @M5A
                                                                                     @M3A
  RVCOMP_RAT,*,6,CH
                                                                                     @SOA 35347400
                              Compression ratio for volume
  RVPHYS_USED, *, 10, CH
                              Physical space used (factored)
                                                                                     @SOA 35347500
  RVEXRB, *, 9, CH
RVEXRB_BLANK, '
                                                                                     @OSA 35347600
                              EXPDT Retain By
                                                                                     @K6A 35347700
    RVEXRB_VOLUME, 'VOLUME'
RVEXRB_FIRSTFILE, 'FIRSTFILE'
                                                                                     @OSA 35347800
                                                                                     @OSA 35347900
    RVEXRB_SET, 'SET'
                                                                                     @OSA 35348000
  RVEDM, *, 1, CH
                             EDM - Y/N
                                                                                     @M7A 35348050
*******************
                                                                                           35348100
* END OF REPORT EXTRACT VOLUME RECORD
                                                                                           35350000
***************************
                                                                                           35400000
                             END OF RVEXT
                                                                                           35450000
************************
                                                                                           35500000
              This file maps the information produced for volume
                                                                                           35516600
               records in the RMM report extract file.
                                                                                           35533200
               In this record the date format depends on the DATEFORM
                                                                                           35549800
              selected by EDGHSKP execution parameter or the parmlib
                                                                                           35566400
              specified value.
                                                                                           35583000
*************************
                                                                                           35600000
POSITION, EXTRACT_DATA
                                                       start at EXTRACT_DATA @04A
                                                                                           35650000
  SKIP,3
                                                                                   @04A
                                                                                           35700000
                              Reserved
```

```
RXVOLSER, *, 6, CH
                        Volume serial number
                                                                    @04A 35750000
  RXADJVOL,*,12,CH
                        Adjacent Volser(s) in Set
                                                                    A009
                                                                          35787500
    RXVPVOL, =, 6, CH
                        Previous volume in sequence
                                                                    @00C
                                                                          35825000
    RXVNVOL,*,6,CH
                        Next volume in sequence
                                                                          35862500
                                                                    0000
  SKIP.6
                        Reserved
                                                                    @04A
                                                                          35900000
************************
                                                                          35950000
* RXMDMVID: Is a unique token assigned to every volume and every *@04A
                                                                          36000000
            data set in a multi-volume set.
                                                                   *@04A
                                                                          36050000
36100000
  RXVMDMVID, *, 8, CH
                        Multi-data set multi volume id
                                                                   *@04A
                                                                          36150000
  SKIP,12
                        Reserved
                                                                   *@04A
                                                                          36200000
**********************************
                                                                          36250000
   Start of common fields:
                                                                   *@04A
                                                                          36300000
  The common fields are in the same place in each record type *@04A in the report extract file. This allows common processing of *@04A
                                                                   *@04A
                                                                          36350000
                                                                          36400000
   these field across multiple record types.
                                                                   *@04A
                                                                          36450000
36500000
                        Create date of volume record
Create time HHMMSS of volume record
  RXVCRDATE, *, 10, CH
                                                                    @04A
                                                                          36550000
  RXVCRTIME, *, 6, CH
                                                                    @04A
                                                                          36600000
  RXVCRSID, *, 8, CH
                        Create system id of volume record
                                                                    @04A
                                                                          36650000
  RXVLCDATE, *, 10, CH
                        Last change date of volume record
                                                                    @04A
                                                                          36700000
  RXVLCTIME, *, 6, CH
                        Last change time HHMMSS of volume record
                                                                          36750000
                                                                    @04A
  RXVLCUID, *, 8, CH
                                                                    @04A
                        Last change user id of volume record
                                                                          36800000
                        Last change system id of volume record
                                                                    @04A
  RXVLCSID, *, 8, CH
                                                                          36850000
*********************
                                                                          36900000
                                                                          36950000
  End of common fields
                                                                  *@04A
****************************
                                                                          37000000
  RXVEXPDTO, *, 10, CH
                        Expiration date - original Expiration date - current
                                                                    @04A
                                                                          37050000
  RXVEXPDT, *, 10, CH
                                                                    @04A
                                                                          37100000
  RXVDEN, *, 4, CH
                        Recording density
                                                                    @04A
                                                                          37150000
  RXVCOMP,*,1,CH
RXVYES,'Y'
                        Compaction used
                                                                    @04A
                                                                          37200000
                                                                    @04A
                                                                          37250000
                          Yes
    RXVNO, 'N'
                                                                    @04A
                          No
                                                                          37300000
  SKIP,4
                        Reserved
                                                                    @K2C
                                                                          37350000
  RXVTUSE, *, 10, FS
                        Tape usage in kbytes
                                                                    @SKC
                                                                          37400000
  RXVUSE_OLD, *, 4, CH
                        VOLUME USE COUNT <=9999
                                                                    @12C
                                                                          37450000
  SKIP,4
                                                                    @K2C
                                                                          37500000
                        Reserved
 RXVSTORID,*,8,CH
RXVSHL,'SHELF'
RXVLOC,'LOCAL'
RXVREM,'REMOTE'
                        Current location name
                                                                    @04A
                                                                          37550000
                          Shelf
                                                                    @04A
                                                                          37600000
                          Local
                                                                    @04A
                                                                          37650000
                          Remote
                                                                    @04A
                                                                          37700000
                                                                          37750000
                                                                    @04A
    Can also be:
      Distant installation defined store
                                                                    @04A
                                                                          37800000
**
      SMS-defined library name
                                                                    @04A
                                                                          37850000
 RXVDEST,*,8,CH
RXVLOC,'LOCAL'
RXVREM,'REMOTE'
                        Destination name
                                                                    @04A
                                                                          37900000
                                                                    @04A
                                                                          37950000
                          Local
                                                                    @04A
                                                                          38000000
                          Remote
                                                                    @04A
**
    Can also be:
                                                                          38050000
      Distant installation defined store
                                                                    @04A
                                                                          38100000
      SMS-defined library name
                                                                    @04A
                                                                          38150000
38200000
* Bin Numbers: If a volume is not moving (RXTRANS=N), and is in \star @04A * a storage location, RXSTBIN contains the current \star @04A
                                                                          38250000
                                                                          38300000
               bin number and RXOBIN the bin number in the
                                                                   *@04A
                                                                          38350000
               previous location.
                                                                   *@04A
                                                                          38400000
               If a volume is moving (RXTRANS=Y), and moving to a storage location, RXSTBIN contains the target bin number and RXOBIN the bin number in the
                                                                  *@04A
                                                                          38450000
                                                                   *@04A
                                                                          38500000
                                                                   *@04A
                                                                          38550000
                                                                   *@04A
               source location.
                                                                          38600000
***************************
                                                                          38650000
  RXVSTBIN,*,6,CH Bin number
                                                                    @04A
                                                                          38700000
                                                                          38750000
  RXVOBIN, *, 6, CH
                        Previous bin number
                                                                    @04A
 RXVSTDATE,*,10,CH
RXVRETDAT,*,10,CH
RXVLONLOC,*,8,CH
RXVLONLOC,*,8,CH
                        Movement tracking date
                                                                    @04A
                                                                          38800000
                        Retention date calculated by VRS process. @04A
                                                                          38850000
                                                                    @04A
                                                                          38900000
                        Loan location
                        Previous loan location
                                                                    @04A
                                                                          38950000
  RXVLRDDAT, *, 10, CH
                        Date volume last read
                                                                    @04A
                                                                          39000000
  RXVLWTDAT, *, 10, CH
                        Date volume last written
                                                                    @04A
                                                                          39050000
********************
                                                                          39100000
* Assigned date and time:
                                                                   *@04A
                                                                          39150000
     These fields are set each time a volume changes either from *@04A
                                                                          39200000
     or to scratch status.
                                                                   *@04A
                                                                          39250000
*****************************
                                                                          39300000
  RXVASDATE,*,10,CH
RXVASTIME,*,6,CH
                         Assigned date
Assigned time HHMMSS
                                                                    @04A
                                                                          39350000
                                                                    @04A
                                                                          39400000
                                                                    @04A
  RXVOWNID,*,8,CH
                         Volume owner userid
                                                                          39450000
  RXVCRUID, *, 8, CH
                         Creating userid
                                                                    @04A
                                                                          39500000
                         Creating jobname
Security level - short
Security level - long
  RXVCRJOB, *, 8, CH
                                                                    @04A
                                                                          39550000
  RXVSECLEV, *, 8, CH
                                                                    @04A
                                                                          39600000
                                                                    @04A
                                                                          39650000
  RXVSECLNG, *, 30, CH
  RXVVOLSEQ, *, 4, CH
                         Volume sequence number
                                                                    @04A
                                                                          39700000
  RXVSTATUS, *, 8, CH
                         Volume status
                                                                    @04A
                                                                          39750000
```

```
RXVMST, 'MASTER'
RXVUSR, 'USER'
RXVSCR, 'SCRATCH'
RXVINI, 'INIT'
RXVENT, 'ENTRY'
RXVPENDRS,*,1,CH
RXVYES, 'Y'
RXVNO, 'N'
RXVYRS,*,1,CH
RXVYES, 'Y'
RXVYNO, 'N'
RXVYLOAN,*,1,CH
    RXVMST, 'MASTER'
                                                                              @04A 39800000
                               Master
                                                                              @04A
                                                                                     39850000
                               Scratch
                                                                              @04A
                                                                                     39900000
                                                                              @04A
                                                                                     39950000
                               Init
                               Entry
                                                                              @04A
                                                                                     40000000
                             Volume pending release
                                                                              @04A
                                                                                     40050000
                               Yes
                                                                              @04A
                                                                                     40100000
                               No
                                                                              @04A
                                                                                     40150000
                             Volume retained by VRS
                                                                              @04A
                                                                                     40200000
                                                                              @04A
                                                                                     40250000
                               Yes
                               No
                                                                              @04A
                                                                                     40300000
  RXVLOAN,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                             Volume on loan
                                                                              @04A
                                                                                     40350000
                                                                              @04A
                                                                                     40400000
                               Yes
                                                                              @04A
                                                                                     40450000
                               No
  RXVOPEN,*,1,CH
RXVYES,'Y'
                                                                              @04A
                             Volume is opened
                                                                                     40500000
                               Yes
                                                                              @04A
                                                                                     40550000
    RXVNO, 'N'
                                                                              @04A
                               No
                                                                                     40600000
  RXVOCER,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                             Volume recorded by O/C/EOV
                                                                              @04A
                                                                                     40650000
                                                                                     40700000
                               Yes
                                                                              @04A
                              No
                                                                              @04A
                                                                                     40750000
  RXVDEFRET, *, 1, CH
                             Parmlib default retention used to
                                                                              @04A
                                                                                     40800000
                              generate the volume EXPDT
                                                                              @04A
                                                                                     40850000
    RXVYES, 'Y'
RXVNO, 'N'
                                                                              @04A
                               Yes
                                                                                     40900000
                                                                              @04A
                                                                                     40950000
                               No
  RXVPPTAPE,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                             Program product tape
                                                                              @04A
                                                                                     41000000
                                                                              @04A
                                                                                     41050000
                               Yes
                               No
                                                                                     41100000
******************************
                                                                                     41150000
* Labels: The RXLABEL field provides information about what label*@04A
                                                                                     41200000
           types may be written on the volume. If BLP output has *@04A
                                                                                     41250000
           been used, the volume may no longer match this *@04A information. Any BLP output beyond file 1 on a volume *@04A
                                                                                     41300000
                                                                                     41350000
           is not recorded by RMM.
                                                                           *@04A
                                                                                     41400000
*********************
                                                                                     41450000
  RXVLABEL,*,3,CH
RXVSL,'SL'
RXVAL,'AL'
RXVNL,'NL'
                        Label type
                                                                              @04A
                                                                                     41500000
                              SL
                                                                              @04A
                                                                                     41550000
                              AL
                                                                              @04A
                                                                                     41600000
                                                                              @04A
                              NI
                                                                                     41650000
    RXVSUL, 'SUL'
RXVAUL, 'AUL'
                              SUL
                                                                              @04A
                                                                                     41700000
                              AUL
                                                                              @04A
                                                                                     41750000
  RXVBLP,*,1,CH
RXVYES,'Y'
                            Volume last written BLP
                                                                              @04A
                                                                                     41800000
                                                                              @04A
                                                                                     41850000
                              Yes
    RXVNO, 'N'
                                                                              @04A
                                                                                     41900000
                              No
*****************************
                                                                                     41950000
* Release Actions: The following 5 fields list the actions to *@04A
                                                                                     42000000
                be set for the volume when it is released. These *@04A are not the current actions. See RXACTION for *@04A
                                                                                     42050000
                                                                                     42100000
                 the pending actions.
                                                                             *@04A
                                                                                     42150000
42200000
  RXVRETS,*,8,CH
RXVOWN,'OWNER'
RXVSCR,'SCRATCH'
                                                                              @04A
                                                                                     42250000
                            Return action
                            Owner
                                                                              @04A
                                                                                     42300000
                                                                              @04A
                                                                                     42350000
                              Scratch
 RXVREPL,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                            Replace on release
                                                                              @04A
                                                                                     42400000
                              Yes
                                                                              @04A
                                                                                     42450000
                              No
                                                                              @04A
                                                                                     42500000
 RXVINIT,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                                                                              @04A
                            Reinitialise
                                                                                     42550000
                                                                              @04A
                              Yes
                                                                                     42600000
                              No
                                                                              @04A
                                                                                     42650000
  RXVERASE,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                                                                              @04A
                                                                                     42700000
                            Security erase
                                                                              @04A
                                                                                     42750000
                            Yes
                                                                              @04A
                                                                                     42800000
                              Nο
  RXVNTFY,*,1,CH
RXVYES,'Y'
RXVNO,'N'
RXVOWNAC,*,1,CH
RXVRD,'R'
                                                                              @04A
                            Notify owner
                                                                                     42850000
                              Yes
                                                                              @04A
                                                                                     42900000
                                                                              @04A
                                                                                     42950000
                              Nο
                            Owner access
                                                                              @04A
                                                                                     43000000
                              Read
                                                                              @04A
                                                                                     43050000
    RXVUPD, 'U'
RXVADD, 'A'
                                                                              @04A
                              Update
                                                                                     43100000
                              Add
                                                                              @04A
                                                                                     43150000
  RXVUSERAC, *, 1, CH
                                                                              @04A
                            User access
                                                                                     43200000
    RXVRD, 'R'
                                                                              @04A
                                                                                     43250000
                              Read
    RXVUPD, 'U'
                                                                              @04A
                                                                                     43300000
                              Update
 RXVMUSE,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                            VM use
                                                                              @04A
                                                                                     43350000
                              Yes
                                                                              @04A
                                                                                     43400000
                              No
                                                                              @04A
                                                                                     43450000
  RXVMVSUSE,*,1,CH
RXVYES,'Y'
                                                                              @04A
                                                                                     43500000
                            MVS use
    RXVYES, 'Y
RXVNO, 'N'
                                                                              @04A
                                                                                    43550000
                              Yes
                              No
                                                                              @04A
                                                                                     43600000
  RXVNAME, *, 8, CH
                                                                              @04A
                            Media name
                                                                                     43650000
                            Old name for RXVNAME field RacK number
                                                                                     43700000
    RXVUNIT,=,8,CH
                                                                              @04A
  RXVRACK, *, 6, CH
                                                                              @04A
                                                                                     43750000
  RXVTRERR_OLD, *, 4, ZD
                            Temporary read errors
                                                         <=9999
                                                                              @K3C
                                                                                     43800000
  RXVTWERR_OLD, *, 4, ZD
                            Temporary write errors <=9999
                                                                              @K3C
                                                                                     43850000
```

```
RXVPRERR_OLD,*,4,ZD Permanent read errors <=9999
RXVPWERR_OLD,*,4,ZD Permanent write errors <=9999
                                                                                         @K3C 43900000
                                                                                         @K3C
                                                                                                 43950000
44000000
\star Product Information: Includes number, release and feature code \star \bar{@}04A
                                                                                                 44050000
*************************
                                                                                                 44100000
  RXVPPNUM, *, 8, CH
                                Program product number
                                                                                         @04A
                                                                                                 44150000
  RXVER,*,6,CH
RXVFEAT,*,4,CH
RXVACCINF,*,40,CH
                                Version/Release/Mod number
                                                                                         @04A
                                                                                                 44200000
                                Feature code
                                                                                         @04A
                                                                                                 44250000
                                Accounting information
                                                                                         @04A
                                                                                                 44300000
  RXVUSEFLD, *, 30, CH
                                                                                         @04A
                                User description
                                                                                                 44350000
  RXVACCLST, *, 3, CH
                                Number of access list entries
                                                                                         @04A
                                                                                                 44400000
  RXVAUTIDS, *, 96, CH
                                Authorized user ids area
                                                                                         @04A
                                                                                                 44450000
  RXVHLOC,*,8,CH
RXVTRANS,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                                Home location name
                                                                                         @04A
                                                                                                 44500000
                                                                                         @04A
                                                                                                 44550000
                                Volume in transit
                                                                                         @04A
                                   Yes
                                                                                                 44600000
                                   No
                                                                                         @04A
                                                                                                 44650000
  RXVLOCTYP,*,1,CH
RXVAUT,'A'
RXVMAN,'M'
                                                                                         @04A
                                                                                                 44700000
                                Location type
                                                                                         @04A
                                                                                                 44750000
                                   Auto.
                                                                                         @04A
                                   Manual
                                                                                                 44800000
     RXVSTR, 'S'
RXVBLK, '
                                   Store
                                                                                         @04A
                                                                                                 44850000
                                                                                         @04A
                                                                                                 44900000
                                   Blank
  RXVDEXTYP,*,1,CH
RXVAUT,'A'
RXVMAN,'M'
                                Destination type
                                                                                         @04A
                                                                                                 44950000
                                                                                         @04A
                                                                                                 45000000
                                   Auto
                                                                                         @04A
                                   Manual
                                                                                                 45050000
     RXVSTR, 'S'
RXVBLK, '
                                   Store
                                                                                         @04A
                                                                                                 45100000
                                                                                         @04A
                                                                                                 45150000
                                   Blank
  RXVOLOC, *,8,CH
                                                                                         @04A
                                The previous location name
                                                                                                 45200000
  RXVOLUC,*,8,CH

RXVSGNAME,*,8,CH

RXVMEDREC,*,8,CH

RXV18,'18TRACK'

RXV36,'36TRACK'

RXV128,'128TRACK'

RXV256,'256TRACK'

RXV384,'384TRACK'
                                Storage group name
                                                                                         @04A
                                                                                                 45250000
                                Volume recording format
                                                                                         @04A
                                                                                                 45300000
                                   18 Track
                                                                                         @04A
                                                                                                 45350000
                                   36 Track
                                                                                         @04A
                                                                                                 45400000
                                   128 Track
                                                                                         @04A
                                                                                                 45450000
                                   256 Track
384 Track
                                                                                         @04A
                                                                                                 45500000
                                                                                         @SEA
                                                                                                 45525000
     RXV384, 3841RACK
RXVEFMT1, 'EFMT1'
RXVEFMT2, 'EFMT2'
RXVEEFMT2, 'EEFMT2'
RXVEFMT3, 'EFMT3'
RXVEFMT3, 'EFMT4'
RXVEFMT4, 'EFMT4'
                                   EFMT1 format
                                                                                         @SHA
                                                                                                 45533300
                                                                                                 45541600
                                   EFMT2 format
                                                                                         @SHA
                                   EEFMT2 format (encrypted)
                                                                                         @SOA
                                                                                                 45543000
                                   EFMT3 format
                                                                                         @SOA
                                                                                                 45544400
                                   EEFMT3 format (encrypted) EFMT4 format
                                                                                         @SOA
                                                                                                 45545800
                                                                                         @SOA
                                                                                                 45547200
     RXVEEFMT4, 'EEFMT4'
                                   EEFMT4 format (encrypted)
                                                                                         @SOA
                                                                                                 45548600
  RXVMEDTY, *, 8, CH
                                Volume media type
                                                                                         @04A
                                                                                                 45550000
     RXVAST, '*'
RXVCST, 'CST'
RXVEC, 'ECCST'
RXVHP, 'HPCT'
RXVEH, 'EHPCT'
                                                                                         @04A
                                                                                                 45600000
                                    CST
                                                                                         @04A
                                                                                                 45650000
                                    ECCST
                                                                                         @04A
                                                                                                 45700000
                                    HPCT
                                                                                         @04A
                                                                                                 45750000
                                    EHPCT
                                                                                         @04A
                                                                                                 45800000
     RXVETC, 'ETC'
RXVEWTC, 'EWTC'
RXVEETC, 'EETC'
                                  ETC (MEDIA5)
EWTC (MEDIA6 - WORM)
EETC (MEDIA7 - ECONOMY)
                                                                                         @SGA
                                                                                                 45850000
                                                                                         @SGA
                                                                                                 45900000
                                                                                         @SGA
                                                                                                 45950000
     RXVEEUC, 'EEUC'
RXVEEWTC, 'EEWTC'
RXVEXTC, 'EXTC'
RXVEXTC, 'EAWTC'
RXVEATC, 'EAWTC'
RXVEAETC, 'EACTC'
RXVEAETC, 'EACTC'
                                   EETC (MEDIA7 - ECONOMY)

EEWTC (MEDIA8 - ECONOMY WORM)

EXTC (MEDIA9 - EXTENDED)

EXWTC (MEDIA10 - EXTENDED WORM)

EATC (MEDIA11 - ADVANCED)

EAWTC (MEDIA12 - ADVANCED WORM)

EAETC (MEDIA13 - ADVANCED ECONOMY)
                                                                                         @SGA
                                                                                                 46000000
                                                                                         @SHA
                                                                                                 46016600
                                                                                         @SHA
                                                                                                 46033200
                                                                                         @SOA
                                                                                                 46037400
                                                                                         @SOA
                                                                                                 46041600
                                                                                                 46045800
                                                                                         @SOA
  RXVMEDCMP,*,8,CH
RXVAST,'*'
RXVNON,'NONE'
RXVYES,'Y'
                                Compaction technique
                                                                                         @04A
                                                                                                 46050000
                                                                                         @04A
                                                                                                 46100000
                                                                                         @04A
                                                                                                 46150000
                                    None
                                                                                         @04A
                                    Yes
                                                                                                 46200000
  RXVMEDATR,*,8,CH
RXVNON,'NONE'
RXVRDC,'RDCOMPAT'
RXVDSNAM1,*,44,CH
                                Special attributes
                                                                                         @04A
                                                                                                 46250000
                                                                                         @04A
                                    None
                                                                                                 46300000
                                    RDCOMPAT
                                                                                         @04A
                                                                                                 46350000
                                First file data set name
                                                                                         @04A
                                                                                                 46400000
  RXVDSNAMI,*,44,CH
RXVMVMODE,*,1,CH
RXVAUT,'A'
RXVMAN,'M'
RXVDSNREC,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                                                                                         @04A
                                                                                                 46450000
                                Move mode
                                   Auto
                                                                                         @04A
                                                                                                 46500000
                                                                                         @04A
                                   Manual
                                                                                                 46550000
                                Data set recording
                                                                                         @04A
                                                                                                 46600000
                                                                                         @04A
                                   Yes
                                                                                                 46650000
                                   Nο
                                                                                         @04A
                                                                                                 46700000
  RXVALVERS, *, 2, CH
                                                                                         @04A
                                Ansi label version
                                                                                                 46750000
                                Current label version
     RXVALCUR, =, 1, CH
                                                                                         @04A
                                                                                                 46800000
     RXVALREQ, *, 1, CH
                                   Required label version
                                                                                         @04A
                                                                                                 46850000
  RXVBMEDN, *, 8, CH
                                Bin media name
                                                                                         @04A
                                                                                                 46900000
  RXVOBMEDN, *, 8, CH
                                Previous bin media name
                                                                                         @04A
                                                                                                 46950000
  RXVNLOC, *, 8, CH
                                Required location name - as determined by @04A
                                                                                                 47000000
                                    VRS or command
                                                                                         @04A
                                                                                                 47050000
                                Last used drive
                                                                                                 47100000
  RXVLUDEV, *, 4, CH
***************************
                                                                                                 47150000
* Pending Actions: The following fields list the actions required*@04A

* for the volume. See RXRETS for the actions set *@04A
                                                                                                 47200000
                                                                                                 47250000
                    when the volume is released.
                                                                                        *@04A
                                                                                                 47300000
```

```
RXVACTION, *, 8, CH
                           Pending actions
                                                                                   47400000
                                                                             @04A
    RXVACTSCR,=,1,CH
RXVYES,'Y'
RXVNO,'N'
                           Return to scratch
                                                                             @04A
                                                                                   47450000
                                                                             @04A
                                                                                   47500000
                              Yes
*
                              Nο
                                                                             @04A
                                                                                   47550000
    RXVACTREP,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                           Replace volume
                                                                             @04A
                                                                                   47600000
                              Yes
                                                                             @04A
                                                                                   47650000
                              No
                                                                             @04A
                                                                                   47700000
    RXVACTRET,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                           Return to owner
                                                                             @04A
                                                                                   47750000
                                                                             @04A
                              Yes
                                                                                   47800000
                              No
                                                                             @04A
                                                                                   47850000
*
    RXVACTINI, *, 1, CH
                           Initialize
                                                                             @04A
                                                                                   47900000
      RXVYES, 'Y
RXVNO, 'N'
                                                                             @04A
                                                                                   47950000
*
                              Yes
                                                                             @04A
                                                                                   48000000
*
                              No
    RXVACTERA,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                           Erase
                                                                             @04A
                                                                                   48050000
                              Yes
                                                                             @04A
                                                                                   48100000
                                                                             @04A
                              No
                                                                                   48150000
    RXVACTNOT,*,1,CH
RXVYES,'Y'
                           Notify
                                                                             @04A
                                                                                   48200000
                                                                             @04A
                              Yes
                                                                                   48250000
      RXVNO, N
                              No
                                                                             @04A
                                                                                   48300000
                                                                             @04A
                                                                                   48350000
    SKIP,2
                           Reserved
  RXVABEND, *, 1, CH
                                                                             @04A
                           Data set closed by abend
                                                                                   48400000
    RXVYES, 'Y
RXVNO, 'N'
                                                                             @04A
                              Yes
                                                                                   48450000
                                                                             @04A
                                                                                   48500000
 RXVNO,'N'
RXVHOMTYP,*,1,CH
RXVAUT,'A'
RXVMAN,'M'
RXVBLK,''
RXVNEXTYP,*,1,CH
RXVAUT,'A'
RXVAUT,'A'
RXVSTR,'S'
RXVBLK,''
RXVBLK,''
                              No
                           Home location type
                                                                             @04A
                                                                                   48550000
                                                                             @04A
                              Auto
                                                                                   48600000
                                                                             @04A
                              Manual
                                                                                   48650000
                             Blank
                                                                             @04A
                                                                                   48700000
                           Next location type
                                                                             @04A
                                                                                   48750000
                              Auto
                                                                             @04A
                                                                                   48800000
                              Manual
                                                                             @04A
                                                                                   48850000
                                                                             @04A
                                                                                   48900000
                              Store
                                                                             @04A
                                                                                   48950000
                              Blank
  RXVOLTYPE,*,1,CH Volume type
RXVOLTYPE_PHYSICAL,'P' Volume type physical
RXVOLTYPE_LOGICAL,'L' Volume type logical
RXVOLTYPE_STACKED,'S' Volume type stacked
                                                                             @04A
                                                                                   49000000
                                                                             @NNC
                                                                                   49050000
                                                                             @NNC
                                                                                   49100000
                                                                             @NNC
                                                                                   49150000
                           VRS release_options
  RXVRSREL, *, 8, CH
                                                                             @04A
                                                                                   49200000
    RXVRELIXD,=,1,CH
RXVYES,'Y'
RXVNO,'N'
                           Ignore EXPDT
                                                                             @04A
                                                                                   49250000
                                                                             @04A
                                                                                   49300000
                              Yes
                              No
                                                                             @04A
                                                                                   49350000
    RXVRELSI,*,1,CH
RXVYES,'Y'
RXVNO,'N'
                           Scratch immediate
                                                                             @04A
                                                                                   49400000
                                                                             @04A
                                                                                   49450000
                              Yes
                                                                             @04A
                                                                                   49500000
                              No
    SKIP,6
                                                                             @04A
                                                                                   49550000
                           Reserved
  RXVCONTNR,*,16,CH In container name RXVCONTNR_STV,=,6,CH Stacked volume container
                                                                             @04A
                                                                                   49600000
                                                                             @15A
                                                                                   49616600
    SKIP,10
                            Reserved
                                                                             @15A
                                                                                   49633200
                           Movement priority
Volume capacity, factored: MB, GB or TB
Volume retained by set
  RXVRQPRTY, *, 4, CH
                                                                             @04A
                                                                                   49650000
  RXVCAPACITY, *, 10, ZD
                                                                            @SKC
                                                                                   49700000
  RXVRBYSET, *, 1, CH
                                                                                   49750000
                                                                             @04A
  RXVSTACKVOL_ENABLED, *, 1, CH Stacked volume record enabled
                                                                             @04A
                                                                                   49800000
                                  and synchronized
                                                                             @04A
                                                                                   49850000
                           Unique value created at start of Export to a new stacked volume
  RXVEXPTOKEN, *, 8, CH
                                                                             @04A
                                                                                    49900000
                                                                             @04A
                                                                                   49950000
  RXVSTACKED_VOLCOUNT,*,10,CH Count of volumes stacked on a volume@04A
                                                                                   50000000
  RXVPERCENT, *, 3, CH
                           Volume percentage full
                                                                            @04A
                                                                                    50050000
  RXVDSNNO, *, 5, CH
                           NUMBER OF DATASETS ON VOLUME
                                                                             @SCC
                                                                                    50094400
  RXVLABNO1, *, 5, CH
                           LABEL NO OF FIRST FILE ON VOL
                                                                             @SCC
                                                                                    50138800
                           First file creation system ID
  RXVDCRSID, *, 8, CH
                                                                             @05A
                                                                                   50183300
    SKIP,1
                                                                             @05C
                                                                                   50216600
                           Reserved
  RXVOLCNT, *, 4, CH
                           Multi volume count
                                                                             @04A
                                                                                    50250000
    SKIP,4
                           Reserved
                                                                             @04A
                                                                                    50300000
  RXDSNAME, *, 44, CH
                           Data set name
                                                                             @04A
                                                                                    50350000
**********************************
                                                                                   50400000
   Start of common fields:
                                                                           *@04A
                                                                                    50450000
   The common fields are in the same place in each record type
                                                                            *@04A
                                                                                    50500000
   in the report extract file. This allows common processing of *@04A
                                                                                   50550000
   these field across multiple record types.
                                                                           *@04A
                                                                                    50600000
********************************
                                                                                    50650000
  RXDCRDATE, *, 10, CH
                           Create date of data set record
                                                                             @04A
                                                                                    50700000
  RXDCRTIME, *, 6, CH
                           Create time (HHMMSS) of data set
                                                                             @04A
                                                                                    50750000
  RXDCRSID, *, 8, CH
                           Create system id of data set record
                                                                             @04A
                                                                                   50800000
                           Last change date of data set record
  RXDLCDATÉ, *, 10, CH
                                                                            @04A
                                                                                    50850000
  RXDLCTIME, *, 6, CH
                           Last change time (HHMMSS) of data set reco@04A
                                                                                   50900000
  RXDLCUID,*,8,CH
                           Last change user id of data set record
                                                                            @04A
                                                                                    50950000
  RXDLCSID, *, 8, CH
                           Last change system id of data set record
                                                                            @04A
                                                                                    51000000
  RXDVOLSER, *, 6, CH
                           Volume serial number
                                                                             @04A
                                                                                   51050000
                                                                                   51100000
  SKIP,4
                           Reserved
                                                                             @K2C
                           Creating drive address
Record format
  RXDUNITAD, *, 4, CH
                                                                             @04A
                                                                                   51150000
  RXDRECFM, *, 4, CH
                                                                             @04A
                                                                                   51200000
  RXDVOLSEQ, *, 4, ZD
                                                                             @M7C
                                                                                   51250000
                           Volume sequence number
```

```
Logical record length
                                                                      @04A 51300000
  RXDLRECL,*,6,CH
  RXDBLKSZ, *, 6, CH
                         Physical block size
                                                                      @04A
                                                                            51350000
  RXDBLKCNT_OLD,*,8,CH
RXDOWNDSN,*,8,CH
                         Block count if <=99999999
                                                                      @13C
                                                                            51400000
                                                                      @04A
                                                                            51450000
                         Data set owner
                         Security level - SHORT
Security level - LONG
  RXDSECLEV, *, 8, CH
                                                                            51500000
                                                                      @04A
  RXDSECLNG, *, 30, CH
                                                                      @04A
                                                                            51550000
  RXDCOMP,*,1,CH
RXDYES,'Y'
RXDNO,'N'
                                                                            51600000
                         Compaction used
                                                                      @04A
                           Yes
                                                                      @04A
                                                                            51650000
                                                                      @04A
                                                                            51700000
                           Nο
  RXDLRDDAT, *, 10, CH
                         Date data set last read
Date data set last written
                                                                      @04A
                                                                            51750000
  RXDLWTDAT, *, 10, CH
                                                                      @04A
                                                                            51800000
  RXDMCNAME, *, 8, CH
                         SMS management class
                                                                      @04A
                                                                            51850000
  RXDVRSVAL, *, 8, CH
RXDSGNAME, *, 8, CH
                         VRS management value
                                                                      @04A
                                                                            51900000
                         SMS storage group name
                                                                      @04A
                                                                            51950000
  RXDSCNAME, *,8,CH
RXDDCNAME, *,8,CH
                         SMS storage class name
                                                                      @04A
                                                                            52000000
                         SMS data class name
                                                                      @04A
                                                                            52050000
                         Creating job name
Matching VRS type flag
DATASET
  RXDCRTJBN, *, 8, CH
                                                                      @04A
                                                                            52100000
  RXDVRSTYP,*,1,CH
RXDVD,'D'
                                                                      @04A
                                                                            52150000
                                                                      @04A
                                                                            52200000
    RXDVS, 'S'
RXDVV, 'V'
                           SMSMC
                                                                      @04A
                                                                            52250000
                           VRSMV
                                                                      @04A
                                                                            52300000
 RXDVV, V
RXDVM, 'M'
RXDVC, 'C'
RXDVRSNAM, *, 44, CH
                           Dataset and VRSMV
                                                                      @04A
                                                                            52350000
                         Dataset and SMSMC
Matching VRS name
                                                                      @04A
                                                                            52400000
                                                                      @04A
                                                                            52450000
                         Matching VRS job name mask
  RXDVRSJBN,*,8,CH
                                                                      @04A
                                                                            52500000
 RXDRETDAT,*,10,CH Retention date
RXDSTEPNM,*,8,CH Creating step name
RXDDDNAME,*,8,CH Creating DD name
                                                                      @04A
                                                                            52550000
                                                                      @04A
                                                                            52600000
                                                                      @04A
                                                                            52650000
52700000
* RXDMDMVID: Is a unique token assigned to every volume and *@04A
* every data set in a multi-volume set. *@04A
                                                                            52750000
     every data set in a multi-volume set.
                                                                            52800000
52850000
                                                                            52900000
*********************
                                                                            52950000
* Data set size: This is calculated by multiplying the blocksize*@04A

* by the number of blocks divided by 1024. *@K5C
                                                                            53000000
                                                                            53050000
53100000
 RXDDSSIZE,*,10,FS Approx. size of file kbytes
                                                                            53150000
                                                                      @SKC
                       Data set closed by abend
 RXDABEND,*,1,CH
RXDYES,'Y'
RXDNO,'N'
                                                                      @04A
                                                                            53200000
                                                                      @04A
                                                                            53250000
                            No
                                                                      @04A
                                                                            53300000
53350000
* RXDCAT: Set to 'Y' either when opened after allocation *@14C
                                                                            53372200
          determines VOLSER by reference to the catalog or when *@14C
                                                                            53394400
          data set is cataloged after the data set is recorded
                                                                     *@14C
                                                                            53416600
          in DFSMSrmm.
                                                                     *@14C
                                                                            53438800
                                                                            53461000
          Set to 'N' when it was cataloged and now is not. Set to 'U'/Unknown when it was never cataloged or
                                                                     *@14A
                                                                            53483200
                                                                     *@14A
                                                                            53505400
                                                                            53527600
          uncataloged.
                                                                     *014A
                                                                            53550000
*******************************
 RXDCAT, *, 1, CH
                         CATALOGED Y/N/U
                                                                      @14C
                                                                            53600000
   RXDYES, 'Y
RXDNO, 'N'
                           Yes
                                                                      @04A
                                                                            53650000
                           No
                                                                      @04A
                                                                            53700000
 RXDUNKNOWN,'U' UNKNOWN
RXDVRSR,*,1,CH Retained by VRS
RXDYES,'Y' Yes
RXDNO,'N' No
                                                                      @14A
                                                                            53725000
                                                                      @04A
                                                                            53750000
                                                                      @04A
                                                                            53800000
                                                                      @04A
                                                                            53850000
 RXDDELETED,*,1,CH
RXDYES,'Y'
RXDNO,'N'
                         Deleted by Disposition
                                                                      @MXA
                                                                            53870000
                                                                      @MXA
                                                                            53890000
                        Yes
No
                                                                      MXA
                                                                            53910000
  SKIP,2
                         Reserved
                                                                      @MXC
                                                                            53930000
  SKIP,4
                                                                      @04A
                                                                            53950000
                         Reserved
54000000
                                                                     *@04A
                                                                            54050000
* Primary VRS subchain name:
                  This is the retaining VRS in the matching *@04A primary VRS chain. It is set only if retained *@04A
                                                                     *@04A
                                                                            54100000
                                                                            54150000
                   by a NAME VRS subchain in the primary VRS. *@04A
                                                                            54200000
*************************************
                                                                            54250000
 RXDVRSSCH,*,8,CH Primary VRS subchain name RXDVRSXDS,*,10,CH Primary VRS subchain start date
                                                                      @04A
                                                                            54300000
                                                                      @04A
                                                                            54350000
***************************
                                                                            54400000
* Retaining Secondary VRS name:
                                                                      @04A
                                                                            54450000
                  Matching vrs name and job name are included where a secondary VRS also matches.
The retaining VRS subchain NAME in this
                                                                     *@04A
                                                                            54500000
                                                                     *004A
                                                                            54550000
                                                                     *@04A
                                                                            54600000
                   matching VRS is set if it is used to retain
                                                                     *@04A
                                                                            54650000
                                                                            54700000
                   the data set.
                                                                     *@04A
54750000
 RXD2VNME,*,8,CH Secondary VRS name mask
RXD2VJBN,*,8,CH Secondary VRS jobname mask
RXD2VSCH,*,8,CH Secondary VRS subchain NAME
                                                                      @04A
                                                                            54800000
                                                                      @04A
                                                                            54850000
                                                                      @04A
                                                                            54900000
```

```
Secondary VRS subchain startdate
                                                                                                   54950000
RXD2VXDS, *, 10, CH
                                                                                           @04A
RXDTOTAL_BLKCNT_OLD,*,10,CH Total blkcnt across all ds volumes @13C
                                                                                                    55000000
RXDPERCENT,*,3,ZD
RXDCPGM,*,8,CH
                               Percentage of volume used by data set
                                                                                           @M7C
                                                                                                    55050000
                                                                                           @04A
                                                                                                    55100000
                               Creating program name
RXDLPGM, *, 8, CH
                               Last used program name
Last used job name
                                                                                                    55150000
                                                                                           @04A
RXDLJOB, *, 8, CH
                                                                                           @04A
                                                                                                    55200000
RXDLSTEP, *, 8, CH
                               Last used step name
                                                                                           @04A
                                                                                                    55250000
RXDLDDNM,*,8,CH
RXDLDEVN,*,4,CH
                               Last used DD name
                                                                                           @04A
                                                                                                    55300000
                               Last used device name
                                                                                           @04A
                                                                                                    55350000
RXVMVDSNAM1,*,44,CH
RXDDSNSEQ,*,5,CH
                               First dataset of a volume set
                                                                                           @K2C
                                                                                                    55400000
                               Data set sequence number
                                                                                           @04A
                                                                                                    55438800
RXDLABNO, *, 5, CH
                               Label number Label=(xx,ll)
                                                                                           @04A
                                                                                                    55477600
RXVDESTBIN,*,6,CH Destination Bin Number
RXVDESTBINMEDIA,*,8,CH Destination Bin Media Name
                                                                                           @SCA
                                                                                                    55516600
                                                                                           @SCA
                                                                                                    55533200
RXVOL1,*,6,CH
RXDEXPDT,*,10,CH
                                                                                           @LSA
                               VOL1 label volser
                                                                                                    55541600
                               Data set expiration date
                                                                                           @08A
                                                                                                    55543700
RXDEXPDTO, *, 10, CH
                               Original d/s expiration date
                                                                                           008A
                                                                                                    55545800
RXDDEFRET, *, 1, CH
RXVVENDOR, *, 8, CH
                               Default RETPD used
                                                                                           008A
                                                                                                    55547900
                               Vendor information
                                                                                           @SGA
                                                                                                    55548400
RXVWWID, *, 24, CH
                               Unique World wide Identifier
                                                                                           @SGA
                                                                                                    55548900
RXVVWMC, *, 5, ZD
                               Write mount count
                                                                                           @SGA
                                                                                                    55549400
RXVTRERR, *, 5, ZD
                                                                                           @КЗА
                                                                                                    55549500
                               Temporary read errors
RXVTWERR, *, 5, ZD
                               Temporary write errors
Permanent read errors
                                                                                           @K3A
                                                                                                    55549600
                                                                                           @K3A
RXVPRERR, *, 5, ZD
                                                                                                    55549700
RXVPWERR, *, 5, ZD
                               Permanent write errors
                                                                                           @K3A
                                                                                                    55549800
RXVKEYLABEL1,*,64,CH
RXVKEYENCOD1,*,5,CH
                               Encryption key label 1
                                                                                           @SJA
                                                                                                    55558100
                               Key encoding mechanism 1, LABEL or HASH
                                                                                           @SJA
                                                                                                    55566400
RXVKEYLABEL2,*,64,CH
                                                                                                    55574700
                               Encryption key label 2
                                                                                           @SJA
RXVKEYENCOD2,*,5,CH
                                                                                           @SJA
                                                                                                    55583000
                               Key encoding mechanism 2, LABEL or HASH
RXVMEDINF, *, 8, CH
RXVIRMMUSE, *, 1, CH
RXVWORM, *, 1, CH
                               Media information
                                                                                           @09A
                                                                                                    55587100
                               IRMM USE - Y/N
                                                                                           @11A
                                                                                                    55588500
                               WORM - Y/N
                                                                                           @11A
                                                                                                    55589900
RXVFACTOR, *, 2, CH
                               Space/size factor, MB, GB or TB
                                                                                           @SKA
                                                                                                    55590000
                           applies to RXVCAPACITY, RXVAPPUSE, RXDSIZE
                                                                                           @SKA
                                                                                                    55590100
  RXVFACTOR_MB, 'MB'
RXVFACTOR_GB, 'GB'
RXVFACTOR_TB, 'TB'
                                                                                           @SKA
                                                                                                    55590200
                                                                                                    55590300
                                                                                           @SKA
                                                                                           @SKA
                                                                                                    55590400
RXVAPPUSE, *, 10, ZD
                               Tape usage, factored: MB, GB or TB
                                                                                           @SKA
                                                                                                    55590500
RXVUSE,*,5,CH
RXDSIZE,*,10,ZD
RXDBESKEY,*,10,CH
RXDBLKCNT,*,20,ZD
                               Volume use count
                                                                                           @12A
                                                                                                    55590700
                               Data set size, factored: MB, GB or TB
                                                                                           @SKA
                                                                                                    55591000
                               BES key index
                                                                                           @SLA
                                                                                                    55591100
                               Block count
                                                                                                    55593300
                                                                                           @13A
RXDTOTAL_BLKCNT,*,20,ZD Total block count across all volumes
                                                                                                    55595500
                                                                                           @13A
RXVHOLD, \pm, 1, CH
                               HOLD - Y/N
                                                                                           @00A
                                                                                                    55596600
RXVESB, *, 10, CH
                               Expdt set by - of the volume
                                                                                           @08A
                                                                                                    55598000
  RXVESB_UNKNOWN,' 'RXVESB_CMD,'CMD'
                                                                                           @08A
                                                                                                    55599400
  RXVESB_CMD, 'CMD'
RXVESB_CMD_DEF, 'CMD_DEF'
RXVESB_CMD_VOLCAT, 'CMD_VOLCAT'
RXVESB_OCE_JFCB, 'OCE_JFCB'
RXVESB_OCE_EXIT, 'OCE_EXIT'
RXVESB_OCE_DEF, 'OCE_DEF'
RXVESB_OCE_MAX, 'OCE_MAX'
RXVESB_OCE_VOLCAT, 'OCE_VOLCAT'
RXVESB_LCS, 'LCS'
RXVESB_LCS, 'LCS
                                                                                           @08A
                                                                                                    55600800
                                                                                           008A
                                                                                                    55602200
                                                                                           @08A
                                                                                                    55603600
                                                                                           @08A
                                                                                                    55605000
                                                                                           A800
                                                                                                    55606400
                                                                                           @08A
                                                                                                    55607800
                                                                                           @08A
                                                                                                    55609200
                                                                                           008A
                                                                                                    55610600
                                                                                           @08A
                                                                                                    55612000
  RXVESB_LCS_DEF, 'LCS_DEF'
RXVESB_TVEXTPURGE, 'TVEXTPURGE'
                                                                                           @08A
                                                                                                    55613400
                                                                                           008A
                                                                                                    55614800
   RXVESB_CNVT, 'CNVT
                                                                                           @08A
                                                                                                    55616200
  RXVESB_EXPORT, 'EXPORT'
RXVESB_LASTREF, 'LASTREF'
RXVESB_OCE_MC, 'OCE_MC'
                                                                                           @08A
                                                                                                    55617600
                                                                                                    55618300
                                                                                           @00A
                                                                                           aova
                                                                                                    55618600
   RXVESB_CATRETPD, 'CATRETPD'
RXVESB_CATLG_DAYS, 'CATLG_DAYS'
                                                                                           @M2A
                                                                                                    55618610
                                                                                           @M2A
                                                                                                    55618620
   RXVESB DEFTABLE, 'DEFTABLE'
                                                                                           @M3A
RXDESB,*,10,CH
RXDESB_UNKNOWN,''
                               Expdt set by - of the data set
                                                                                           A809
                                                                                                    55619000
                                                                                           008A
                                                                                                    55620400
   RXDESB_CMD, 'CMD'
                                                                                           @08A
                                                                                                    55621800
  RXDESB_CMD, 'CMD'
RXDESB_CMD_DEF, 'CMD_DEF'
RXDESB_CMD_VOLCAT, 'CMD_VOLCAT'
RXDESB_OCE_JFCB, 'OCE_JFCB'
RXDESB_OCE_EXIT, 'OCE_EXIT'
RXDESB_OCE_DEF, 'OCE_DEF'
RXDESB_OCE_MAX, 'OCE_MAX'
RXDESB_OCE_VOLCAT, 'OCE_VOLCAT'
RXDESB_LCS, 'LCS'
RXDESB_LCS_DEF, 'LCS_DEF'
RXDESB_TYPEXTPURGE'
                                                                                           @08A
                                                                                                    55623200
                                                                                           A800
                                                                                                    55624600
                                                                                           @08A
                                                                                                    55626000
                                                                                           @08A
                                                                                                    55627400
                                                                                           @08A
                                                                                                    55628800
                                                                                           A809
                                                                                                    55630200
                                                                                           A809
                                                                                                    55631600
                                                                                                    55633000
                                                                                           @08A
                                                                                           @08A
                                                                                                    55634400
  RXDESB_LUS_DEF, LUS_DEF
RXDESB_TVEXTPURGE, 'TVEXTPURGE'
RXDESB_CNVT, 'CNVT'
RXDESB_EXPORT, 'EXPORT'
RXDESB_LASTREF, 'LASTREF'
RXDESB_OCE_MC, 'OCE_MC'
                                                                                           008A
                                                                                                    55635800
                                                                                           A809
                                                                                                    55637200
                                                                                           008A
                                                                                                    55638600
                                                                                           @OQA
                                                                                                    55639300
                                                                                           @OVA
                                                                                                    55639600
```

```
RXDESB_CATRETPD, 'CATRETPD'
                                                                                                                                                                               @M2A
                                                                                                                                                                                              55639610
          RXDESB_CATLG_DAYS, 'CATLG_DAYS'
                                                                                                                                                                               @M2A
                                                                                                                                                                                              55639620
    RXDESB_DEFTABLE, DEFTABLE RXVUCDATE, *, 10, CH Volume RXVUCTIME, *, 6, CH Volume RXDUCDATE, *, 10, CH Datase
                                                                                                                                                                               @M3A
                                                              Volume last "user" change date
Volume last "user" change time
Dataset last "user" change date
Dataset last "user" change time
                                                                                                                                                                               @OBA
                                                                                                                                                                                              55640000
                                                                                                                                                                                              55641400
                                                                                                                                                                               @OBA
                                                                                                                                                                               @OBA
                                                                                                                                                                                              55642800
     RXDUCTIME, *, 6, CH
                                                                                                                                                                               @OBA
                                                                                                                                                                                              55644200
     RXDVEX,*,1,CH
RXVRETMET,*,5,CH
                                                               VRSEL Exclude Y/N
                                                                                                                                                                               @OFA
                                                                                                                                                                                              55644900
                                                               Retention Method
                                                                                                                                                                              anga
                                                                                                                                                                                              55645000
          RXVRETMET_VRSEL,'VRSEL
RXVRETMET_EXPDT,'EXPDT
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645100
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645200
     RXVRMSB, \star, 1\overline{0}, CH
                                                                                                                                                                                              55645300
                                                               Retention Method Set By
                                                                                                                                                                               @OGA
         RXVRMSB,*,10,CH RETENTION
RXVRMSB_UNDEFINED,'UNDEFINED'
RXVRMSB_CMD,'CMD',
RXVRMSB_CMD_DEF,'CMD_DEF'
RXVRMSB_OCE_DEF,'OCE_DEF'
RXVRMSB_OCE_EXIT,'OCE_EXIT'
RXVRMSB_LCS_DEF,'LCS_DEF'
RXVRMSB_CNVT,'CNVT'
RXVRMSB_EXPORT_DEF 'EXPORT_DEF'
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645400
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645500
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645600
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645700
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645800
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55645900
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55646000
         RXVRMSB_EXPORT_DEF, 'EXPORT_DEF'
RXVRMSB_INERS_DEF, 'INERS_DEF'
RXVRMSB_MC_ATTR, 'MC_ATTR'
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55646100
                                                                                                                                                                               @OGA
                                                                                                                                                                                              55646200
                                                                                                                                                                               @M5A
                                                                                                                                                                                              55646250
          RXVRMSB_DEFTABLE, 'DEFTABLE'
                                                                                                                                                                               @M3A
     RXVCOMP_RAT, *, 6, CH
                                                               Compression ratio for volume
                                                                                                                                                                               @S0A
                                                                                                                                                                                              55646400
     RXVPHYS_USED,*,10,CH Physical space used (factored)
                                                                                                                                                                               @SOA
                                                                                                                                                                                              55646600
    RXDCOMP_RAT,*,6,CH
RXDCHYS_SIZE,*,10,CH
RXDLRED,*,5,CH
RXDLRED,*,5,CH
RXDLRED,*,5,CH
RXDLRED,*,9,CH
RXDLRED,*,9
                                                                                                                                                                               @SOA
                                                                                                                                                                                              55646800
                                                                                                                                                                                              55647000
                                                                                                                                                                               @SOA
                                                                                                                                                                               AQO9
                                                                                                                                                                                              55647200
                                                                                                                                                                               @OSA
                                                                                                                                                                                              55647400
         RXVEXRB_BLANK, '
RXVEXRB_VOLUME, 'VOLUME'
RXVEXRB_FIRSTFILE, 'FIRSTFILE'
                                                                                                                                                                               @K6A
                                                                                                                                                                                              55647500
                                                                                                                                                                               @OSA
                                                                                                                                                                                              55647600
                                                                                                                                                                               @OSA
                                                                                                                                                                                              55647800
          RXVEXRB_SET, 'SET'
                                                                                                                                                                                              55648000
                                                                                                                                                                               ansa
     RXVEDM, *, 1, CH
                                                               EDM - Y/N
                                                                                                                                                                              @M7A
                                                                                                                                                                                              55596650
************************
                                                                                                                                                                                              55648700
* End of report extended extract record
                                                                                                                                                                                               55649100
                                                                                                                                                                                               55650000
************************
RXRCEND,*
                                                            End of RVEXT
                                                                                                                                                                                               55700000
************************
                                                                                                                                                                                              55750000
                                                                                                                                                                                              55800000
* End of report extract record
*********************
                                                                                                                                                                                              55850000
```

EDGSMFSY: SMF record symbols

EDGSMFSY provides the DFSORT symbol mapping for the DFSMSrmm SMF records. For SMF audit records that use a user-written record type 128 to 255, concatenate the EDGSMFSY and EDGSRCSY macros, as shown in this example:

```
//SYMNAMES DD DISP=SHR,DSN=SYS1.MACLIB(EDGSMFSY)
// DD DISP=SHR,DSN=SYS1.MACLIB(EDGSRCSY)
```

Here are the contents of EDGSMFSY:

```
* 00100000
  RMM Inventory Management SMF Audit Record type 42 subtype 22
                                                  * 00150000
    DFSORT Symbol mapping
                                                  * 00200000
                                                 * 00250000
* z/OS DFSMSrmm V1R10
                                                  * 00350000
                                                  * 00400000
*PROPRIETARY V3 STATEMENT
                                                  * 00450000
*LICENSED MATERIALS - PROPERTY OF IBM
                                                  * 00500000
*"RESTRICTED MATERIALS OF IBM"
                                                  * 00550000
*5694-A01
                                                   00600000
*COPYRIGHT 1993 2008 IBM CORP.
                                                  * 00650000
*STATUS = HDZ1A10
                                                  * 00700000
*END PROPRIETARY V3 STATEMENT
                                                  * 00750000
                                                  * 00800000
********************* 00850000
* SEE "z/OS DFSMSrmm Reporting" FOR FIELD DETAILS ON RMM RECORDS * SEE "DFSORT APG" FOR DETAILS OF USING SYMBOLS.
                                                 * 00900000
                                                  * 00950000
* CHANGE ACTIVITY:
                                                 * 01050000
* $MZ=V1R10 ,1RA,070608,MB : SMF Forward Recovery
                                              @MZA * 01100000
* $K0=K1A1214,1RA,070809,WS : hex representation of subtype
                                              @KOA * 01125000
```

```
01200000
* Header for SMF record type 42
                                                                 * 01300000
SMF42,1,8463
                                                                   01400000
 SMF42RCL,=,2,BI
                      Record Length
                                                                   01450000
  SMF42SGD,*,2,BI
                      Segment Descriptor (RDW)
                                                                   01500000
 SMF42FLG,*,1,BI
SMF42FSI,X'80'
                      System indicator flags
                                                                   01550000
                       When set=subsystem id follows system id
                                                                   01600000
   SMF42FSU,X'40'
SMF42FXA,X'04'
                                                                   01650000
                        When set = subtypes are used
                        When set = MVS/XA (SMF enters)
                                                                   01700000
                      When set = VS2 (SMF enters)
When set = VS1 (SMF enters)
Record type: 42 (X'2A')
   SMF42FS2, X'02'
                                                                   01750000
   SMF42FS1, X'01'
                                                                   01800000
 SMF42RTY, *, 1, BI
                                                                   01850000
                      Record written time (in hundredths of second)
Record written date ('OCYYDDDF')
                                                                   01900000
 SMF42TME, *, 4, BI
 SMF42DTE, *, 4, PD
                                                                   01950000
 SMF42SID, *, 4, CH
                      System identification
                                                                   02000000
 SMF42SSI,*,4,CH
SMF42STY,*,2,BI
                      Subsystem Id
                                                                   02050000
                                                             @KOC 02100000
                      Record subtype: 22 (X'0016')
 SMF42NT, *, 2, BI
                      Number of triplets
                                                                   02150000
                      Reserved
                                                                   02200000
 SKIP,2
* 02350000
* Product section triplet
********************* 0240000
 SMF420PS,*,4,8I Offset to product section
SMF42LPS,*,2,BI Length of product section
SMF42NPS,*,2,BI Number of product sections
                                                                   02450000
                                                                   02500000
 SMF42NPS,*,2,BI
                                                                   02550000
* SMF42 subtype 22 header section
                                                                 * 02700000
  (DFSMSrmm Audit Information)
                                                                  * 02750000
SMF4222AND,*,4,BI Offset to audit section
SMF4222NAD,*,2,BI Length of audit section
SMF4222REC,*,4,BI Offset to record section
SMF4222RC,*,2,BI Length of record section
SMF4222RC,*,2,BI Length of record section
SMF4222NRC,*,2,BI Number of record sections
                                                                   02850000
                                                                   02900000
                                                                   02950000
                                                                   03000000
                                                                   03050000
 SMF4222NRC, *, 2, BI
                                                                   03100000
* Product Section
                                                                 * 03250000
SMF42PDL,*,8,CH Product Level
SMF42PDN,*,10,CH Product Name
SMF42PSV,*,1,BI Subtype versio
SKTP.1 Reserved
                                                                   03350000
                                                                   03400000
                      Subtype version number
                                                                   03450000
 SKIP,1
                      Reserved
                                                                   03500000
 SKIP,1
SMF42PTS,*,8,CH
Interval Start or Open TOD
SMF42PTE,*,8,CH
Interval End or Close TOD
                                                                   03550000
                                                                   03600000
 SKIP.4
                     Reserved
                                                                   03650000
* DFSMSrmm Audit Information (SMF 42 subtype 22)
                                                                 * 03800000
SMF42MJBN,*,8,CH Job name
                                                                   03900000
 SMF42MRST, *, 4, CH
                      Reader start time
                                                                   03950000
 SMF42MRSD, *, 4, CH
                      Reader start date
                                                                   04000000
 SMF42MUID, *, *, 8, CH
SMF42MACT, *, 1, CH
SMF42ADD, 'A'
SMF42CHG, 'C'
SMF42DEL, 'D'
                      RACF user id
                                                                   04050000
                      Activity type
                                                                   04100000
                                                                   04150000
                       Record added
                        Record changed
                                                                   04200000
                        Record deleted
                                                                   04250000
 SMF42MFG1,*,1,BI
SMF42MLIS,X'80'
                                                                   04300000
                      Flag 1
                                                                   04350000
                        Last in set
   SMF42MJRN,X'40'
                                                                   04400000
                        Journal record available
 SMF42MCVTSFLG,*,1,BI
                                                                   04450000
                      Virtual tape server flag
 SMF42MCENABLE, *, 1, BI
                      Control record enable flag
                                                                   04500000
  SMF42MLDTO, *, 8, PD
                      Local time/date offset
                                                                   04600000
 SMF42MCJNRECN, *, 4, BI
                      Journal record number
                                                                   04650000
 SMF42MJNRECNUM,*,4,BI Number of next jn rec written SMF42MCUPDVSI,*,4,BI VSI when MCUPDACT set on
                                                                   04700000
                                                                   04750000
 SMF42MCVSICNT, *, 4, BI
                      VSI control count
                                                                   04800000
  SMF42MCVRLCTK, *, 8, BI
                      VRSEL last change token
                                                                   04850000
                      Current VRS change counter
 SMF42MCVRSCNT, *, 4, BI
                                                                   04900000
 SMF42MCVRSRUN,*,4,BI Last HSKP VRS change counter
                                                                   04950000
 SMF42MCSYNCDT,*,4,BI
                      Catsynch date
                                                                   05000000
 SMF42MCSYNCTM, *, 4, BI Catsynch time
                                                                   05050000
* START OF OVERLAY AREA
                                                                 * 05200000
SMFADREC,*
                    START OF INFORMATION
                                                                   05300000
                                                                   05350000
```

EDGS42SY: SMF audit record type 42 subtype 22

EDGS42SY provides the DFSORT symbol mapping for the DFSMSrmm SMF audit record type 42 subtype 22 records. For SMF audit records that use SMF type 42 subtype 22, concatenate EDGS42SY and EDGSRCSY, as shown in this example:

```
//SYMNAMES DD DISP=SHR,DSN=SYS1.MACLIB(EDGS42SY)
// DD DISP=SHR,DSN=SYS1.MACLIB(EDGSRCSY)
```

Here are the contents of EDGS42SY:

```
* 00100000
  RMM Inventory Management SMF Audit Record type 42 subtype 22
                                                           * 00150000
                                                           * 00200000
     DFSORT Symbol mapping
                                                           * 00250000
* z/OS DFSMSrmm V1R10
                                                           * 00350000
                                                           * 00400000
*PROPRIETARY V3 STATEMENT
*LICENSED MATERIALS - PROPERTY OF IBM
                                                           * 00450000
                                                           * 00500000
*"RESTRICTED MATERIALS OF IBM"
                                                           * 00550000
*5694-A01
                                                           * 00600000
*COPYRIGHT 1993 2008 IBM CORP.
                                                           * 00650000
*STATUS = HDZ1A10
                                                           * 00700000
*END PROPRIETARY V3 STATEMENT
                                                           * 00750000
* CHANGE ACTIVITY:
                                                           * 01050000
* $MZ=V1R10 ,1RA,070608,MB : SMF Forward Recovery

* $K0=K1A1214,1RA,070809,WS : hex representation of subtype
                                                       @MZA * 01100000
                                                   @KOA * 01125000
01200000
* Header for SMF record type 42
                                                           * 01300000
******************** 01350000
SMF42,1,8463
                                                             01400000
 SMF42RCL,=,2,BI
                    Record Length
                                                             01450000
 SMF42SGD,*,2,BI
                    Segment Descriptor (RDW)
                                                             01500000
 SMF42FLG,*,1,BI
SMF42FSI,X'80'
                    System indicator flags
                                                             01550000
                   When set=subsystem id follows system id
When set = subtypes are used
                                                             01600000
   SMF42FSU, X'40'
                                                             01650000
                    When set = MVS/XA (SMF enters)
When set = VS2 (SMF enters)
When set = VS1 (SMF enters)
Record type: 42 (X'2A')
   SMF42FXA,X'04'
                                                             01700000
   SMF42FS2,X'02'
                                                             01750000
   SMF42FS1, X'01'
                                                             01800000
 SMF42RTY,*,1,BI
                                                             01850000
                    Record written time (in hundredths of second)
Record written date ('OCYYDDDF')
System identification
 SMF42TME, *, 4, BI
                                                             01900000
 SMF42DTE, *, 4, PD
                                                             01950000
 SMF42SID, *, 4, CH
                                                             02000000
 SMF42SSI,*,4,CH
SMF42STY,*,2,BI
SMF42NT,*,2,BI
                    Subsystem Id
                                                             02050000
                    Record subtype: 22 (X'0016')
                                                       @KOC 02100000
                                                             02150000
                    Number of triplets
 SKIP,2
                   Reserved
                                                             02200000
* Product section triplet
                                                           * 02350000
SMF42OPS,*,4,8I Offset to product section
SMF42LPS,*,2,BI Length of product section
SMF42NPS,*,2,BI Number of product sections
                                                             02450000
                                                             02500000
                                                             02550000
* SMF42 subtype 22 header section
                                                           * 02700000
 (DFSMSrmm Audit Information)
                                                           * 02750000
SMF4222AUD,*,4,8I Offset to audit section SMF4222LAD,*,2,BI Length of audit section Number of audit sections Offset to record section SMF4222RC,*,2,BI Length of record section SMF4222RC,*,2,BI Number of record sections
                                                             02850000
                                                             02900000
                                                             02950000
                                                             03000000
                                                             03050000
                                                             03100000
 ****************** 0320000
* Product Section
                                                           * 03250000
SMF42PDL,*,8,CH Product Level
SMF42PDN,*,10,CH Product Name
                                                             03350000
 SMF42PDN, *, 10, CH
                    Product Name
                                                             03400000
 SMF42PSV,*,1,BI Subtype version number
                                                             03450000
```

```
SKIP,1
SMF42PTS,*,8,CH Interval
SMF42PTE,*,8,CH Interval
Reserved
                                                                              03500000
                         Interval Start or Open TOD
                                                                              03550000
                         Interval End or Close TOD
                                                                              03600000
                                                                              03650000
* DFSMSrmm Audit Information (SMF 42 subtype 22)
                                                                            * 03800000
************************************

SMF42MRST,*,4,CH

SMF42MRSD,*,4,CH

SMF42MID,*,8,CH

SMF42MACT,*,1,CH

SMF42ADD,'A'

SMF42CHG,'C'

SMF42CHG,'C'

SMF42DEL,'D'

SMF42MLIS,X'80'

SMF42MLIS,X'80'

SMF42MJRN,X'40'

SMF42MCVTSFLG,*.1.BI

SMF42MCVTSFLG,*.1.BI

Virtual tape serv
                                                                              03900000
                          Reader start time
                                                                              03950000
                         Reader start date
                                                                              04000000
                                                                              04050000
                                                                              04100000
                                                                              04150000
                                                                              04200000
                                                                              04250000
                                                                              04300000
                                                                              04350000
                            Journal record available
                                                                              04400000
  SMF42MCVTSFLG,*,1,BI Virtual tape server flag
                                                                              04450000
  SMF42MCENABLE,*,1,BI Control record enable flag
SMF42MLDTO,*,8,PD Local time/date offset
                                                                              04500000
                                                                              04600000
  SMF42MCJNRECN, *, 4, BI Journal record number
                                                                              04650000
  SMF42MJNRECNUM,*,4,BI Number of next jn rec written SMF42MCUPDVSI,*,4,BI VSI when MCUPDACT set on
                                                                              04700000
                                                                              04750000
  SMF42MCVSICNT,*,4,BI VSI control count
SMF42MCVRLCTK,*,8,BI VRSEL last change
                                                                              04800000
                         VRSEL last change token
                                                                              04850000
  SMF42MCVRSCNT,*,4,BI Current VRS change counter
                                                                              04900000
 SMF42MCVRSRUN,*,4,BI Last HSKP VRS change counter SMF42MCSYNCDT,*,4,BI Catsynch date
                                                                              04950000
                                                                              05000000
  SMF42MCSYNCTM, *, 4, BI Catsynch time
                                                                              05050000
* START OF OVERLAY AREA
                                                                             * 05200000
SMFADREC,*
                  START OF INFORMATION
                                                                              05300000
                                                                              05350000
```

EDGSRCSY: SMF record

EDGSRCSY provides the DFSORT symbol mapping for the DFSMSrmm SMF records. It is used with EDGSMFSY (for SMF audit records that use a user-written record type 128 to 255) and EDGS42SY (for SMF audit record type 42 subtype 22).

Here are the contents of EDGSRCSY:

```
* 00071200
   RMM Inventory Management SMF Record
                                                                    * 00106800
       DFSORT Symbol mapping
                                                                    * 00142400
                                                                   * 00178000
* z/OS DFSMSrmm V2R4
                                                                    * 00249200
                                                                    * 00284800
*PROPRIETARY V3 STATEMENT
                                                                    * 00320400
*LICENSED MATERIALS - PROPERTY OF IBM
                                                                   * 00356000
*"RESTRICTED MATERIALS OF IBM"
                                                                   * 00391600
*5650-Z0S
                                                                    * 00427200
*COPYRIGHT IBM CORP. 1993,2019
                                                                    * 00462800
*STATUS = HDZ2230
                                                                    * 00498400
*END PROPRIETARY V3 STATEMENT
                                                                    * 00534000
                                                                   * 00569600
******************** 00605200
* SEE "z/OS DFSMSrmm Reporting" FOR FIELD DETAILS ON RMM RECORDS * SEE "DFSORT APG" FOR DETAILS OF USING SYMBOLS.
                                                                   * 00640800
                                                                    * 00676400
* 00720900
* $MAC(EDGSRCSY) COMP(DF186) PROD(RMM) : DFSORT symbols for SMF record* 00729800
                                                                   * 00738700
* CHANGE ACTIVITY:
                                                                    * 00747600
* CHANGE ACTIVITY:

* $MZ=V1R10 ,1RA,070608,MB : SMF Forward Recovery

* $K1=K1A1055,1RA,070719,AH : Spelling errors

* $N1=V1R10 ,1RA,070809,WS : eRMM support

* $06=0A22706,1R7,071016,WS : Toleration for 0A22132

* $07=K1A2345,1RA,080313,BRB: changes for APAR 0A23266

* $SK=0A22132,1R7,070831,WS : 3592-G3 Support
                                                               @MZA * 00783200
                                                               @K1A * 00801000
                                                               @N1A * 00809900
                                                              @06A * 00814300
                                                              @07A * 00816500
                                                              @SKA * 00817600
  $SL=0A24025,1R8,080208,KHO: CA BTE API support
                                                               @SLA * 00818200
```

```
* $OF=RMMVEX ,1RD,100616,BRB: 5.2.4 CD VRSELEXCLUDE
                             @OFA * 00830600
00854400
* ACTION RECORD
                               * 00925600
00996800
          START AFTER EDGS42SY OR EDGSMFSY
POSITION, SMFADREC
                                01032400
* 01103600
 MAKEY, = , 56
                                01174800
                                01210400
             ACTION RECORD ID SYMBOL
                                01246000
                                01281600
                                01317200
                                01352800
                                01388400
                                01424000
                                01459600
                                01495200
                                01530800
                                01566400
                                01602000
                                01637600
                                01673200
                                01708800
                                01744400
                                01780000
* CONTROL INFORMATION
                               * 01851200
01922400
                                01958000
                                01993600
                                02029200
                                02064800
                                02100400
                                02136000
                                02171600
                                02207200
                                02242800
                                02278400
                                02314000
                                02349600
                                02385200
                                02420800
                                02456400
                                02492000
* ACTION RECORD SPECIFIC INFORMATION
                               * 02563200
MACOUNT,*,4,FI COUNT OF VOLS REQ THIS ACTION
MASFLAG,*,1,BI STATUS OF MOVES AND ACTIONS
MASCOMP,X'80' COMPLETED
MASPEND,X'40' PENDING
MASCONF,X'20' CONFIRMED
MASUNK,X'10' UNKNOWN
                                02634400
                                02670000
                                02705600
                                02741200
                                02776800
 MASUNK,X'10'
                                02812400
SKTP.7
            RESERVED
                                02848000
* END OF ACTION RECORD SPECIFICATION FILE RECORD
                                * 02919200
02990400
* END OF RMM MAREC
                               * 03061600
03132800
POSITION, SMFADREC START AFTER EDGSMFAR/IGWSMF
                                03168400
* KEY ETELD
                               * 03239600
```

```
DKEY,=,56

MDTYPE,=,1,CH
 MDTYPEID,'D'

MDDSNAME,*,44,CH
 MDVOLSER,*,6,CH
 SKIP,1

MDDSNSEQ,*,2,BI
 MDDSNSEQ,*,2,CH

MDPAD1,*,2,CH

RESERVED - BINARY ZEROS
  MDKEY, = , 56
                                        KEY FIELD
                                                                                                      03310800
                                                                                                      03346400
                                                                                                      03382000
                                                                                                      03417600
                                                                                                      03453200
                                                                                                      03488800
                                                                              @LLC 03524400
@K2C 03560000
******************** 03666800
                                                                                                      03702400
                                                                                                      03738000
                                                                                                      03773600
                                                                                                      03809200
                                                                                                      03844800
                                                                                                      03880400
                                                                                                      03916000
                                                                                                      03951600
                                                                                                      03987200
                                                                                                      04022800
                                                                                                      04058400
                                                                                                      04094000
                                                                                                      04129600
                                                                                                      04165200
                                                                                                      04200800
                                                                                              @K2A 04200850
                                                                                                      04236400
                                                                                                      04272000
                                                                                                      04307600
                                                                                                      04343200
MDTOTAL_BLKS,*,4,FI TOTAL BLOCK COUNT

MDSTART_POSN,*,1,BI FILE START MEDIA POSITION

MDEND_POSN,*,1,BI FILE END MEDIA POSITION

MDVOLSEQ,*,2,FI VOLUME SEQUENCE NUMBER

MDUNITAD,*,4,CH UNIT ADDRESS

MDRECFM,*,4,CH RECORD FORMAT

MDLRECL * 4 FT LOGTCAL RECORD LENGTH
                                                                                                      04485600
                                                                                          @01A 04521200
@01A 04556800
  MDEND_POSN,*,1,B
MDVOLSEQ,*,2,FI
MDUNITAD,*,4,CH
MDRECFM,*,4,CH
MDLRECL,*,4,FI
MDBLKSZ,*,4,FI
MDBLKCNT,*,4,FI
                                                                                                      04592400
                                                                                                      04628000
                                                                                                      04663600
                                        LOGICAL RECORD LENGTH
PHYSICAL BLOCK SIZE
                                                                                                      04699200
                                                                                                      04734800
                                         BLOCK COUNT
                                                                                                      04770400
                                        DATASET OWNER
SECURITY LEVEL
  MDOWNDSN, *, 8, CH
                                                                                                      04806000
  MDSECLEV, *, 1, BI
                                                                                                      04841600
                                        FROM JFCTRTCH - IDRC SUPPORT
DSN USED 3480 IDRC
  MDTRTCH,*,1,BI
MDTCOMP,X'08'
                                                                                                      04877200
                                                                                                      04912800
     MDTNCOMP,X'04'
                                           NO COMPACTION
                                                                                                      04948400
  MDFILSEQ,*,2,BI
MDTOKEN,*,8,CH
MDDSSIZE,*,4,FI
                                        LOGICAL FILE SEQUENCE NO
RESERVED FOR RMM INTERNAL USE
                                                                                                      04984000
                                                                                                      05019600
                                         DATASET SIZE IN KBYTES
                                                                                                      05055200
                                        DATE LAST READ - YYYYDDD
DATE LAST WRITTEN - YYYYDDD
  MDLRDATE, *, 4, PD
                                                                                                      05090800
  MDLWDATE,*,4,PD
MDFLAG,*,1,BI
MDFCAT,B'1.....'
MDFVRSR,B'.1.....'
MDFNOTCAT,B'.1....'
                                                                                                      05126400
                                        FLAG BYTE
                                                                                                      05162000
                                           DATA SET IS CATALOGED
                                                                                                      05197600
                                           DATA SET IS RETAINED BY VRS
INDICATES DS WAS FOUND NOT TO BE
                                                                                                      05233200
                                                                                                      05268800
                                               CATALOGED DURING VRS
                                                                                                      05304400
  MDFDELETED,B'...1...'
MDFABEND,B'....1...'
MDFOCEAB,B'....1..'
MDFORCE,B'.....1'
MDDEFRET,B'.....1'
MDESBEXPDTSETBY,*,1,FI
                                          DELETED by disposition
ABEND IN PROGRESS WHEN DATA SET CLOSED 05375600
                                           ABEND PROBABLY IN O/C/EOV
FORCE SUPPLIED
DEFAULT RETPD USED
                                                                                                      05411200
                                                                                                      05446800
                                                                                              @03A 05482400
    DESBEXPDTSETBY,*,1,F]
MDESB_UNKNOWN,0
MDESB_CMD,1
MDESB_CMD_DEF,2
MDESB_CMD_VOLCAT,3
MDESB_OCE_JFCB,4
MDESB_OCE_EXIT,5
MDESB_OCE_DEF,6
MDESB_OCE_MAX,7
MDESB_OCE_VOLCAT,8
MDESB_LCS,9
MDESB_LCS_DEF,10
MDESB_LCS_DEF,10
MDESB_TVEXTPURGE,11
MDESB_CNVT,12
MDESB_EXPORT,13
                                                                                              @08A 05495000
                                                                                              @08A 05507600
                                                                                               @08A 05509100
                                                                                               @08A 05510600
                                                                                               @08A 05512100
                                                                                               @08A 05513600
                                                                                               @08A 05515100
                                                                                               @08A 05516600
                                                                                               @08A 05518100
                                                                                               @08A 05519600
                                                                                               @08A 05521100
                                                                                               @08A 05522600
                                                                                               @08A 05524100
                                                                                               @08A 05525600
     MDESB_EXPORT,13
MDESB_LASTREF,14
MDESB_OCE_MC,15
                                                                                               @08A 05527100
                                                                                               @00A 05528400
                                                                                               @OVA 05529100
     MDESB_CATRETPD, 16
                                                                                               @M2A 05529110
     MDESB_CATLG_DAYS, 17
                                                                                               @M2A 05529120
```

```
@M3A
         MDESB_DEFTABLE,18
     MDSAVEXPDTSETBY, *, 1, FI
                                                        SAVED SETBY IF ESB_CATRETPD
                                                                                                                                 @M2C 05529200
     MDVRSTYP, *, 1, CH
MDVTD, 'D'
MDVTS, 'S'
MDVTV, 'V'
                                                        MATCHING VRS TYPE
                                                                                                                                          05553600
                                                            DATASET
                                                                                                                                          05589200
MDVTS, 'S'
MDVTV, 'V'
MDVTM, 'M'
MDACSMC, *, 8, CH
MDFACSMC, *, 8, CH
MDFACSMC, *, 8, CH
MDACSSG, *, 8, CH
MDACSSC, *, 8
                                                            SMSMC
                                                                                                                                          05624800
     SKIP,8

MDBLKIDS,*,4,FI

MDBLKIDE,*,4,FI

MDBLKIDE,*,4,FI

MDCPGM,*,8,CH

MDLPGM,*,8,CH

MDLPGM,*,8,CH

MDLJOB,*,8,CH

MDLSTEP,*,8,CH

MDLSTEP,*,8,CH

MDLDDNM,*,8,CH

MDLDDNM,*,8,CH

MDLDDNM,*,8,CH

MDLDDNM,*,8,CH

MDLDDNM,*,8,CH

MDLDEVN,*,4,CH

MDLDEVN,*,4,CH

SKIP,4

RESERVED

FILE START BLOCKID

FILE START BLOCKID

LESTING PROGRAM NAME

LAST USE PROGRAM NAME

LAST USE STEP NAME

LAST USE DD NAME

LAST USE DEVICE NUMBER

RESERVED
                                                                                                                                @01A 06479200
                                                                                                                                 @01A 06514800
                                                                                                                                @01A 06550400
                                                                                                                               @01A 06586000
  * FIXED LENGTH SECTION 3
                                                                                                                                @SJA 06657200
  @SLA 06704600
                                                                                                                                @SKA 06716400
                                                                                                                                 @SKA 06728200
                                                                                                                                 @SKA 06740000
                                                                                                                                 @OFA 06746000
                                                                                                                                 @OFA 06752000
                                                                                                                                @OKA 06752100
                                                                                                                                 @M2A 06752200
                                                                                                                                 @M2A 06752300
     MGFg1_WHILECAT_UX,B ...I.... WHILECATALOG(UNTILEXPIRED)

MSTP,3 RESERVED

MDLRED,*,4,FI LASTREF EXTRA DAYS

MDPHYS_SIZE,*,8,FI DATASET PHYSICAL SIZE IN KB

MDSAVEXPDT,*,4,PD SAVED EXPDT IF ESB_CATRETPD

MDSAVEXPTM,*,4,PD SAVED EXPTM IF ESB_CATRETPD

SKIP,12 RESERVED
                                                                                                                                 @00A 06755000
                                                                                                                                 @0QA 06758000
                                                                                                                                @SOA 06762400
                                                                                                                                @M2A 06762500
                                                                                                                                @M2A 06762600
                                                                                                                                @M2C 06763100
  ********************* 06764000
  * VARIABLE LENGTH SECTION
                                                                                                                                    * 06799600
    START DATE
                                                                                                                                          07298000
  * END OF DATA SET INFORMATION
                                                                                                                                      * 07369200
  * END OF RMM MDREC
                                                                                                                                       * 07511600
  07582800
                                                      START AFTER EDGSMFAR/IGWSMF
  POSITION.SMFADREC
                                                                                                                                          07618400
  * 07689600
  MKKEY,=,56 KEY OF VRS RECORD
MKTYPE,=,1,CH RECORD TYPE
MKTYPEID,'K' VRS RECORD ID
                                                                                                                                          07760800
                                                                                                                                          07796400
                                                                                                                                          07832000
```

```
MKTYPE2,*,1,CH
                                          VRS TYPE
                                                                                                                           07867600
  NAME VRS
NAME VRS
DATA SET VRS
VOLUME SERIAL MASK
NAME, =, 8, CH
MKDSNAME, =, 44, CH
MKGENKEY, *, 1, CH
MKGKSPEC, '0'
MKGKSPEC, '0'
MKGRTJBN, *, 8, CH
SET OF SERIES O
                                                VOLUME VRS
      MKTYPVOL,'V'
MKTYPNAM,'N'
MKTYPDSN,'D'
                                                                                                                           07903200
                                                                                                                           07938800
                                                                                                                           07974400
                                                                                                                           08010000
                                                                                                                           08045600
                                                                                                                           08081200
                                                GENERIC/SPECIFIC INDICATOR
                                                                                                                           08116800
                                                                                                                           08152400
   MKGKGEN, '1'
MKCRTJBN,*,8,CH JOB NAME RESERVED
                                                                                                                           08188000
                                                                                                                           08223600
                                                                                                                           08259200
**************************
                                                                                                                           08401600
                                                                                                                           08437200
                                                                                                                           08472800
                                                                                                                           08508400
                                                                                                                           08544000
                                                                                                                           08579600
                                                                                                                           08615200
                                                                                                                           08650800
                                                                                                                           08686400
                                                                                                                           08722000
                                                                                                                           08757600
                                                                                                                           08793200
                                                                                                                           08828800
                                                                                                                           08864400
                                                    SELECT - PROC BY SATELLITE UPDT
                                                                                                                           08900000
                                                                                                                           08935600
                                                                                                                           08971200
*********************
                                                                                                                           09113600
                                                                                                                           09149200
                                                                                                                           09184800
                                                                                                                           09220400
                                                                                                                           09256000
                                                                                                                           09291600
                                                                                                                           09327200
                                                                                                                           09362800
************************
* DATA SET NAME MASK TYPE
                                                                                                                         *09434000
***********************************
   ************************
  09825600
                                                                                                                           09861200
                                                                                                                           09896800
                                                                                                                           09932400
                                                                                                                           09968000
                                                                                                                           10003600
                                                                                                                           10039200
   MKLOC+LG,*,1,B1 LIBRARY SUL
MKLOC,*,8,CH LOCATION N
MKLHOM,'HOME' HOME
MKLLCL,'LOCAL' LOCAL
MKLREM,'REMOTE' REMOTE
MKLDIS,'DISTANT' DISTANT
MKLCUR,'CURRENT' CURRENT
                                                                                                                           10074800
                                                                                                                           10110400
                                                                                                                           10146000
                                                                                                                           10181600
                                                                                                                           10217200
                                                                                                                           10252800
** CAN ALSO BE DEFINED LIBRARY NAME
                                                                                                                           10288400
************************************
* VRS CONTROL INFORMATION
                                                                                                                        *10359600
************************************
   MKNEXT,*,8,CH

MKCOUNT,*,4,FI

MKLPRTY,*,2,FI

MKSTART,*,2,FI

MKSTART,*,2,FI
                                                NAME OF NEXTVRS OR ANDVRS
NBR OF CYCLES, DAYS, VOLUMES
LOCATION PRIORITY OVERRIDE
STORE START NUMBER
RESERVED
                                                                                                                         10430800
                                                                                                                           10466400
                                                                                                              10502000
@MCD 10537600
* MKSTART,*,2,FI
   SKIP,2
                                                 RESERVED
                                                                                                                 @MCA 10573200
    MKSTORE1, *, 4, FI
                                                 STORE KEEP NUMBER
                                                                                                                          10608800
                                                                                                       @MCD 10644400
@MCA 10680000
                                                 DISTANT STORE KEEP NUMBER
   MKSTORE2, *, 4, FI
   MKRLTIME, *, 4, PD
                                                 LAST REFERENCE TIME
   MKFLAGA, *, 1, BI
                                                 FLAG-A
                                                                                                                           10715600
                                MKNEXT IS ANDVRS() OPERAND
       MKFGAAND, X'80'
                                                                                                                           10751200
```

```
MKNEXT IS NEXTVRS() OPERAND
                                10786800
                                 10822400
                                 10858000
                                10893600
            NUMBER OF DAYS BEFORE MOVE
                                 10929200
                                 10964800
            VRS DELETE DATE (YYYYDDD)
                                 11000400
                                 11036000
                              @MCC 11071600
                              @MCA 11107200
******************** 11142800
                 END OF MKREC
                                 11178400
* 11249600
******************** 11285200
                                 11320800
            START AFTER EDGSMFAR/IGWSMF
                                 11356400
* 11427600
* KFY FTFID
11570000
                                 11605600
                                 11641200
                                 11676800
                                 11712400
                                 11748000
                                 11783600
11926000
                                 11961600
                                 11997200
                                 12032800
                                 12068400
                                 12104000
                                 12139600
                                12175200
                                 12210800
                                12246400
                                 12282000
                                 12317600
                                12353200
                                12388800
                                12424400
                                 12460000
                                 12495600
* OWNER DETAILS
                               * 12566800
ALIGN.F
                                 12638000
MOOWNDET, *, 311
                              @MEC 12673600
                                12709200
                                 12744800
                                 12780400
                                 12816000
                                 12851600
                                12887200
                                 12922800
                                12958400
                                 12994000
                                 13029600
                                 13065200
                             @MEA 13100800
MOODETND,*
                                 13136400
* OWNED VOLUME DETAILS
                               * 13207600
MOVOLENT_ARRAY,*,1600 ARRAY OF VOLUME ENTRIES

MOVOLENT_001,=,16 VOLUME ENTRY - 001

MOVOLSER_001,=,6,CH VOLUME SERIAL - 001

SKIP,2 RESERVED
                                13563600
                                 13599200
                                 13634800
                                 13670400
```

MOVOLENT 002, *, 16 MOVOLENT 003, *, 16 MOVOLENT 004, *, 8, 10 MOVOLENT 005, *, 16 MOVOLENT 006, *, 16 MOVOLENT 006, *, 16 MOVOLENT 007, *, 16 MOV			
MOVOLERE_002_*_6, CH SCIP_20_*_6, CH MOUNTT_003_*_8, B, CH MOUNTT_003_*_6, CH SCIP_20_*_6, CH MOVOLERE_003_*_6, CH SCIP_20_*_6, CH MOVOLERT_004_*_8, CH MOVOLERT_004_*_8, CH MOVOLERT_005_*_4, E MOVOLERT_005_*_6, CH MOVOLERT_005_*_6, CH MOVOLERT_005_*_6, CH MOVOLERT_006_*_8, CH MOVOLERT_008_*_8, CH MOVOLERT_011_*_1.6 CH MOV		UNIT TYPE - 001	13706000
SKIP.2 MOUNTI 092.*,8,CH MOVOLENT 093.*,16 MOVOLENT 093.*,16 MOVOLENT 093.*,16 MOVOLENT 094.*,16 MOVOLENT 094.*,16 MOVOLENT 094.*,16 MOVOLENT 094.*,16 MOVOLENT 094.*,16 MOVOLENT 094.*,16 MOVOLENT 095.*,16 MOVOLENT 095.*,16 MOVOLENT 096.*,16 MOVOLENT 096.*,16 MOVOLENT 096.*,16 MOVOLENT 096.*,16 MOVOLENT 096.*,16 MOVOLENT 097.*,16 MOVOLENT 098.*,16 MOVOLENT 099.*,16 MOVOL	MOVOLENT_002,*,16	VOLUME ENTRY - 002	
MOUNTI 903, *, 8, CH MOVOLER 903, *, 16. CH MOVOLER 903, *, 16. CH MOVOLER 904, *, 16. CH MOVOLER 905, *, 16. CH MOVOLER 906, *, 8, CH MOVOLER 907, *, 16. CH MOVOLER 907, *, 16. CH MOVOLER 907, *, 16. CH MOVOLER 908, *, 16. CH MOVOLER	$MOVOLSER_002, =, 6, CH$	VOLUME SERIAL - 002	13777200
MOUNTI 903, *, 8, CH MOVOLER 903, *, 16. CH MOVOLER 903, *, 16. CH MOVOLER 904, *, 16. CH MOVOLER 905, *, 16. CH MOVOLER 906, *, 8, CH MOVOLER 907, *, 16. CH MOVOLER 907, *, 16. CH MOVOLER 907, *, 16. CH MOVOLER 908, *, 16. CH MOVOLER	SKIP,2	RESERVED	13812800
MOVOLENT 093, *, 1.6 MOVOLENT 093, *, 1.6 MOVOLENT 094, *, 1.6 MOVOLENT 094, *, 1.6 MOVOLENT 095, *, 8, CH MOVOLENT 095, *, 8, CH MOVOLENT 096, *, 8, CH MOVOLENT 097, *, 1.6 MOVOLENT 098, *, 1.6 MOVOLENT 099, *, 8, CH MOVOLENT 099, *, 8, CH MOVOLENT 099, *, 8, CH MOVOLENT 091, *, 1.6 MO			13848400
MOVOLETR 093, *, 5, CH MOVIET 0903, *, 5, CH MOVIET 0903, *, 5, CH MOVIET 0904, *, 16, CH MOVIET 0905, *, 16, CH MOVIET 0907, *, 18, CH MOVIET 0907, *, 18, CH MOVIET 0907, *, 16, CH MOVIET 0		VOLUME ENTRY - 003	13884000
SKIP.2 PACKET PROVIDED 13990809 ON DITT TYPE 1093 13990809 ON DITT TYPE 1093 13990809 ON DITT TYPE 1094 140264009 ON DITT TYPE 1094 140264009 ON DITT TYPE 1095 14026009 ON DITT TYPE 1			
MOUNTT 003, *, 8, CH MOVOLEN 004, *, 8, CH MOVOLEN 005, *, 46 MOVOLEN 005, *, 46 MOVOLEN 005, *, 46 MOVOLEN 005, *, 46 MOVOLEN 005, *, 8, CH MOVOLEN 007, *, 16 MOVOLEN 007, *, 16 MOVOLEN 007, *, 8, CH MOVOLEN 007, *, 8,			
MOVOLENT_GOA_+_16 MOVOLESER_004,=_0,CH SKIF,2 MOVOLESER_005,=_0,CH MOVOL	·		
MOVOLER, 004, *, 8, CH MOVIET, 004, *, 8, CH MOVIET, 005, *, 16 MOVOLER, 005, -, 6, CH MOVIET, 005, *, 16 MOVOLER, 005, -, 6, CH MOVIET, 006, *, 16 MOVOLER, 005, -, 6, CH MOVIET, 006, *, 16 MOVOLER, 005, -, 6, CH MOVIET, 006, *, 16 MOVOLER, 005, -, 6, CH MOVIET, 006, *, 16 MOVOLER, 006, -, 6, CH MOVIET, 007, *, 16 MOVOLER, 007, -, 6, CH MOVIET, 007, *, 16 MOVIET, 007, *,			
SKIP_2 MOUNIT_004,*,8,CH MOVOLENT_005,*,16 UNIT_TYPE - 004 14132200 UNIT_TYPE - 005 14165800 MOVOLENT_005,*,8,CH MOVOLENT_006,*,8,CH MOVOLENT_006,*,8,CH MOVOLENT_006,*,8,CH MOVOLENT_006,*,8,CH MOVOLENT_006,*,8,CH MOVOLENT_007,*,16 UNIT_TYPE - 005 14275600 MOVOLENT_006,*,8,CH MOVOLENT_007,*,16 UNIT_TYPE - 006 1431220 MOVOLENT_007,*,16 UNIT_TYPE - 006 14344800 RESERVED 14382400 UNIT_TYPE - 006 14344800 RESERVED 14382400 MOVOLENT_007,*,16 UNIT_TYPE - 007 14453600 MOVOLENT_007,*,16 UNIT_TYPE - 008 1459600 MOVOLENT_007,*,16 UNIT_TYPE - 008 14667200 MOVOLENT_007,*,16 UNIT_TYPE - 008 14667200 MOVOLENT_007,*,16 UNIT_TYPE - 008 14667200 MOVOLENT_007,*,16 UNIT_TYPE - 008 14734400 MOVOLENT_007,*,16 UNIT_TYPE - 010 MOVOLENT_0	MOVOLENT_004, *, ±0		
MOUNTI 003, *, 8, CH MOVOLERT, 005, *, 6, CH MOVOLERT, 005, *, 6, CH MOVOLERT, 006, *, 8, CH MOVOLERT, 007, *, 16 MOVOLERT, 007, *, 16 MOVOLERT, 007, *, 8, CH MOVOLERT, 007, *, 8, CH MOVOLERT, 008, *, 8, CH MOVOLERT, 009, *, 16 MOVOLERT, 010, *, 16 MOVOLER, 010, *, 6, CH MOVOLERT, 010, *, 16 MOVOLER, 010, *, 6, CH MOVOLERT, 010, *, 16 MOVOLER, 010, *, 6, CH MOVOLERT, 010, *, 16 MOVOLER, 010, *, 6, CH MOVOLER, 0			
MOVOLENT 005			
MOVOLESER_005, =, 6, CH SKIP_2 NOUNTIT_006, *, *, 8, CH MOVOLENT_006, *, *, 6, CH MOVOLENT_007, *, *, 16 MOVOLENT_007, *, 16 MOVO			
RESERVED			
MOUNTT, 096, *, 8, CH MOVOLEST, 096, *, 6, CH MOVOLEST, 096, *, 6, CH MOVOLEST, 096, *, 8, CH MOVOLEST, 096, *, 8, CH MOVOLEST, 097, *, 8, CH MOVOLEST, 098, *, 16 MOVOLEST, 099, *, 8, CH MOVOLEST, 091, *, 8,			
MOVOLENT 086, *, 16			
MOVOLERT_006, =, 6, CH SKIP_2 MOUNTI_006, *, 8, CH MOVOLENT_007, *, 16 MOVOLENT_007, *, 16 MOVOLESER_007, =, 6, CH SKIP_12 MOUNTI_007, *, 8, CH MOUNTI_008, *, 8, CH MOUNTI_008, *, 8, CH MOVOLESER_009, =, 6, CH MOVOLESER_010, =, 6, CH			
SKTP, 2			
MOULETT 0007, **, 16			
MOVOLENT 007, *,16 MOVOLESE,007, -,6,0+ MOVOLESE,007, -,6,0+ MOVOLESE,007, -,6,0+ MOVOLESE,007, -,6,0+ MOVOLESE,008, *,16 MOVOLESE,008, *,16 MOVOLESE,008, -,6,0+ MOVOLESE,008, -,6,0+ MOVOLESE,008, -,6,0+ MOVOLESE,008, -,6,0+ MOVOLESE,009, -,8,0+ MOVOLE			
MOVOLESE, 067, =, 6, CH SKTP, 2 MOUNTT 087, *, 8, CH MOVOLENT 088, *, 16 MOVOLESE, 088, =, 6, CH SKTP, 2 MOUNT 198, *, 8, CH MOVOLESE, 089, =, 6, CH SKTP, 2 MOUNT 198, *, 8, CH MOVOLESE, 089, =, 6, CH SKTP, 2 MOUNT 199, *, 8, CH MOVOLESE, 089, =, 6, CH SKTP, 2 MOUNT 191, *, 8, CH MOVOLESE, 011, =, 6, CH SKTP, 2 MOUNT 191, *, 8, CH MOVOLESE, 011, =, 6, CH SKTP, 2 MOUNT 191, *, 8, CH MOVOLESE, 011, =, 6, CH MOVOLESE, 012, *, 16 MOVOLESE, 013, *, 8, CH MOVOLESE, 013, *, 8, CH MOVOLESE, 013, *, 8, CH MOVOLESE, 014, *, 16 MOVOLESE, 013, *, 8, CH MOVOLESE, 015, *, 6,			
SKIP.2			
MOULETT_0097,*,8,CH MOVILSTR_008,=,16,CH MOVILSTR_008,=,6,CH MOVILSTR_008,=,6,CH MOVILSTR_008,=,6,CH MOVILSTR_008,=,16,CH MOVILSTR_009,=,16 MOVILSTR_009,=,16 MOVILSTR_009,=,16 MOVILSTR_009,=,6,CH MOVILSTR_009,=,6,CH MOVILSTR_009,=,6,CH MOVILSTR_009,=,6,CH MOVILSTR_009,=,6,CH MOVILSTR_009,=,6,CH MOVILSTR_009,=,6,CH MOVILSTR_009,=,6,CH MOVILSTR_010,=,6,CH MOVILSTR_010,=,6,CH MOVILSTR_010,=,6,CH MOVILSTR_011,=,6,CH MOVILSTR_0			
MOVOLENT_008, *.16			
MOVULISËR_008, =, 6, CH			
SKIF, 2	MOVOLENT_008,*,16	VOLUME ENTRY - 008	
MOUNIT_008, *,8,CH UNIT TYPE - 008 14793800 MOVOLSER 009, *,6,CH VOLUME ENTRY - 009 14738400 MOVOLSER 009, *,6,CH VOLUME SERTAL - 009 14793800 MOVOLSER 019, *,6,CH VOLUME SERTAL - 009 14809600 MOVOLSER 010, *,6,CH VOLUME SERTAL - 010 14880800 MOVOLSER 010, *,6,CH VOLUME SERTAL - 010 1490600 MOVOLSER 011, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 011, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 011, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 012, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 012, *,6,CH VOLUME SERTAL - 011 15130000 MOVOLSER 012, *,6,CH VOLUME SERTAL - 012 15130600 MOVOLSER 013, *,6,CH VOLUME SERTAL - 012 15201200 MOVOLSER 013, *,6,CH VOLUME SERTAL - 012 15201200 MOVOLSER 013, *,6,CH VOLUME SERTAL - 013 1530800 MOVOLSER 013, *,6,CH VOLUME SERTAL - 014 MOVOLSER 013, *,6,CH VOLUME SERTAL - 015 MOVOLSER 015, *,6,CH VOLUME SERTAL - 014 MOVOLSER 015, *,6,CH VOLUME SERTAL - 015 MOVOLSER 015, *,6,CH VOLUME SERTAL - 016 MOVOLSER 017, *,6,CH VOLUME SERTAL - 017 MOVOLSER 015, *,6,CH VOLUME SERTAL - 018 MOVOLSER 015, *,6,CH VOLUME SERTAL - 019 MOVOLSER 016, *,6,CH VOLUME SERTAL - 015 MOVOLSER 015, *,6,CH VOLUME SERTAL - 016 MOVOLSER 017, *,6,CH VOLUME SERTAL - 017 MOVOLSER 017, *,6,CH VOLUME SERTAL - 018 MOVOLSER 017, *,6,CH VOLUME SERTAL - 019 MOVOLSER 017, *,6,CH VOLUME SERTAL - 019 MOVOLSER 017, *,6,CH VOLUME SERTAL - 019 MOVOLSER 017, *,6,CH VOLUME SERTAL - 010 MOVOLSER 017, *,6,CH VOLUME SERTAL - 011 MOVOLSER 017, *,6,CH VOLUME SERTAL - 011 MOVOLSER 017, *,6,CH VOLUME SERTAL - 010 MOVOLSER 017, *,6,C	$MOVOLSER_{008}$,=,6,CH	VOLUME SERIAL - 008	14631600
MOUNIT_008, *,8,CH UNIT TYPE - 008 14793800 MOVOLSER 009, *,6,CH VOLUME ENTRY - 009 14738400 MOVOLSER 009, *,6,CH VOLUME SERTAL - 009 14793800 MOVOLSER 019, *,6,CH VOLUME SERTAL - 009 14809600 MOVOLSER 010, *,6,CH VOLUME SERTAL - 010 14880800 MOVOLSER 010, *,6,CH VOLUME SERTAL - 010 1490600 MOVOLSER 011, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 011, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 011, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 012, *,6,CH VOLUME SERTAL - 011 15003800 MOVOLSER 012, *,6,CH VOLUME SERTAL - 011 15130000 MOVOLSER 012, *,6,CH VOLUME SERTAL - 012 15130600 MOVOLSER 013, *,6,CH VOLUME SERTAL - 012 15201200 MOVOLSER 013, *,6,CH VOLUME SERTAL - 012 15201200 MOVOLSER 013, *,6,CH VOLUME SERTAL - 013 1530800 MOVOLSER 013, *,6,CH VOLUME SERTAL - 014 MOVOLSER 013, *,6,CH VOLUME SERTAL - 015 MOVOLSER 015, *,6,CH VOLUME SERTAL - 014 MOVOLSER 015, *,6,CH VOLUME SERTAL - 015 MOVOLSER 015, *,6,CH VOLUME SERTAL - 016 MOVOLSER 017, *,6,CH VOLUME SERTAL - 017 MOVOLSER 015, *,6,CH VOLUME SERTAL - 018 MOVOLSER 015, *,6,CH VOLUME SERTAL - 019 MOVOLSER 016, *,6,CH VOLUME SERTAL - 015 MOVOLSER 015, *,6,CH VOLUME SERTAL - 016 MOVOLSER 017, *,6,CH VOLUME SERTAL - 017 MOVOLSER 017, *,6,CH VOLUME SERTAL - 018 MOVOLSER 017, *,6,CH VOLUME SERTAL - 019 MOVOLSER 017, *,6,CH VOLUME SERTAL - 019 MOVOLSER 017, *,6,CH VOLUME SERTAL - 019 MOVOLSER 017, *,6,CH VOLUME SERTAL - 010 MOVOLSER 017, *,6,CH VOLUME SERTAL - 011 MOVOLSER 017, *,6,CH VOLUME SERTAL - 011 MOVOLSER 017, *,6,CH VOLUME SERTAL - 010 MOVOLSER 017, *,6,C	SKIP,2	RESERVED	14667200
MOVOLENT_009, *,16 MOVOLESER_009, *,6,CH MOVIDISER_010, *,6,CH MOVIDISER_010, *,6,CH MOVOLENT_010, *,16 MOVOLESER_010, *,6,CH MOVOLESER_011, *,6,CH MOVOLESER_012, *,6,CH MOVOLESER_012, *,6,CH MOVOLESER_013, *,6,CH MOVOLESER_013, *,6,CH MOVOLESER_013, *,6,CH MOVOLESER_014, *,6,CH MOVOLESER_014, *,6,CH MOVOLESER_014, *,6,CH MOVOLESER_014, *,6,CH MOVOLESER_014, *,6,CH MOVOLESER_015, *,6,CH MOVOLESER_015, *,6,CH MOVOLESER_016, *,6,CH MOVOLESER_017, *,6,CH MOVOLESER_015, *,6,CH MOVOLESER_016, *,6,CH MOVOLESER_017, *,6,CH MOVOLESER_017, *,6,CH MOVOLESER_017, *,6,CH MOVOLESER_016, *,6,CH MOVOLESER_017, *,6,CH MOVOL		UNIT TYPE - 008	14702800
MOVOLSER, 099, =, 6, CH VOLUME SERTAL - 009 14774000 1489600 14090600 177, 20 1489600 1489600 1489600 1489600 1489600 1489600 1489600 14880800 1489600 14898600 14898600 14916400 14898600 14916400 14916		VOLUME ENTRY - 009	14738400
SKIP,2 MOUNTI,019,*,8,CH MOVOLSR,010,*,16 MOVOLSER,010,*,6,CH MOVOLSER,010,*,6,CH MOVOLSER,010,*,6,CH MOVOLSER,010,*,6,CH MOVOLSER,011,*,16 MOVOLSER,011,*,1			
MOUNIT_009,*,8,CH UNIT_TYPE - 009		RESERVED	14809600
MOVOLSR 101, 16, 16, CH MOVOLSER 010, = 6, CH MOVOLSER 010, = 8, CH MOVOLSER 011, = 8, CH MOVOLSER 011, = 1, 6, CH MOVOLSER 012, = 1, 6, CH MOVOLSER 013, = 1, 6, CH MOVOLSER 013, = 1, 6, CH MOVOLSER 013, = 6, CH MOVOLSER 014, = 1, 6, CH MOVOLSER 014, = 1, 6, CH MOVOLSER 015, = 6, CH MOVOLSER 016, = 6, CH MOVOLSER 017, = 6, CH MOVOLSER 018, = 6, CH MOVOLSER 019, = 6, CH			14845200
MOVOLSER_010,=,6,CH VOLUME SERIAL - 010 14916400 14952000 MOUNTT_010,*,8,CH UNIT TYPE - 010 14987600 MOVOLENT_011,*,16 VOLUME ENTRY - 011 15023200 MOVOLSER_011,=,6,CH VOLUME SERIAL - 011 15093200 MOVOLSER_011,*,6,CH VOLUME SERIAL - 011 15094400 MOVOLSER_012,*,6,CH VOLUME SERIAL - 012 15130000 MOVOLSER_012,*,6,CH VOLUME SERIAL - 012 15201200 SKIP,2 RESERVED 15236800 MOVOLSER_013,*,6,CH VOLUME SERIAL - 012 15201200 MOVOLSER_013,*,6,CH VOLUME SERIAL - 013 15343600 MOVOLSER_013,*,8,CH UNIT TYPE - 013 15343600 MOVOLSER_014,*,6,CH SKIP,2 RESERVED 15236800 MOVOLSER_014,*,6,CH SKIP,2 RESERVED 1524000 MOVOLSER_014,*,6,CH SKIP,2 RESERVED 1523600 MOVOLSER_015,*,16 VOLUME SERIAL - 014 15486000 MOVOLSER_014,*,6,CH SKIP,2 RESERVED 15521600 MOVOLSER_015,*,4,CH UNIT TYPE - 015 15528200 MOVOLSER_015,*,4,CH UNIT TYPE - 015 15528200 MOVOLSER_015,*,4,CH UNIT TYPE - 015 15528200 MOVOLSER_015,*,4,CH UNIT TYPE - 015 1564400 MOVOLSER_015,*,4,CH UNIT TYPE - 015 1564400 MOVOLSER_015,*,4,CH UNIT TYPE - 016 15735200 MOVOLSER_016,*,4,CH UNIT TYPE - 016 15735200 MOVOLSER_017,*,4,CH UNIT TYPE - 016 15735200 MOVOLSER_017,*,4,CH UNIT TYPE - 017 15806400 MOVOLSER_017,*,4,CH UNIT TYPE - 017 15806400 MOVOLSER_017,*,4,CH UNIT TYPE - 017 15806400 MOVOLSER_017,*,4,CH UNIT TYPE - 018 1602000 MOVOLSER_017,*,4,CH UNIT TYPE - 017 15806400 MOVOLSER_017,*,4,CH UNIT TYPE - 017 15806400 MOVOLSER_017,*,4,CH UNIT TYPE - 017 15806400 MOVOLSER_017,*,4,CH UNIT TYPE - 018 1602000 MOVOLSER_017,*,4,CH UNIT TYPE - 019 1612200 MOVOLSER_019,*,4,CH UN	_ , , ,		
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MOUNIT_010,*,8,CH UNIT TYPE - 010 MOVOLENT 011,*,16 MOVOLENT 011,*,16 MOVOLERT 011,*,6,CH VOLUME SERIAL - 011 SKIP,2 MOUNIT_011,*,8,CH UNIT TYPE - 011 MOVOLENT_012,*,16 MOVOLENT_012,*,16 MOVOLENT_012,*,16 MOVOLENT_012,*,8,CH UNIT TYPE - 012 SKIP,2 MOUNIT_013,*,8,CH UNIT TYPE - 012 MOVOLENT_013,*,8,CH UNIT TYPE - 013 MOVOLENT_013,*,8,CH UNIT TYPE - 014 MOVOLENT_014,*,16 MOVOLENT_014,*,16 MOVOLENT_015,*,8,CH UNIT TYPE - 014 MOVOLENT_015,*,8,CH UNIT TYPE - 014 MOVOLENT_016,*,16 MOVOLENT_016,*,16 MOVOLENT_016,*,16 MOVOLENT_015,*,8,CH UNIT TYPE - 015 MOVOLENT_016,*,16 MOVOLENT_015,*,8,CH UNIT TYPE - 015 MOVOLENT_016,*,16 MOVOLENT_015,*,8,CH UNIT TYPE - 015 MOVOLENT_016,*,16 MOVOLENT_017,*,16 MOVOLENT_019,*,16 MOVOLENT_019,*			
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MOVOLSER_012,=,6,CH VOLUME SERIAL - 012 15201200 SKIP.2 RESERVED 15236800 MOVOLENT_013,*,16 VOLUME ENTRY - 013 15308000 MOVOLSER_013,=,6,CH VOLUME SERIAL - 013 15308000 MOVOLSER_013,=,6,CH VOLUME SERIAL - 013 15308000 MOVOLSER_013,=,6,CH VOLUME SERIAL - 013 15349600 SKIP,2 RESERVED 15379200 MOVOLENT_014,*,16 VOLUME ENTRY - 014 15450400 MOVOLSER_014,=,6,CH VOLUME SERIAL - 014 15450400 MOVOLSER_014,=,6,CH VOLUME SERIAL - 014 15557200 MOVOLENT_015,*,16 VOLUME SERIAL - 015 1552800 MOVOLSER_015,*,6,CH VOLUME SERIAL - 015 1552800 MOVOLSER_015,*,6,CH VOLUME SERIAL - 015 15628400 SKIP,2 RESERVED 15664000 MOVOLSER_015,*,8,CH UNIT TYPE - 015 15628400 MOVOLSER_015,*,8,CH UNIT TYPE - 016 15735200 MOVOLSER_016,*,6,CH VOLUME SERIAL - 016 15735200 MOVOLSER_016,*,6,CH VOLUME SERIAL - 016 15735200 MOVOLSER_017,*,16 VOLUME SERIAL - 016 15735200 MOVOLSER_017,*,16 VOLUME SERIAL - 016 1570800 SKIP,2 RESERVED 1580400 MOVOLSER_017,*,16 VOLUME SERIAL - 017 1580400 MOVOLSER_017,*,16 VOLUME SERIAL - 017 1580400 MOVOLSER_018,*,6,CH VOLUME SERIAL - 017 15913200 RESERVED 1594800 MOVOLSER_018,*,6,CH VOLUME SERIAL - 017 15913200 SKIP,2 RESERVED 1594800 MOVOLSER_018,*,6,CH VOLUME SERIAL - 018 16092000 MOVOLSER_019,*,16 VOLUME SERIAL - 019 16128000 MOVOLSER_019,*,16 VOLUME SERIAL - 019 16233600 MOVOLSER_020,*,16 VOLUME SERIAL - 020 16340400 SKIP,2 RESERVED 16376000 MOVOLSER_020,*,16 VOLUME SERIAL - 020 16340400 SKIP,2 RESERVED 16376000 MOVOLSER_020,*,16 VOLUME SERIAL - 020 16340400 SKIP,2 RESERVED 16376000 MOVOLSER_020,*,8,CH VOLUME SERIAL - 020 1634000 MOVOLSER_020,*,8,CH	MOVOLENT 012, *, 16		
SKIP,2			
MOUNIT_012,*,8,CH UNIT TYPE - 012 MOVOLENT_013,*,16 VOLUME SERTAL - 013 SKIP,2 RESERVED MOUNIT_013,*,8,CH VOLUME SERTAL - 013 15343600 SKIP,2 MOUNIT_014,*,16 MOVOLENT_014,*,16 MOVOLENT_014,*,16 MOVOLENT_015,*,16 MOUNIT_015,*,16 MOVOLENT_015,*,16 MOVOLENT_015,*,16 MOVOLENT_015,*,16 MOVOLENT_015,*,16 MOVOLESE_015,=,6,CH SKIP,2 MOUNIT_016,*,3,CH MOVOLENT_016,*,16 MOVOLENT_016,*,16 MOVOLENT_016,*,16 MOVOLENT_016,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_017,*,3,CH MOVOLENT_019,*,16 MOVOLENT_019,*,16 MOVOLENT_019,*,16 MOVOLENT_019,*,3,CH MOVOLENT_019			
MOVOLENT 013, * 16			
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MOUNIT_013,*,8,CH UNIT TYPE - 013 15414800 MOVOLENT_014,*,16 VOLUME ENTRY - 014 1548000 SKIP,2 RESERVED 15521600 MOVOLENT_015,*,16 VOLUME ENTRY - 015 15592800 MOVOLENT_015,*,16 VOLUME SERIAL - 015 15628400 SKIP,2 RESERVED 1560400 MOVOLENT_015,*,8,CH UNIT TYPE - 015 15604000 MOVOLENT_015,*,8,CH UNIT TYPE - 015 15604000 MOVOLENT_015,*,8,CH UNIT TYPE - 015 15609600 MOVOLENT_016,*,16 VOLUME ENTRY - 016 15735200 MOVOLENT_016,*,8,CH UNIT TYPE - 016 15735200 MOVOLENT_017,*,16 VOLUME SERIAL - 016 15770800 SKIP,2 RESERVED 15806400 MOVOLENT_017,*,16,CH UNIT TYPE - 016 15842000 MOVOLENT_017,*,16,CH VOLUME ENTRY - 017 15877600 MOVOLENT_017,*,16,CH UNIT TYPE - 017 15913200 SKIP,2 RESERVED 15948800 MOVOLENT_019,*,16 VOLUME ENTRY - 018 16020000 MOVOLENT_019,*,16 VOLUME ENTRY - 018 16091200 MOVOLENT_019,*,16 VOLUME SERIAL - 019 16162400 MOVOLENT_019,*,16 VOLUME ENTRY - 019 16162400 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16269200 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16269200 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16304800 MOVOLENT_020,*,16 VOLUME ENTRY - 020 16340400 SKIP,2 RESERVED 16304800 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16310000 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16310000 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16310000 MOUNIT_020,*,8,CH UNIT TYPE - 020 16310000	= , , ,		
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MOVOLSĒR_014,=,6,CH VOLUME SERIAL - 014 15546000 SKIP,2 RESERVED 15521600 MOUNIT 014,*,8,CH UNIT TYPE - 014 15557200 MOVOLENT_015,*,16 VOLUME ENTRY - 015 15592800 MOVOLSĒR_015,=,6,CH VOLUME SERIAL - 015 15628400 SKIP,2 RESERVED 15664000 MOVOLENT_016,*,16 VOLUME ENTRY - 016 15735200 MOVOLSĒR_016,=,6,CH VOLUME ENTRY - 016 15735200 MOVOLSĒR_016,=,6,CH VOLUME SERIAL - 016 15735200 MOVOLSĒR_016,=,6,CH VOLUME SERIAL - 016 1570800 SKIP,2 RESERVED 15806400 MOUNIT_016,*,8,CH UNIT TYPE - 016 15842000 MOVOLENT_017,*,16 VOLUME ENTRY - 017 15913200 SKIP,2 RESERVED 15948800 MOVOLENT_017,*,8,CH UNIT TYPE - 017 15948400 MOVOLENT_018,*,16 VOLUME ENTRY - 018 16020000 MOVOLENT_018,*,16 VOLUME ENTRY - 018 16020000 MOVOLENT_018,*,16 VOLUME ENTRY - 018 16091200 MOVOLENT_019,*,16 VOLUME ENTRY - 019 16162400 MOVOLENT_019,*,16 VOLUME SERIAL - 019 1612800 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16269200 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16269200 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16340400 SKIP,2 RESERVED 16340400 SKIP,2 RESERVED 16340400 SKIP,2 RESERVED 1634000 MOVOLENT_019,*,8,CH UNIT TYPE - 020 16340400 SKIP,2 RESERVED 16376000 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16341600			15450400
SKIP,2			
MOUNIT_014,*,8,CH UNIT TYPE - 014 15557200 MOVOLENT_015,*,16 VOLUME ENTRY - 015 15592800 MOVOLSER_015,=,6,CH VOLUME SERIAL - 015 15628400 SKIP,2 RESERVED 15664000 MOVOLENT_016,*,16 VOLUME ENTRY - 016 15770800 MOVOLER_016,*,16 VOLUME ENTRY - 016 15770800 SKIP,2 RESERVED 15806400 MOUNIT_016,*,8,CH UNIT TYPE - 016 15806400 MOUNLENT_017,*,16 VOLUME ENTRY - 017 15913200 MOVOLENT_017,*,16 VOLUME ENTRY - 017 15913200 SKIP,2 RESERVED 15948800 MOUNIT_017,*,8,CH UNIT TYPE - 017 15948800 MOUNIT_017,*,8,CH UNIT TYPE - 017 15948400 MOVOLENT_018,*,16 VOLUME ENTRY - 018 16020000 MOVOLENT_018,*,16 VOLUME ENTRY - 018 16020000 MOVOLER_018,*,6,CH VOLUME SERIAL - 018 16091200 MOUNIT_018,*,8,CH UNIT TYPE - 018 16126800 MOVOLENT_019,*,16 VOLUME ENTRY - 019 16162400 MOVOLENT_019,*,16 VOLUME SERIAL - 019 16162400 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16269200 MOVOLENT_019,*,8,CH UNIT TYPE - 019 16269200 MOVOLENT_020,*,16 VOLUME ENTRY - 020 16304800 MOVOLENT_020,*,16 VOLUME ENTRY - 020 16304800 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16340400 SKIP,2 RESERVED 16304800 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16340400 SKIP,2 RESERVED 16376000 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16340400 SKIP,2 RESERVED 16376000 MOVOLENT_020,*,8,CH UNIT TYPE - 020 16340400			
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MOVOLSER_021,=,6,CH			
SKIP,2 RESERVED 16518400 MOUNTE 021 + 8 CH			
MOUNIT_021,*,8,CH UNIT TYPE - 021 16554000			
MOVOLENT_022,*,16	PIUVULENI_UZZ,*,16	VULUI'IE ENIRY - UZZ	10304000

MOVOLSER_022,=,6,CH	VOLUME SERIAL - 022	16625200
SKIP,2	RESERVED	16660800
MOUNIT 022,*,8,CH	UNIT TYPE - 022	16696400
MOVOLENT 023, *, 16	VOLUME ENTRY - 023	16732000
MOVOLSER_023,=,6,CH	VOLUME SERIAL - 023	16767600
SKIP,2	RESERVED	16803200
MOUNIT_023,*,8,CH	UNIT TYPE - 023	16838800
MOVOLENT_024, *, 16	VOLUME ENTRY - 024	16874400
MOVOLSER_024,=,6,CH	VOLUME SERIAL - 024	16910000
SKIP,2	RESERVED	16945600
MOUNIT_024, *, 8, CH	UNIT TYPE - 024	16981200
MOVOLENT_025, *, 16	VOLUME ENTRY - 025	17016800
MOVOLSER_025,=,6,CH	VOLUME SERIAL - 025	17052400
SKIP,2	RESERVED	17088000
MOUNIT_025,*,8,CH	UNIT TYPE - 025	17123600
MOVOLENT_026, *, 16	VOLUME ENTRY - 026	17159200
MOVOLSER_026,=,6,CH	VOLUME SERIAL - 026	17194800
SKIP,2	RESERVED	17230400
MOUNIT_026, *, 8, CH	UNIT TYPE - 026	17266000
MOVOLENT_027, *, 16	VOLUME ENTRY - 027	17301600
MOVOLSER_027,=,6,CH	VOLUME SERIAL - 027	17337200
SKIP,2	RESERVED	17372800
MOUNIT 027,*,8,CH	UNIT TYPE - 027	17408400
MOVOLENT_028,*,16	VOLUME ENTRY - 028	17444000
MOVOLSER 028,=,6,CH	VOLUME SERIAL - 028	17479600
	RESERVED	17515200
SKIP,2		
MOUNIT_028, *, 8, CH	UNIT TYPE - 028	17550800 17586400
MOVOLENT_029, *, 16	VOLUME ENTRY - 029	17586400
MOVOLSER_029,=,6,CH	VOLUME SERIAL - 029	17622000
SKIP,2	RESERVED	17657600
MOUNIT_029, *, 8, CH	UNIT TYPE - 029	17693200
MOVOLENT_030, *, 16	VOLUME ENTRY - 030	17728800
MOVOLSER_030,=,6,CH	VOLUME SERIAL - 030	17764400
SKIP,2	RESERVED	17800000
MOUNIT_030,*,8,CH	UNIT TYPE - 030	17835600
MOVOLENT 031, *, 16	VOLUME ENTRY - 031	17871200
MOVOLSER_031,=,6,CH	VOLUME SERIAL - 031	17906800
SKIP,2	RESERVED	17942400
MOUNIT 031,*,8,CH	UNIT TYPE - 031	17978000
MOVOLENT_032,*,16	VOLUME ENTRY - 032	18013600
MOVOLSER_032,=,6,CH	VOLUME SERIAL - 032	18049200
	RESERVED	18084800
SKIP,2		
MOUNIT_032,*,8,CH	UNIT TYPE - 032	18120400
MOVOLENT_033, *, 16	VOLUME ENTRY - 033	18156000
MOVOLSER_033,=,6,CH	VOLUME SERIAL - 033	18191600
SKIP,2	RESERVED	18227200
MOUNIT_033,*,8,CH	UNIT TYPE - 033	18262800
MOVOLENT_034,*,16	VOLUME ENTRY - 034	18298400
MOVOLSER_034,=,6,CH	VOLUME SERIAL - 034	18334000
SKIP,2	RESERVED	18369600
MOUNIT_034,*,8,CH	UNIT TYPE - 034	18405200
MOVOLENT_035, *, 16	VOLUME ENTRY - 035	18440800
$MOVOLSER_035,=,6,CH$	VOLUME SERIAL - 035	18476400
SKIP,2	RESERVED	18512000
MOUNIT_035,*,8,CH	UNIT TYPE - 035	18547600
MOVOLENT 036, *, 16	VOLUME ENTRY - 036	18583200
MOVOLSER 036,=,6,CH	VOLUME SERIAL - 036	18618800
SKIP,2	RESERVED	18654400
MOUNIT 036,*,8,CH	UNIT TYPE - 036	18690000
MOVOLENT 037, *, 16	VOLUME ENTRY - 037	18725600
MOVOLSER 037,=,6,CH	VOLUME SERIAL - 037	18761200
SKIP,2	RESERVED	18796800
MOUNIT_037,*,8,CH	UNIT TYPE - 037	18832400
MOVOLENT 038,*,16	VOLUME ENTRY - 038	18868000
	VOLUME SERIAL - 038	
MOVOLSER_038,=,6,CH	RESERVED	18903600 18939200
SKIP,2		
MOUNIT_038, *, 8, CH	UNIT TYPE - 038	18974800
MOVOLENT_039, *, 16	VOLUME ENTRY - 039	19010400
MOVOLSER_039,=,6,CH	VOLUME SERIAL - 039	19046000
SKIP,2	RESERVED	19081600
MOUNIT_039,*,8,CH	UNIT TYPE - 039	19117200
MOVOLENT_040,*,16	VOLUME ENTRY - 040	19152800
MOVOLSER_040,=,6,CH	VOLUME SERIAL - 040	19188400
SKIP,2	RESERVED	19224000
MOUNIT_040,*,8,CH	UNIT TYPE - 040	19259600
MOVOLENT_041,*,16	VOLUME ENTRY - 041	19295200
MOVOLSER_041,=,6,CH	VOLUME SERIAL - 041	19330800
SKIP,2	RESERVED	19366400
MOUNIT_041,*,8,CH	UNIT TYPE - 041	19402000
MOVOLENT 042, *, 16	VOLUME ENTRY - 042	19437600
MOVOLSER 042,=,6,CH	VOLUME SERIAL - 042	19473200
SKIP,2	RESERVED	19508800
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MOUNIT_042,*,8,CH	UNIT TYPE - 042	19544400
MOVOLENT 043,*,16	VOLUME ENTRY - 043	19580000
MOVOLSER 043,=,6,CH	VOLUME SERIAL - 043	19615600
SKIP,2	RESERVED	19651200
MOUNIT 043,*,8,CH	UNIT TYPE - 043	19686800
MOVOLENT 044,*,16	VOLUME ENTRY - 044	19722400
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MOVOLSER_044,=,6,CH	VOLUME SERIAL - 044	19758000
SKIP,2	RESERVED	19793600
MOUNIT_044,*,8,CH	UNIT TYPE - 044	19829200
MOVOLENT_045,*,16	VOLUME ENTRY - 045	19864800
MOVOLSĒR_045,=,6,CH	VOLUME SERIAL - 045	19900400
SKIP,2	RESERVED	19936000
MOUNIT 045,*,8,CH	UNIT TYPE - 045	19971600
MOVOLENT_046,*,16	VOLUME ENTRY - 046	20007200
MOVOLSER 046,=,6,CH	VOLUME SERIAL - 046	20042800
	RESERVED	20078400
SKIP,2	UNIT TYPE - 046	
MOUNIT_046, *, 8, CH		20114000
MOVOLENT_047, *, 16	VOLUME ENTRY - 047	20149600
MOVOLSER_047,=,6,CH	VOLUME SERIAL - 047	20185200
SKIP,2	RESERVED	20220800
MOUNIT_047,*,8,CH	UNIT TYPE - 047	20256400
MOVOLENT_048,*,16	VOLUME ENTRY - 048	20292000
MOVOLSER 048,=,6,CH	VOLUME SERIAL - 048	20327600
SKIP,2	RESERVED	20363200
MOUNIT_048, *, 8, CH	UNIT TYPE - 048	20398800
MOVOLENT_049, *, 16	VOLUME ENTRY - 049	20434400
$MOVOLSER_049, = , 6, CH$	VOLUME SERIAL - 049	20470000
SKIP,2	RESERVED	20505600
MOUNIT 049,*,8,CH	UNIT TYPE - 049	20541200
MOVOLENT 050, *, 16	VOLUME ENTRY - 050	20576800
MOVOLSER_050,=,6,CH	VOLUME SERIAL - 050	20612400
SKIP,2	RESERVED	20612400
MOUNIT_050, *, 8, CH	UNIT TYPE - 050	20683600
MOVOLENT_051,*,16	VOLUME ENTRY - 051	20719200
$MOVOLSER_051,=,6,CH$	VOLUME SERIAL - 051	20754800
SKIP,2	RESERVED	20790400
MOUNIT_051,*,8,CH	UNIT TYPE - 051	20826000
MOVOLENT_052,*,16	VOLUME ENTRY - 052	20861600
MOVOLSER 052,=,6,CH	VOLUME SERIAL - 052	20897200
SKIP,2	RESERVED	20932800
MOUNIT 052,*,8,CH	UNIT TYPE - 052	20968400
MOVOLENT_053,*,16	VOLUME ENTRY - 053	21004000
MOVOLSER_053,=,6,CH	VOLUME SERIAL - 053	21039600
SKIP,2	RESERVED	21075200
MOUNIT_053,*,8,CH	UNIT TYPE - 053	21110800
MOVOLENT_054,*,16	VOLUME ENTRY - 054	21146400
MOVOLSER_054,=,6,CH	VOLUME SERIAL - 054	21182000
SKIP,2	RESERVED	21217600
MOUNIT_054,*,8,CH	UNIT TYPE - 054	21253200
MOVOLENT 055, *, 16	VOLUME ENTRY - 055	21288800
MOVOLSER_055,=,6,CH	VOLUME SERIAL - 055	21324400
SKIP,2	RESERVED	21360000
MOUNIT_055,*,8,CH	UNIT TYPE - 055	21395600
	VOLUME ENTRY - 056	
MOVOLENT_056,*,16		21431200
MOVOLSER_056,=,6,CH	VOLUME SERIAL - 056	21466800
SKIP,2	RESERVED	21502400
MOUNIT_056,*,8,CH	UNIT TYPE - 056	21538000
MOVOLENT_057,*,16	VOLUME ENTRY - 057	21573600
$MOVOLSER_057, = , 6, CH$	VOLUME SERIAL - 057	21609200
SKIP,2	RESERVED	21644800
MOUNIT 057,*,8,CH	UNIT TYPE - 057	21680400
MOVOLENT 058, *, 16	VOLUME ENTRY - 058	21716000
	VOLUME SERIAL - 058	21751600
MOVOLSER_058,=,6,CH		
SKIP,2	RESERVED	21787200
MOUNIT_058, *, 8, CH	UNIT TYPE - 058	21822800
MOVOLENT_059,*,16	VOLUME ENTRY - 059	21858400
$MOVOLSER_059, =, 6, CH$	VOLUME SERIAL - 059	21894000
SKIP,2	RESERVED	21929600
MOUNIT_059, *, 8, CH	UNIT TYPE - 059	21965200
MOVOLENT_060, *, 16	VOLUME ENTRY - 060	22000800
MOVOLSER 060,=,6,CH	VOLUME SERIAL - 060	22036400
SKIP,2	RESERVED	22072000
MOUNIT 060,*,8,CH	UNIT TYPE - 060	22107600
	VOLUME ENTRY - 061	22143200
MOVOLENT_061,*,16		
MOVOLSER_061,=,6,CH	VOLUME SERIAL - 061	22178800
SKIP,2	RESERVED	22214400
MOUNIT_061, *, 8, CH	UNIT TYPE - 061	22250000
MOVOLENT_062,*,16	VOLUME ENTRY - 062	22285600
$MOVOLSER_062,=,6,CH$	VOLUME SERIAL - 062	22321200
SKIP,2	RESERVED	22356800
MOUNIT_062,*,8,CH	UNIT TYPE - 062	22392400
MOVOLENT 063, *, 16	VOLUME ENTRY - 063	22428000
, ,		

MOVOLSER_063,=,6,CH	VOLUME SERIAL - 063	22463600
SKIP,2	RESERVED	22499200
MOUNIT 063,*,8,CH	UNIT TYPE - 063	22534800
MOVOLENT_064, *, 16	VOLUME ENTRY - 064	22570400
MOVOLSER 064,=,6,CH	VOLUME SERIAL - 064	22606000
SKIP,2	RESERVED	22641600
MOUNIT 064,*,8,CH	UNIT TYPE - 064	22677200
MOVOLENT 065,*,16	VOLUME ENTRY - 065	22712800
MOVOLSER_065,=,6,CH	VOLUME SERIAL - 065	22748400
SKIP,2	RESERVED	22784000
MOUNIT_065, *, 8, CH	UNIT TYPE - 065	22819600
MOVOLENT_066, *, 16	VOLUME ENTRY - 066	22855200
MOVOLSER_066,=,6,CH	VOLUME SERIAL - 066	22890800
SKIP,2	RESERVED	22926400
MOUNIT_066,*,8,CH	UNIT TYPE - 066	22962000
MOVOLENT_067, *, 16	VOLUME ENTRY - 067	22997600
MOVOLSER_067,=,6,CH	VOLUME SERIAL - 067	23033200
SKIP,2	RESERVED	23068800
MOUNIT_067,*,8,CH	UNIT TYPE - 067	23104400
MOVOLENT 068, *, 16	VOLUME ENTRY - 068	23140000
MOVOLSER 068,=,6,CH	VOLUME SERIAL - 068	23175600
SKIP,2	RESERVED	23211200
MOUNIT 068,*,8,CH	UNIT TYPE - 068	23246800
MOVOLENT 069,*,16	VOLUME ENTRY - 069	23282400
MOVOLSER 069,=,6,CH	VOLUME SERIAL - 069	23318000
SKIP,2	RESERVED	23318000
MOUNIT 069,*,8,CH	UNIT TYPE - 069	23389200
	VOLUME ENTRY - 070	23389200
MOVOLENT_070,*,16		
MOVOLSER_070,=,6,CH	VOLUME SERIAL - 070	23460400
SKIP,2	RESERVED	23496000
MOUNIT_070, *, 8, CH	UNIT TYPE - 070	23531600
MOVOLENT_071, *, 16	VOLUME ENTRY - 071	23567200
MOVOLSER_071,=,6,CH	VOLUME SERIAL - 071	23602800
SKIP,2	RESERVED	23638400
MOUNIT_071,*,8,CH	UNIT TYPE - 071	23674000
MOVOLENT 072, *, 16	VOLUME ENTRY - 072	23709600
$MOVOLSER_072,=,6,CH$	VOLUME SERIAL - 072	23745200
SKIP,2	RESERVED	23780800
MOUNIT 072,*,8,CH	UNIT TYPE - 072	23816400
MOVOLENT_073, *, 16	VOLUME ENTRY - 073	23852000
MOVOLSER_073,=,6,CH	VOLUME SERIAL - 073	23887600
SKIP,2	RESERVED	23923200
MOUNIT_073,*,8,CH	UNIT TYPE - 073	23958800
	VOLUME ENTRY - 074	
MOVOLENT_074,*,16		23994400
MOVOLSER_074,=,6,CH	VOLUME SERIAL - 074	24030000
SKIP,2	RESERVED	24065600
MOUNIT_074, *, 8, CH	UNIT TYPE - 074	24101200
MOVOLENT_075,*,16	VOLUME ENTRY - 075	24136800
MOVOLSER_075,=,6,CH	VOLUME SERIAL - 075	24172400
SKIP,2	RESERVED	24208000
MOUNIT_075,*,8,CH	UNIT TYPE - 075	24243600
MOVOLENT_076, *, 16	VOLUME ENTRY - 076	24279200
$MOVOLSER_076,=,6,CH$	VOLUME SERIAL - 076	24314800
SKIP,2	RESERVED	24350400
MOUNIT_076,*,8,CH	UNIT TYPE - 076	24386000
MOVOLENT_077,*,16	VOLUME ENTRY - 077	24421600
$MOVOLSER_077, = , 6, CH$	VOLUME SERIAL - 077	24457200
SKIP,2	RESERVED	24492800
MOUNIT 077,*,8,CH	UNIT TYPE - 077	24528400
MOVOLENT 078, *, 16	VOLUME ENTRY - 078	24564000
MOVOLSER 078,=,6,CH	VOLUME SERIAL - 078	24599600
SKIP,2	RESERVED	24635200
MOUNIT_078,*,8,CH	UNIT TYPE - 078	24670800
MOVOLENT 079, *, 16	VOLUME ENTRY - 079	24706400
MOVOLSER 079,=,6,CH	VOLUME SERIAL - 079	24742000
	RESERVED	24742000
SKIP,2		
MOUNIT_079, *, 8, CH	UNIT TYPE - 079	24813200
MOVOLENT_080, *, 16	VOLUME ENTRY - 080	24848800
MOVOLSER_080,=,6,CH	VOLUME SERIAL - 080	24884400
SKIP,2	RESERVED	24920000
MOUNIT_080, *, 8, CH	UNIT TYPE - 080	24955600
MOVOLENT_081,*,16	VOLUME ENTRY - 081	24991200
MOVOLSER_081,=,6,CH	VOLUME SERIAL - 081	25026800
SKIP,2	RESERVED	25062400
MOUNIT_081,*,8,CH	UNIT TYPE - 081	25098000
MOVOLENT_082,*,16	VOLUME ENTRY - 082	25133600
MOVOLSER_082,=,6,CH	VOLUME SERIAL - 082	25169200
SKIP,2	RESERVED	25204800
MOUNIT_082,*,8,CH	UNIT TYPE - 082	25240400
MOVOLENT 083, *, 16	VOLUME ENTRY - 083	25276000
MOVOLSER 083,=,6,CH	VOLUME SERIAL - 083	25311600
SKIP,2	RESERVED	25347200

MOUNIT_083,*,8,CH	UNIT TYPE - 083	25382800
MOVOLENT 084,*,16	VOLUME ENTRY - 084	25418400
MOVOLSER_084,=,6,CH	VOLUME SERIAL - 084	25454000
SKIP,2	RESERVED	25489600
MOUNIT 084,*,8,CH	UNIT TYPE - 084	25525200
MOVOLENT 085, *, 16	VOLUME ENTRY - 085	25560800
MOVOLSER_085,=,6,CH	VOLUME SERIAL - 085	25596400
SKIP,2	RESERVED	25632000
MOUNIT_085,*,8,CH	UNIT TYPE - 085	25667600
MOVOLENT 086, *, 16	VOLUME ENTRY - 086	25703200
MOVOLSER_086,=,6,CH	VOLUME SERIAL - 086	25738800
	RESERVED	25774400
SKIP,2	UNIT TYPE - 086	
MOUNIT_086,*,8,CH MOVOLENT 087,*,16	VOLUME ENTRY - 087	25810000 25845600
MOVOLSER 087,=,6,CH	VOLUME SERIAL - 087	25881200
= ' ' ' '		
SKIP,2	RESERVED	25916800
MOUNIT_087, *, 8, CH	UNIT TYPE - 087	25952400
MOVOLENT_088, *, 16	VOLUME ENTRY - 088	25988000
MOVOLSER_088,=,6,CH	VOLUME SERIAL - 088	26023600
SKIP,2	RESERVED	26059200
MOUNIT_088, *, 8, CH	UNIT TYPE - 088	26094800
MOVOLENT_089, *, 16	VOLUME ENTRY - 089	26130400
MOVOLSER_089,=,6,CH	VOLUME SERIAL - 089	26166000
SKIP,2	RESERVED	26201600
MOUNIT_089, *, 8, CH	UNIT TYPE - 089	26237200
MOVOLENT_090, *, 16	VOLUME ENTRY - 090	26272800
MOVOLSER_090,=,6,CH	VOLUME SERIAL - 090	26308400
SKIP,2	RESERVED	26344000
MOUNIT_090, *, 8, CH	UNIT TYPE - 090	26379600
MOVOLENT_091,*,16	VOLUME ENTRY - 091	26415200
MOVOLSER_091,=,6,CH	VOLUME SERIAL - 091	26450800
SKIP,2	RESERVED	26486400
MOUNIT_091,*,8,CH	UNIT TYPE - 091	26522000
MOVOLENT_092, *, 16	VOLUME ENTRY - 092	26557600
MOVOLSER_092,=,6,CH	VOLUME SERIAL - 092	26593200
SKIP,2	RESERVED	26628800
MOUNIT_092,*,8,CH	UNIT TYPE - 092	26664400
MOVOLENT_093, *, 16	VOLUME ENTRY - 093	26700000
MOVOLSER_093,=,6,CH	VOLUME SERIAL - 093	26735600
SKIP,2	RESERVED	26771200
MOUNIT_093, *, 8, CH	UNIT TYPE - 093	26806800
MOVOLENT_094,*,16	VOLUME ENTRY - 094	26842400
$MOVOLSER_094,=,6,CH$	VOLUME SERIAL - 094	26878000
SKIP,2	RESERVED	26913600
MOUNIT_094, *, 8, CH	UNIT TYPE - 094	26949200
MOVOLENT_095,*,16	VOLUME ENTRY - 095	26984800
MOVOLSER_095,=,6,CH	VOLUME SERIAL - 095	27020400
SKIP,2	RESERVED	27056000
MOUNIT_095, *, 8, CH	UNIT TYPE - 095	27091600
MOVOLENT_096, *, 16	VOLUME ENTRY - 096	27127200
MOVOLSER_096,=,6,CH	VOLUME SERIAL - 096	27162800
SKIP,2	RESERVED	27198400
MOUNIT_096,*,8,CH	UNIT TYPE - 096	27234000
MOVOLENT_097, *, 16	VOLUME ENTRY - 097	27269600
MOVOLSER_097,=,6,CH	VOLUME SERIAL - 097	27305200
SKIP,2	RESERVED	27340800
MOUNIT_097, *, 8, CH	UNIT TYPE - 097	27376400
MOVOLENT_098,*,16	VOLUME ENTRY - 098	27412000
MOVOLSER_098,=,6,CH	VOLUME SERIAL - 098	27447600
SKIP,2	RESERVED	27483200
MOUNIT_098, *, 8, CH	UNIT TYPE - 098	27518800
MOVOLENT_099, *, 16	VOLUME ENTRY - 099	27554400
MOVOLSER_099,=,6,CH	VOLUME SERIAL - 099	27590000
SKIP,2	RESERVED	27625600
MOUNIT_099, *, 8, CH	UNIT TYPE - 099	27661200
MOVOLENT_100, *, 16	VOLUME ENTRY - 100	27696800
MOVOLSER_100,=,6,CH	VOLUME SERIAL - 100	27732400
SKIP,2	RESERVED	27768000
MOUNIT_100,*,8,CH	UNIT TYPE - 100	27803600

* END OF OWNER INFORMATION		27874800

MORCEND,*	END OF MOREC	27946000

* END OF RMM MOREC		28017200

*	OTABL AFTER EDOCUTES (TOURS	28088400
POSITION, SMFADREC	START AFTER EDGSMFAR/IGWSMF	28124000

* KEY FIELD		28195200

MPKEY,=,56	KEY FIELD	28266400

```
MPTYPE, =, 1, CH RECORD TYPE
                                                                           28302000
      MPTYPEID, 'P'
                               PP RECORD ID SYMBOL
                                                                           28337600
* START OF RMM MPREC
                                                                         * 28408800
MPPPNUM, *, 8, CH PP NUMBER (NNNN-CCC)
                                                                           28480000
                           VERSION/RELEASE/MOD NUMBER
RESERVED
  MPVER, *, 6, CH
                                                                           28515600
  SKIP,41
                                                                           28551200
*********************** 28586800
* CONTROL INFORMATION
                                                                         * 28622400
MPRECLN,*,2,FI RECORD LENGTH
                                                                           28693600
 SKIP,2

MPCRDATE,*,4,PD

MPCRTIME,*,4,PD

MPCRSID,*,8,CH

MPRCCDS,*,8,CH

MPLCDATE,*,4,PD

MPLCTIME,*,4,PD

MPLCTIME,*,4,PD

MPLCTIME,*,4,PD

MPLCTIME,*,4,PD

MPLCTIME,*,4,PD

MPLCTIME,*,4,PD

MPLCUID,*,8,CH

MPLCSID,*,8,CH

MPLCSID,*,8,CH

MPLCSID,*,8,CH

MPLCSID,*,8,CH

MPLCSID,*,8,CH

MPLCDATE,*,4,PD

LAST CHANGE USER ID

LAST CHANGE SYSTEM ID

MPLCSID,*,8,CH

LAST CHANGE SYSTEM ID

LAST "USER" CHANGE DATE

LAST "USER" CHANGE TIME
  SKIP,2
MPCRDATE,*,4,PD
                              RESERVED
                                                                           28729200
                                                                           28764800
                                                                           28800400
                                                                           28836000
                                                                           28871600
                             LAST CHANGE DATE - YYYYDDD
LAST CHANGE TIME - HHMMSST
                                                                           28907200
                                                                           28942800
                                                                           28978400
                                                                           29014000
                                                                           29049600
  MPUCTIME,*,4,PD
MPCFLG,*,1,BI
                              LAST "USER" CHANGE TIME
                                                                           29085200
                             CONTROL FLAGS 1
                                                                           29120800
                             RECORD DELETED
    MPDELFLG, X'80'
                                                                           29156400
                                SELECT - PROC BY SATELLITE UPDT
DUMMY RECORD - ALLOW TSO ADD
    MPSELFLG, X'10'
                                                                           29192000
                     RESERVED
                                                                           29227600
    MPDUMMY, X'08'
  SKIP,7
                                                                           29263200
* PROGRAM PRODUCT DETAILS
                                                                         * 29334400
MPPPOWN,*,8,CH PROGRAM PRODUCT OWNER ID
MPPPNAME,*,30,CH PROGRAM PRODUCT NAME
MPPPDESC,*,30,CH PROGRAM PRODUCT DESCRIPTION
SKIP,64 RESERVED
                                                                           29405600
                                                                           29441200
                              PROGRAM PRODUCT DESCRIPTION
                                                                           29476800
                                                                           29512400
* PROGRAM PRODUCT VOLUME DETAILS
                                                                         * 29583600
********************* 29619200
  MPVOLDET,*,4

MPVOLNO,=,2,FI

SKTP 2

WOLUME DETAILS

NO OF PP VOLS

PESERVED
                                                                           29654800
                                                                           29690400
                             RESERVED
    SKIP,2
                                                                           29726000
ARRAY OF VOLUME ENTRIES
VOLUME ENTRY - 001
VOLUME SERIAL - 001
  MPVOLENT_ARRAY, *,8160
                                                                           29904000
    MPV0LENT_001,=,32
                                                                           29939600
      MPVOLSER_001,=,6,CH
                                                                           29975200
                              RACK NUMBER - 001
FEATURE CODE - 001
      MPRACK_001,*,6,CH
                                                                           30010800
      MPFEAT_001, *, 4, CH
                                                                           30046400
                              UNIT TYPE - 001
      MPUNIT_001, *, 8, CH
                                                                           30082000
                              RESERVED
      SKIP,8
                                                                           30117600
                              VOLUME ENTRY - 002
VOLUME SERIAL - 002
    MPVOLENT_002,*,32
                                                                           30153200
      MPVOLSER_002, =, 6, CH
                                                                           30188800
      MPRACK_002,*,6,CH
                              RACK NUMBER - 002
                                                                           30224400
      MPFEAT_002,*,4,CH
MPUNIT_002,*,8,CH
                              FEATURE CODE - 002
                                                                           30260000
                              UNIT TYPE - 002
                                                                           30295600
                              RESERVED
      SKIP,8
                                                                           30331200
    MPVOLENT_003,*,32
MPVOLSER_003,=,6,CH
                              VOLUME ENTRY - 003
VOLUME SERIAL - 003
                                                                           30366800
                                                                           30402400
                              RACK NUMBER - 003
FEATURE CODE - 003
                                                                           30438000
      MPRACK_0\bar{0}3,*,6,CH
      MPFEAT_003, *, 4, CH
                                                                           30473600
                              UNIT TYPE - 003
      MPUNIT_003, *, 8, CH
                                                                           30509200
      SKIP,8
                              RESERVED
                                                                           30544800
                              VOLUME ENTRY - 004
VOLUME SERIAL - 004
    MPVOLENT_004,*,32
                                                                           30580400
      MPVOLSER_004, = , 6, CH
                                                                           30616000
      MPRACK_004,*,6,CH
                              RACK NUMBER - 004
                                                                           30651600
                              FEATURE CODE - 004
      MPFEAT_004, *, 4, CH
                                                                           30687200
                              UNIT TYPE - 004
      MPUNIT_004,*,8,CH
                                                                           30722800
      SKIP.8
                              RESERVED
                                                                           30758400
    MPVOLENT_005, *, 32
                              VOLUME ENTRY - 005
                                                                           30794000
                              VOLUME SERIAL - 005
      MPVOLSER_005, =, 6, CH
                                                                           30829600
                              RACK NUMBER - 005
FEATURE CODE - 005
      MPRACK_005,*,6,CH
                                                                           30865200
      MPFEAT_005,*,4,CH
MPUNIT_005,*,8,CH
                                                                           30900800
                              UNIT TYPE - 005
                                                                           30936400
      SKIP,8
                              RESERVED
                                                                           30972000
    MPVOLENT 006,*,32
                              VOLUME ENTRY - 006
                                                                           31007600
      MPVOLSER_006, = , 6, CH
                              VOLUME SERIAL - 006
                                                                           31043200
      MPRACK_006,*,6,CH
MPFEAT_006,*,4,CH
                              RACK NUMBER - 006
FEATURE CODE - 006
                                                                           31078800
                                                                           31114400
                              UNIT TYPE - 006
      MPUNIT_006,*,8,CH
                                                                           31150000
      SKIP,8
                              RESERVED
                                                                           31185600
```

MPVO	LENT_007,*,32	VOLUME ENTRY - 007	31221200
MP'	VOLSER_007,=,6,CH	VOLUME SERIAL - 007	31256800
	RACK_007,*,6,CH	RACK NUMBER - 007	31292400
			31328000
	FEAT_007, *, 4, CH	FEATURE CODE - 007	
	UNIT_007,*,8,CH	UNIT TYPE - 007	31363600
SK.	IP,8	RESERVED	31399200
MPVO	LENT_008,*,32	VOLUME ENTRY - 008	31434800
MP'	VOLSER 008,=,6,CH	VOLUME SERIAL - 008	31470400
MP	RACK_008,*,6,CH	RACK NUMBER - 008	31506000
	FEAT 008, *, 4, CH	FEATURE CODE - 008	31541600
	UNIT_008, *, 8, CH	UNIT TYPE - 008	31577200
	IP,8	RESERVED	31612800
MPVO	LENT_009,*,32	VOLUME ENTRY - 009	31648400
MP'	VOLSER_009,=,6,CH	VOLUME SERIAL - 009	31684000
MPI	RACK 009,*,6,CH	RACK NUMBER - 009	31719600
MP	FEAT_009,*,4,CH	FEATURE CODE - 009	31755200
	UNIT_009,*,8,CH	UNIT TYPE - 009	31790800
	IP,8	RESERVED	31826400
	LENT_010,*,32	VOLUME ENTRY - 010	31862000
	VOLSER_010,=,6,CH	VOLUME SERIAL - 010	31897600
MP	RACK_010,*,6,CH	RACK NUMBER - 010	31933200
MP	FEAT_010,*,4,CH	FEATURE CODE - 010	31968800
MP	UNIT 010,*,8,CH	UNIT TYPE - 010	32004400
	IP,8	RESERVED	32040000
	LENT 011,*,32	VOLUME ENTRY - 011	32075600
	VOLSER 011,=,6,CH	VOLUME SERIAL - 011	32111200
	RACK_011,*,6,CH	RACK NUMBER - 011	32146800
	FEAT_011,*,4,CH	FEATURE CODE - 011	32182400
MP	UNIT_011,*,8,CH	UNIT TYPE - 011	32218000
	IP,8	RESERVED	32253600
	LENT_012,*,32	VOLUME ENTRY - 012	32289200
	VOLSER_012,=,6,CH	VOLUME SERIAL - 012	32324800
	RACK_012,*,6,CH	RACK NUMBER - 012	32360400
MPI	FEAT_012,*,4,CH	FEATURE CODE - 012	32396000
MP	UNIT_012,*,8,CH	UNIT TYPE - 012	32431600
SK:	IP,8	RESERVED	32467200
MPVO	LENT_013,*,32	VOLUME ENTRY - 013	32502800
	VOLSER_013,=,6,CH	VOLUME SERIAL - 013	32538400
	RACK 013,*,6,CH	RACK NUMBER - 013	32574000
		FEATURE CODE - 013	32609600
	FEAT_013,*,4,CH		
	UNIT_013,*,8,CH	UNIT TYPE - 013	32645200
	IP,8	RESERVED	32680800
MPVO	LENT_014,*,32	VOLUME ENTRY - 014	32716400
MP'	VOLSER_014,=,6,CH	VOLUME SERIAL - 014	32752000
	RACK_014, *, 6, CH	RACK NUMBER - 014	32787600
	FEAT 014,*,4,CH	FEATURE CODE - 014	32823200
	UNIT 014, *, 8, CH	UNIT TYPE - 014	32858800
SN.	IP,8	RESERVED	32894400
	LENT_015, *, 32	VOLUME ENTRY - 015	32930000
	VOLSER_015,=,6,CH	VOLUME SERIAL - 015	32965600
	RACK_015,*,6,CH	RACK NUMBER - 015	33001200
MP	FEAT 015,*,4,CH	FEATURE CODE - 015	33036800
MP	UNIT_015,*,8,CH	UNIT TYPE - 015	33072400
SK	IP,8	RESERVED	33108000
	LENT_016,*,32	VOLUME ENTRY - 016	33143600
		VOLUME SERIAL - 016	33179200
	VOLSER_016,=,6,CH		
	RACK_016, *, 6, CH	RACK NUMBER - 016	33214800
	FEAT_016, *, 4, CH	FEATURE CODE - 016	33250400
	UNIT_016,*,8,CH	UNIT TYPE - 016	33286000
SK	IP,8	RESERVED	33321600
MPVO	LENT_017,*,32	VOLUME ENTRY - 017	33357200
	VOLSER 017,=,6,CH	VOLUME SERIAL - 017	33392800
MP	RACK_017,*,6,CH	RACK NUMBER - 017	33428400
	FEAT 017, *, 4, CH	FEATURE CODE - 017	33464000
		UNIT TYPE - 017	33499600
	UNIT_017,*,8,CH		
	IP,8	RESERVED	33535200
	LENT_018, *, 32	VOLUME ENTRY - 018	33570800
	VOLSER_018,=,6,CH	VOLUME SERIAL - 018	33606400
MP	RACK_018,*,6,CH	RACK NUMBER - 018	33642000
	FEAT 018, *, 4, CH	FEATURE CODE - 018	33677600
	UNIT 018, *, 8, CH	UNIT TYPE - 018	33713200
	IP,8	RESERVED	33748800
	LENT 019,*,32	VOLUME ENTRY - 019	33784400
		VOLUME SERIAL - 019	33820000
	VOLSER_019,=,6,CH		
	RACK_019, *, 6, CH	RACK NUMBER - 019	33855600
	FEAT_019, *, 4, CH	FEATURE CODE - 019	33891200
	UNIT_019,*,8,CH	UNIT TYPE - 019	33926800
SK	IP,8	RESERVED	33962400
	LENT 020,*,32	VOLUME ENTRY - 020	33998000
	VOLSER 020,=,6,CH	VOLUME SERIAL - 020	34033600
	RACK 020,*,6,CH	RACK NUMBER - 020	34069200
	FEAT 020,*,4,CH	FEATURE CODE - 020	34104800

MPUNIT_020,*,8,CH	UNIT TYPE - 020	34140400
SKIP,8	RESERVED	34176000
MPVOLENT 021,*,32	VOLUME ENTRY - 021	34211600
MPVOLSER 021,=,6,CH	VOLUME SERIAL - 021	34247200
MPRACK 021,*,6,CH	RACK NUMBER - 021	34282800
	FEATURE CODE - 021	34318400
MPFEAT_021,*,4,CH		
MPUNIT_021,*,8,CH	UNIT TYPE - 021	34354000
SKIP,8	RESERVED	34389600
MPVOLENT_022,*,32	VOLUME ENTRY - 022	34425200
MPVOLSER_022,=,6,CH	VOLUME SERIAL - 022	34460800
MPRACK_022,*,6,CH	RACK NUMBER - 022	34496400
$MPFEAT = 022, \star, 4, CH$	FEATURE CODE - 022	34532000
MPUNIT 022,*,8,CH	UNIT TYPE - 022	34567600
SKIP,8	RESERVED	34603200
MPV0LENT_023, *, 32	VOLUME ENTRY - 023	34638800
MPV0LSER_023,=,6,CH	VOLUME SERIAL - 023	34674400
MPRACK_023,*,6,CH	RACK NUMBER - 023	34710000
MPFEAT_023,*,4,CH	FEATURE CODE - 023	34745600
MPUNIT_023,*,8,CH	UNIT TYPE - 023	34781200
SKIP,8	RESERVED	34816800
MPV0LENT 024,*,32	VOLUME ENTRY - 024	34852400
MPVOLSER 024,=,6,CH	VOLUME SERIAL - 024	34888000
MPRACK_024, *, 6, CH	RACK NUMBER - 024	34923600
MPFEAT_024,*,4,CH	FEATURE CODE - 024	34959200
MPUNIT_024,*,8,CH	UNIT TYPE - 024	34994800
SKIP,8	RESERVED	35030400
MPVOLENT 025,*,32	VOLUME ENTRY - 025	35066000
MPVOLSER 025,=,6,CH	VOLUME SERIAL - 025	35101600
MPRACK_025,*,6,CH	RACK NUMBER - 025	35137200
MPFEAT_025,*,4,CH	FEATURE CODE - 025	35172800
MPUNIT_025,*,8,CH	UNIT TYPE - 025	35208400
SKIP,8	RESERVED	35244000
MPVOLENT_026,*,32	VOLUME ENTRY - 026	35279600
MPVOLSER_026,=,6,CH	VOLUME SERIAL - 026	35315200
MPRACK_026,*,6,CH	RACK NUMBER - 026	35350800
MPFEAT 026, *, 4, CH	FEATURE CODE - 026	35386400
MPUNIT_026,*,8,CH	UNIT TYPE - 026	35422000
SKIP,8	RESERVED	35457600
MPVOLENT 027,*,32	VOLUME ENTRY - 027	35493200
MPV0LSER_027,=,6,CH	VOLUME SERIAL - 027	35528800
MPRACK_027, *, 6, CH	RACK NUMBER - 027	35564400
MPFEAT_027,*,4,CH	FEATURE CODE - 027	35600000
MPUNIT_027,*,8,CH	UNIT TYPE - 027	35635600
SKIP,8	RESERVED	35671200
MPV0LENT_028,*,32	VOLUME ENTRY - 028	35706800
MPVOLSER_028,=,6,CH	VOLUME SERIAL - 028	35742400
MPRACK_028,*,6,CH	RACK NUMBER - 028	35778000
MPFEAT 028, *, 4, CH	FEATURE CODE - 028	35813600
MPUNIT 028, *, 8, CH	UNIT TYPE - 028	35849200
SKIP,8	RESERVED	35884800
SINII , U		
	VALUME ENTRY - 620	
MPVOLENT_029,*,32	VOLUME ENTRY - 029	35920400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH	VOLUME SERIAL - 029	35956000
<pre>MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH</pre>	VOLUME SERIAL - 029 RACK NUMBER - 029	35956000 35991600
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029	35956000 35991600 36027200
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029	35956000 35991600 36027200 36062800
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED	35956000 35991600 36027200
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029	35956000 35991600 36027200 36062800
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030	35956000 35991600 36027200 36062800 36098400 36134000
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030	35956000 35991600 36027200 36062800 36098400 36134000 36169600
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200
MPVOLENT_029,*,32 MPVOLSER_029,*,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLENT_031,*,32 MPVOLER_031,*,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 FEATURE CODE - 031	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPFEAT_030,*,4,CH MPFEAT_030,*,4,CH MPFUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,*,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 UNIT TYPE - 031	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 RACK NUMBER - 031 RACK NUMBER - 031 UNIT TYPE - 031 RESERVED - 031 RESERVED - 031 RESERVED - 031 RESERVED	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 3648800 36454400 36454400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,32	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME SERIAL - 031 RESERVED - 031 RESERVED - 031 RESERVED - 031 RESERVED VOLUME ENTRY - 032	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 363483200 36418800 36454400 36490000 36525600 36561200
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPFEAT_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH MPFEAT_031,*,6,CH MPFEAT_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_031,*,8,CH SKIP,8 MPVOLENT_032,*,32 MPVOLENT_032,*,32 MPVOLENT_032,*,32 MPVOLENT_032,*,32	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME SERIAL - 031 UNIT TYPE - 031 UNIT TYPE - 031 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 032 VOLUME SERIAL - 032	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400 36490000 36525600 36561200 36596800
MPVOLENT_029,*,32 MPVOLSER_029,*,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPFEAT_030,*,4,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,*,6,CH MPFEAT_031,*,4,CH MPHUNIT_031,*,4,CH MPUNIT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLSER_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLSER_032,*,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 RACK NUMBER - 031 RESERVED VOLUME SERIAL - 031 RESERVED VOLUME SERIAL - 031 VOLUME TYPE - 031 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36312000 36347600 36383200 36418800 36454400 36490000 36525600 36596800 36632400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPREAT_029,*,4,CH MPFEAT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_031,*,3,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPFEAT_032,*,3,CH SKIP,8 MPVOLENT_032,*,3,CH SKIP,8 MPVOLSER_032,*,6,CH MPRACK_032,*,6,CH MPRACK_032,*,6,CH MPFEAT_032,*,4,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RESERVED VOLUME SERIAL - 032 VOLUME ENTRY - 032 RACK NUMBER - 032 FEATURE CODE - 032	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36312000 36312000 36347600 36383200 36418800 36454400 36490000 3655600 36561200 366596800 36632400 36668000
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPREAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_031,*,32 MPVOLSER_031,*,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLSER_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLSER_032,*,6,CH MPFEAT_032,*,4,CH MPRACK_032,*,6,CH MPFEAT_032,*,4,CH MPUNIT_032,*,8,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME ENTRY - 031 RACK NUMBER - 031 RACK NUMBER - 031 RESERVED VOLUME ENTRY - 031 UNIT TYPE - 031 RESERVED VOLUME SERIAL - 031 RESERVED VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400 36450000 36525600 36561200 366632400 36668000 36703600
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,4,CH MPRACK_032,*,6,CH MPRACK_032,*,6,CH MPRACK_032,*,6,CH MPRACK_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPUNIT_032,*,8,CH SKIP,8	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RESERVED VOLUME SERIAL - 032 VOLUME ENTRY - 032 RACK NUMBER - 032 FEATURE CODE - 032	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36312000 36312000 36347600 36383200 36418800 36454400 36490000 3655600 36561200 366596800 36632400 36668000
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPREAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_031,*,32 MPVOLSER_031,*,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLSER_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLSER_032,*,6,CH MPFEAT_032,*,4,CH MPRACK_032,*,6,CH MPFEAT_032,*,4,CH MPUNIT_032,*,8,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME ENTRY - 031 RACK NUMBER - 031 RACK NUMBER - 031 RESERVED VOLUME ENTRY - 031 UNIT TYPE - 031 RESERVED VOLUME SERIAL - 031 RESERVED VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400 36450000 36525600 36561200 366632400 36668000 36703600
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,=,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH MPRACK_031,*,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,4,CH MPRACK_032,*,6,CH MPRACK_032,*,6,CH MPRACK_032,*,6,CH MPRACK_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPUNIT_032,*,8,CH SKIP,8	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36312000 36347600 363483200 36418800 36454400 36490000 36525600 36596800 36661200 36668000 36703600 36703600
MPVOLENT_029,*,32 MPVOLSER_029,*,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPFEAT_030,*,4,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLENT_031,*,6,CH MPFEAT_031,*,6,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,32 MPVOLENT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,8,CH SKIP,8 MPVOLENT_033,*,32 MPVOLENT_033,*,32 MPVOLENT_033,*,32 MPVOLENT_033,*,32 MPVOLENT_033,*,32 MPVOLENT_033,*,32 MPVOLENT_033,*,32	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME ENTRY - 032 UNIT TYPE - 032 VOLUME SERIAL - 032 FEATURE CODE - 032 UNIT TYPE - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED VOLUME ENTRY - 033 VOLUME ENTRY - 033 VOLUME ENTRY - 033	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400 36490000 36525600 36561200 36596800 36632400 3668000 3673600 36739200 36774800 36810400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPRACK_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,32 MPVOLSER_032,*,6,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,32 MPVOLSER_032,*,6,CH MPFEAT_032,*,4,CH MPUNIT_032,*,32 MPVOLSER_032,*,6,CH MPFEAT_033,*,6,CH MPRACK_033,*,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 033 VOLUME ENTRY - 033 VOLUME ENTRY - 033 VOLUME SERIAL - 033 RACK NUMBER - 033	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36312000 36312000 36347600 36383200 36418800 36454400 36525600 36525600 36596800 36596800 36739200 36774800 36810400
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPRACK_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPFEAT_030,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,32 MPVOLSER_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,32 MPVOLSER_032,=,6,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_033,*,4,CH MPFEAT_033,*,4,CH MPFEAT_033,*,4,CH MPRACK_033,*,6,CH MPRACK_033,*,6,CH MPRACK_033,*,6,CH MPRACK_033,*,6,CH MPRACK_033,*,4,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 RACK NUMBER - 031 RACK NUMBER - 031 RESERVED VOLUME SERIAL - 031 RESERVED VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED VOLUME ENTRY - 033 VOLUME ENTRY - 033 VOLUME SERIAL - 033 RACK NUMBER - 033 FEATURE CODE - 033 RACK NUMBER - 033 FEATURE CODE - 033	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400 36450000 36525600 36561200 36561200 36668000 36739200 36739200 36774800 36810400 36846000
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPRACK_030,*,4,CH MPFEAT_030,*,4,CH MPUNIT_031,*,32 MPVOLSER_031,=,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,6,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_033,*,4,CH MPWOLSER_033,*,6,CH MPRACK_033,*,6,CH MPRACK_033,*,6,CH MPRACK_033,*,6,CH MPFEAT_033,*,4,CH MPFEAT_033,*,4,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 RACK NUMBER - 031 RESERVED VOLUME SERIAL - 031 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED VOLUME SERIAL - 032 RESERVED VOLUME SERIAL - 033 RACK NUMBER - 033 FEATURE CODE - 033 VOLUME SERIAL - 033 RACK NUMBER - 033 FEATURE CODE - 033 UNIT TYPE - 033 UNIT TYPE - 033	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400 3645000 36525600 36561200 36596800 3666800 3673400 36734800 36774800 3681600 36881600 36881600
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPRACK_030,*,6,CH MPFEAT_030,*,4,CH MPUNIT_030,*,8,CH SKIP,8 MPVOLENT_031,*,32 MPVOLSER_031,=,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,32 MPVOLENT_032,*,6,CH MPRACK_032,*,6,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPUNIT_032,*,8,CH SKIP,8 MPVOLENT_033,*,6,CH MPRACK_033,*,6,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 FEATURE CODE - 031 UNIT TYPE - 031 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED VOLUME ENTRY - 032 RESERVED VOLUME ENTRY - 033 FEATURE CODE - 033 UNIT TYPE - 033 RACK NUMBER - 033 FEATURE CODE - 033 UNIT TYPE - 033 RESERVED	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36312000 36347600 363483200 36418800 36454400 36490000 36525600 36525600 36502400 36632400 36632400 3673400 36739200 36774800 36810400 36810400 3681000 3681000 36917200 36917200
MPVOLENT_029,*,32 MPVOLSER_029,=,6,CH MPRACK_029,*,6,CH MPFEAT_029,*,4,CH MPFEAT_029,*,4,CH MPUNIT_029,*,8,CH SKIP,8 MPVOLENT_030,*,32 MPVOLSER_030,*,6,CH MPRACK_030,*,4,CH MPFEAT_030,*,4,CH MPUNIT_031,*,32 MPVOLSER_031,=,6,CH MPRACK_031,*,6,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPFEAT_031,*,4,CH MPUNIT_031,*,8,CH SKIP,8 MPVOLENT_032,*,6,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,4,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_032,*,6,CH MPFEAT_033,*,4,CH MPWOLSER_033,*,6,CH MPRACK_033,*,6,CH MPRACK_033,*,6,CH MPRACK_033,*,6,CH MPFEAT_033,*,4,CH MPFEAT_033,*,4,CH	VOLUME SERIAL - 029 RACK NUMBER - 029 FEATURE CODE - 029 UNIT TYPE - 029 RESERVED VOLUME ENTRY - 030 VOLUME SERIAL - 030 RACK NUMBER - 030 FEATURE CODE - 030 UNIT TYPE - 030 RESERVED VOLUME ENTRY - 031 VOLUME ENTRY - 031 VOLUME SERIAL - 031 RACK NUMBER - 031 RACK NUMBER - 031 RESERVED VOLUME SERIAL - 031 RESERVED VOLUME ENTRY - 032 VOLUME ENTRY - 032 VOLUME SERIAL - 032 RACK NUMBER - 032 FEATURE CODE - 032 UNIT TYPE - 032 RESERVED VOLUME SERIAL - 032 RESERVED VOLUME SERIAL - 033 RACK NUMBER - 033 FEATURE CODE - 033 VOLUME SERIAL - 033 RACK NUMBER - 033 FEATURE CODE - 033 UNIT TYPE - 033 UNIT TYPE - 033	35956000 35991600 36027200 36062800 36098400 36134000 36169600 36205200 36240800 36276400 36312000 36347600 36383200 36418800 36454400 3645000 36525600 36561200 36596800 3666800 3673400 36734800 36774800 3681600 36881600 36881600

MPRACK_034,*,6,CH	RACK NUMBER - 034	37059600
MPFEAT 034,*,4,CH	FEATURE CODE - 034	37095200
MPUNIT 034, *, 8, CH	UNIT TYPE - 034	37130800
SKIP,8	RESERVED	37166400
MPVOLENT 035,*,32	VOLUME ENTRY - 035	37202000
MPVOLSER_035,=,6,CH	VOLUME SERIAL - 035	37237600
MPRACK_035,*,6,CH	RACK NUMBER - 035	37273200
	FEATURE CODE - 035	
MPFEAT_035, *, 4, CH		37308800
MPUNIT_035,*,8,CH	UNIT TYPE - 035	37344400
SKIP,8	RESERVED	37380000
MPVOLENT_036,*,32	VOLUME ENTRY - 036	37415600
MPVOLSER_036,=,6,CH	VOLUME SERIAL - 036	37451200
MPRACK_036,*,6,CH	RACK NUMBER - 036	37486800
MPFEAT_036,*,4,CH	FEATURE CODE - 036	37522400
MPUNIT_036,*,8,CH	UNIT TYPE - 036	37558000
SKIP,8	RESERVED	37593600
MPVOLENT_037,*,32	VOLUME ENTRY - 037	37629200
MPVOLSER 037,=,6,CH	VOLUME SERIAL - 037	37664800
MPRACK_037,*,6,CH	RACK NUMBER - 037	37700400
$MPFEAT_037, \star, 4, CH$	FEATURE CODE - 037	37736000
MPUNIT 037,*,8,CH	UNIT TYPE - 037	37771600
SKIP,8	RESERVED	37807200
MPVOLENT_038,*,32	VOLUME ENTRY - 038	37842800
MPV0LSER_038,=,6,CH	VOLUME SERIAL - 038	37878400
MPRACK_038, *, 6, CH	RACK NUMBER - 038	37914000
MPFEAT_038, *, 4, CH	FEATURE CODE - 038	37949600
MPUNIT_038, *, 8, CH	UNIT TYPE - 038	37985200
SKIP,8	RESERVED	38020800
MPVOLENT_039,*,32	VOLUME ENTRY - 039	38056400
MPVOLSER_039,=,6,CH	VOLUME SERIAL - 039	38092000
MPRACK_039,*,6,CH	RACK NUMBER - 039	38127600
MPFEAT 039, *, 4, CH	FEATURE CODE - 039	38163200
MPUNIT 039, *, 8, CH	UNIT TYPE - 039	38198800
SKIP,8	RESERVED	38234400
MPV0LENT_040,*,32	VOLUME ENTRY - 040	38270000
MPVOLSER 040,=,6,CH	VOLUME SERIAL - 040	38305600
MPRACK_040,*,6,CH	RACK NUMBER - 040	38341200
MPFEAT 040,*,4,CH	FEATURE CODE - 040	38376800
MPUNIT_040,*,8,CH	UNIT TYPE - 040	38412400
SKIP,8	RESERVED	38448000
MPV0LENT_041,*,32	VOLUME ENTRY - 041	38483600
MPV0LSER_041,=,6,CH	VOLUME SERIAL - 041	38519200
MPRACK_041,*,6,CH	RACK NUMBER - 041	38554800
MPFEAT_041,*,4,CH	FEATURE CODE - 041	38590400
MPUNIT_041,*,8,CH	UNIT TYPE - 041	38626000
SKIP,8	RESERVED	38661600
MPV0LENT_042,*,32	VOLUME ENTRY - 042	38697200
$MPVOLSER_042,=,6,CH$	VOLUME SERIAL - 042	38732800
MPRACK 042,*,6,CH	RACK NUMBER - 042	38768400
MPFEAT 042,*,4,CH	FEATURE CODE - 042	38804000
MPUNIT 042, *, 8, CH	UNIT TYPE - 042	38839600
SKIP,8	RESERVED	38875200
MPVOLENT 043,*,32	VOLUME ENTRY - 043	38910800
MPVOLSER 043,=,6,CH	VOLUME SERIAL - 043	38946400
MPRACK 043,*,6,CH	RACK NUMBER - 043	38982000
MPFEAT 043,*,4,CH	FEATURE CODE - 043	39017600
MPUNIT_043,*,4,CH	UNIT TYPE - 043	39053200
SKIP,8	RESERVED	39088800
MPVOLENT 044,*,32	NEJERVED	3700000
MPVOLSER 044,*,32	VOLUME ENTRY - 0//	3912//00
FIF VULSER_044,=,0,0H	VOLUME SERTAL - 044	39124400 39160000
MDDACK OAA 4 CH	VOLUME SERIAL - 044	39160000
MPRACK_044, *, 6, CH	VOLUME SERIAL - 044 RACK NUMBER - 044	39160000 39195600
MPFEAT_044, *, 4, CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044	39160000 39195600 39231200
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044	39160000 39195600 39231200 39266800
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED	39160000 39195600 39231200 39266800 39302400
MPFEAT 044, *, 4, CH MPUNIT 044, *, 8, CH SKIP, 8 MPVOLENT 045, *, 32	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045	39160000 39195600 39231200 39266800 39302400 39338000
MPFEAT 044, *, 4, CH MPUNIT 044, *, 8, CH SKIP, 8 MPVOLENT 045, *, 32 MPVOLSER 045, =, 6, CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045	39160000 39195600 39231200 39266800 39302400 39338000 39373600
MPFEAT 044,*,4,CH MPUNIT 044,*,8,CH SKIP,8 MPVOLENT 045,*,32 MPVOLSER 045,=,6,CH MPRACK 045,*,6,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,=,6,CH MPRACK_045,*,6,CH MPFEAT_045,*,4,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200 39444800
MPFEAT 044,*,4,CH MPUNIT 044,*,8,CH SKIP,8 MPVOLENT 045,*,32 MPVOLSER 045,=,6,CH MPRACK 045,*,6,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,=,6,CH MPRACK_045,*,6,CH MPFEAT_045,*,4,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200 39444800
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,=,6,CH MPRACK_045,*,6,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200 39444800 39480400
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPRACK_045,*,6,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200 39444800 39480400 39516000
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,=,6,CH MPRACK_045,*,6,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200 39444800 39480400 39516000
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,=,6,CH MPRACK_045,*,6,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,=,6,CH MPRACK_046,*,6,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046	39160000 39195600 39231200 39266800 39302400 39373600 39409200 39444800 39480400 39516000 39551600 39587200 39622800
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,=,6,CH MPRACK_045,*,6,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,=,6,CH MPRACK_046,*,6,CH MPFEAT_046,*,4,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046	39160000 39195600 39231200 39266800 39302400 39373600 39409200 39444800 39480400 39516000 39551600 39587200 39622800 39658400
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPFEAT_045,*,4,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,=,6,CH MPFACK_046,*,6,CH MPFEAT_046,*,4,CH MPFEAT_046,*,8,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME SERIAL - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046	39160000 39195600 39231200 39266800 39302400 39373600 39409200 39444800 39480400 39516000 39551600 39551600 3955200 39622800 39658400
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPFEAT_045,*,4,CH MPFEAT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,*,6,CH MPRACK_046,*,6,CH MPFEAT_046,*,4,CH MPFEAT_046,*,4,CH MPUNIT_046,*,8,CH SKIP,8	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046 RESERVED VOLUME SERIAL - 046 RESERVED - 046 RESERVED - 046 RESERVED	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200 39444800 39480400 39516000 39551600 39587200 39622800 39658400 39694000 39729600
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPFEAT_045,*,4,CH MPFEAT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,*,6,CH MPRACK_046,*,6,CH MPFEAT_046,*,4,CH MPFEAT_046,*,4,CH MPFEAT_046,*,4,CH MPFEAT_046,*,8,CH SKIP,8 MPVOLENT_047,*,32	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046 RESERVED VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046 RESERVED VOLUME ENTRY - 047	39160000 39195600 39231200 39266800 39302400 39338000 39373600 39409200 39444800 39516000 39516000 39551600 39587200 39622800 39622800 39694000 39729600 39765200
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPFEAT_045,*,4,CH MPFEAT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLENT_046,*,32 MPVOLSER_046,*,6,CH MPFEAT_046,*,6,CH MPFEAT_046,*,6,CH MPFEAT_046,*,4,CH MPUNIT_046,*,8,CH SKIP,8 MPVOLENT_047,*,32 MPVOLSER_047,*,6,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046 RESERVED VOLUME SERIAL - 046 VOLUME SERIAL - 046 VOLUME CODE - 046 UNIT TYPE - 046 RESERVED VOLUME ENTRY - 047 VOLUME SERIAL - 047	39160000 39195600 39231200 39266800 39302400 39373600 39409200 39444800 39516000 39516000 39551600 39587200 39622800 39658400 39658400 39729600 39729600 39765200 39800800
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPFEAT_045,*,4,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,*,6,CH MPFEAT_046,*,4,CH MPFEAT_046,*,4,CH MPFEAT_046,*,4,CH MPUNIT_046,*,8,CH SKIP,8 MPVOLENT_047,*,32 MPVOLENT_047,*,32 MPVOLSER_047,*,6,CH MPRACK_047,*,6,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046 RESERVED VOLUME SERIAL - 046 RESERVED VOLUME SERIAL - 047 RACK NUMBER - 047 RACK NUMBER - 047	39160000 39195600 39231200 39266800 39302400 39373600 39409200 39444800 39516000 39551600 39551600 39587200 39622800 39658400 39658400 39765200 39808800 39836400
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,*,6,CH MPFEAT_046,*,4,CH MPFEAT_046,*,6,CH MPFEAT_046,*,4,CH MPFUNIT_046,*,3,CH SKIP,8 MPVOLENT_047,*,6,CH MPFACK_047,*,4,CH MPRACK_047,*,6,CH MPRACK_047,*,6,CH MPFEAT_047,*,4,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046 RESERVED VOLUME SERIAL - 047 VOLUME ENTRY - 047 VOLUME ENTRY - 047 VOLUME SERIAL - 047 RACK NUMBER - 047 FEATURE CODE - 047	39160000 39195600 39231200 39266800 39302400 39373600 39409200 39444800 394516000 39551600 39587200 39622800 39658400 39694000 39765200 39800800 39836400 39872000
MPFEAT_044,*,4,CH MPUNIT_044,*,8,CH SKIP,8 MPVOLENT_045,*,32 MPVOLSER_045,*,6,CH MPFEAT_045,*,4,CH MPFEAT_045,*,4,CH MPUNIT_045,*,8,CH SKIP,8 MPVOLENT_046,*,32 MPVOLSER_046,*,6,CH MPFEAT_046,*,4,CH MPFEAT_046,*,4,CH MPFEAT_046,*,4,CH MPUNIT_046,*,8,CH SKIP,8 MPVOLENT_047,*,32 MPVOLENT_047,*,32 MPVOLSER_047,*,6,CH MPRACK_047,*,6,CH	VOLUME SERIAL - 044 RACK NUMBER - 044 FEATURE CODE - 044 UNIT TYPE - 044 RESERVED VOLUME ENTRY - 045 VOLUME SERIAL - 045 RACK NUMBER - 045 FEATURE CODE - 045 UNIT TYPE - 045 RESERVED VOLUME ENTRY - 046 VOLUME SERIAL - 046 RACK NUMBER - 046 FEATURE CODE - 046 UNIT TYPE - 046 RESERVED VOLUME SERIAL - 046 RESERVED VOLUME SERIAL - 047 RACK NUMBER - 047 RACK NUMBER - 047	39160000 39195600 39231200 39266800 39302400 39373600 39409200 39444800 39516000 39551600 39551600 39587200 39622800 39658400 39658400 39765200 39808800 39836400

MPVOLENT 048,*,32	VOLUME ENTRY - 048	39978800
MPVOLSER 048,=,6,CH	VOLUME SERIAL - 048	40014400
	RACK NUMBER - 048	40050000
MPRACK_048, *, 6, CH		
MPFEAT_048,*,4,CH	FEATURE CODE - 048	40085600
MPUNIT_048,*,8,CH	UNIT TYPE - 048	40121200
SKIP,8	RESERVED	40156800
MPVOLENT 049,*,32	VOLUME ENTRY - 049	40192400
MPVOLSER 049,=,6,CH	VOLUME SERIAL - 049	40228000
MPRACK_049,*,6,CH	RACK NUMBER - 049	40263600
MPFEAT_049, *, 4, CH	FEATURE CODE - 049	40299200
MPUNIT_049,*,8,CH	UNIT TYPE - 049	40334800
SKIP,8	RESERVED	40370400
MPVOLENT 050,*,32	VOLUME ENTRY - 050	40406000
MPVOLSER_050,=,6,CH	VOLUME SERIAL - 050	40441600
	RACK NUMBER - 050	40477200
MPRACK_050, *, 6, CH		
MPFEAT_050, *, 4, CH	FEATURE CODE - 050	40512800
MPUNIT_050, *, 8, CH	UNIT TYPE - 050	40548400
SKIP,8	RESERVED	40584000
MPV0LENT_051,*,32	VOLUME ENTRY - 051	40619600
MPVOLSER 051,=,6,CH	VOLUME SERIAL - 051	40655200
MPRACK 051,*,6,CH	RACK NUMBER - 051	40690800
MPFEAT_051,*,4,CH	FEATURE CODE - 051	40726400
MPUNIT_051, *, 8, CH	UNIT TYPE - 051	40762000
SKIP,8	RESERVED	40797600
MPV0LENT_052,*,32	VOLUME ENTRY - 052	40833200
MPVOLSER 052,=,6,CH	VOLUME SERIAL - 052	40868800
MPRACK 052,*,6,CH	RACK NUMBER - 052	40904400
MPFEAT_052, *, 4, CH	FEATURE CODE - 052	40940000
MPUNIT_052,*,8,CH	UNIT TYPE - 052	40975600
SKIP,8	RESERVED	41011200
MPV0LENT_053, *, 32	VOLUME ENTRY - 053	41046800
MPVOLSĒR 053,=,6,CH	VOLUME SERIAL - 053	41082400
MPRACK 053,*,6,CH	RACK NUMBER - 053	41118000
MPFEAT_053, *, 4, CH	FEATURE CODE - 053	41153600
MPUNIT_053,*,8,CH	UNIT TYPE - 053	41189200
SKIP,8	RESERVED	41224800
MPVOLENT 054,*,32	VOLUME ENTRY - 054	41260400
MPVOLSER 054,=,6,CH	VOLUME SERIAL - 054	41296000
MPRACK 054,*,6,CH	RACK NUMBER - 054	41331600
	FEATURE CODE - 054	41367200
MPFEAT_054, *, 4, CH		
MPUNIT_054, *, 8, CH	UNIT TYPE - 054	41402800
SKIP,8	RESERVED	41438400
MPV0LENT_055,*,32	VOLUME ENTRY - 055	41474000
MPVOLSER 055,=,6,CH	VOLUME SERIAL - 055	41509600
MPRACK_055,*,6,CH	RACK NUMBER - 055	41545200
MPFEAT_055, *, 4, CH	FEATURE CODE - 055	41580800
MPUNIT_055, *, 8, CH	UNIT TYPE - 055	41616400
SKIP,8	RESERVED	41652000
MPVOLENT_056,*,32	VOLUME ENTRY - 056	41687600
MPVOLSER 056,=,6,CH	VOLUME SERIAL - 056	41723200
MDDACK OFC . C CIL	RACK NUMBER - 056	41758800
MPRACK USO.*.O.CH		
MPRACK_056,*,6,CH MPEFAT 056 * 4 CH		
MPFEAT_056,*,4,CH	FEATURE CODE - 056	41794400
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH	FEATURE CODE - 056 UNIT TYPE - 056	41794400 41830000
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED	41794400 41830000 41865600
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057	41794400 41830000 41865600 41901200
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,=,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057	41794400 41830000 41865600 41901200 41936800
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,=,6,CH MPRACK_057,*,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057	41794400 41830000 41865600 41901200
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,=,6,CH MPRACK_057,*,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057	41794400 41830000 41865600 41901200 41936800
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,=,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057	41794400 41830000 41865600 41901200 41936800 41972400 42008000
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,=,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800 42150400
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH MPRACK_058,*,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058 RACK NUMBER - 058	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800 42150400 42186000
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800 42150400
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH MPRACK_058,*,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058 RACK NUMBER - 058	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800 42150400 42186000
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPFACK_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH MPFEAT_058,*,6,CH MPFEAT_058,*,6,CH MPFEAT_058,*,4,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058 RACK NUMBER - 058 FEATURE CODE - 058 UNIT TYPE - 058	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800 42150400 42186000 42221600 42257200
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPFACK_057,*,4,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH MPFEAT_058,*,6,CH MPFEAT_058,*,4,CH MPUNIT_058,*,4,CH MPUNIT_058,*,8,CH SKIP,8	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058 RACK NUMBER - 058 FEATURE CODE - 058 UNIT TYPE - 058 UNIT TYPE - 058 RESERVED	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800 42150400 42186000 42257200 42292800
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MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH MPFEAT_058,*,4,CH MPUNIT_058,*,8,CH SKIP,8 MPVOLENT_059,*,32 MPVOLSER_059,*,6,CH MPFEAT_059,*,4,CH MPFEAT_059,*,4,CH MPUNIT_059,*,8,CH SKIP,8 MPVOLENT_060,*,32 MPVOLENT_060,*,32 MPVOLSER_060,*,4,CH MPRACK_060,*,4,CH MPRACK_060,*,4,CH MPRACK_060,*,4,CH MPRACK_060,*,4,CH MPUNIT_060,*,8,CH SKIP,8 MPVOLENT_060,*,8,CH SKIP,8 MPVOLENT_060,*,8,CH SKIP,8 MPVOLENT_060,*,32	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058 RACK NUMBER - 058 RACK NUMBER - 058 FEATURE CODE - 058 UNIT TYPE - 058 RESERVED VOLUME ENTRY - 059 VOLUME SERIAL - 059 RACK NUMBER - 059 FEATURE CODE - 059 UNIT TYPE - 059 RESERVED VOLUME ENTRY - 060 VOLUME ENTRY - 060 VOLUME SERIAL - 060 RACK NUMBER - 060 FEATURE CODE - 060 UNIT TYPE - 060 RESERVED VOLUME ENTRY - 060	41794400 41830000 41865600 41901200 41936800 41972400 42008000 420436000 42079200 42114800 42150400 42150400 42221600 42257200 42292800 42328400 4238400 42399600 42470800 42542000 42577600 42542000 42577600 42648800 42648800 42684400 42720000 42755600
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH MPFEAT_058,*,4,CH MPUNIT_058,*,8,CH SKIP,8 MPVOLENT_059,*,32 MPVOLENT_059,*,32 MPVOLENT_059,*,32 MPVOLENT_059,*,4,CH MPFEAT_059,*,4,CH MPFEAT_059,*,4,CH MPFEAT_059,*,4,CH MPVOLENT_060,*,32 MPVOLENT_060,*,32 MPVOLENT_060,*,32 MPVOLENT_060,*,32 MPVOLENT_060,*,4,CH MPFEAT_060,*,4,CH MPFEAT_060,*,4,CH MPFEAT_060,*,4,CH MPFEAT_060,*,8,CH SKIP,8 MPVOLENT_061,*,32 MPVOLENT_061,*,32 MPVOLENT_061,*,32 MPVOLENT_061,*,32 MPVOLENT_061,*,32 MPVOLENT_061,*,32 MPVOLENT_061,*,32 MPVOLERT_061,*,6,CH	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058 RACK NUMBER - 058 FEATURE CODE - 058 UNIT TYPE - 058 RESERVED VOLUME ENTRY - 059 VOLUME ENTRY - 059 VOLUME SERIAL - 059 RACK NUMBER - 059 RACK NUMBER - 059 FEATURE CODE - 059 UNIT TYPE - 059 RESERVED VOLUME SERIAL - 060 VOLUME SERIAL - 060 RACK NUMBER - 060 FEATURE CODE - 060 UNIT TYPE - 060 RESERVED VOLUME SERIAL - 060 RESERVED VOLUME ENTRY - 060 VOLUME SERIAL - 060 RESERVED VOLUME ENTRY - 061 VOLUME ENTRY - 061 VOLUME SERIAL - 061	41794400 41830000 41865600 41901200 41936800 41972400 42008000 42043600 42079200 42114800 42150400 42257200 4221600 42257200 42292800 42328400 4238400 42364000 4239600 42470800 42577600 42577600 42613200 42613200 42684400 42791200
MPFEAT_056,*,4,CH MPUNIT_056,*,8,CH SKIP,8 MPVOLENT_057,*,32 MPVOLSER_057,*,6,CH MPRACK_057,*,6,CH MPFEAT_057,*,4,CH MPUNIT_057,*,8,CH SKIP,8 MPVOLENT_058,*,32 MPVOLSER_058,*,6,CH MPFEAT_058,*,4,CH MPUNIT_058,*,8,CH SKIP,8 MPVOLENT_059,*,32 MPVOLSER_059,*,6,CH MPFEAT_059,*,4,CH MPFEAT_059,*,4,CH MPUNIT_059,*,8,CH SKIP,8 MPVOLENT_060,*,32 MPVOLENT_060,*,32 MPVOLSER_060,*,4,CH MPRACK_060,*,4,CH MPRACK_060,*,4,CH MPRACK_060,*,4,CH MPRACK_060,*,4,CH MPUNIT_060,*,8,CH SKIP,8 MPVOLENT_060,*,8,CH SKIP,8 MPVOLENT_060,*,8,CH SKIP,8 MPVOLENT_060,*,32	FEATURE CODE - 056 UNIT TYPE - 056 RESERVED VOLUME ENTRY - 057 VOLUME SERIAL - 057 RACK NUMBER - 057 FEATURE CODE - 057 UNIT TYPE - 057 RESERVED VOLUME ENTRY - 058 VOLUME SERIAL - 058 RACK NUMBER - 058 RACK NUMBER - 058 FEATURE CODE - 058 UNIT TYPE - 058 RESERVED VOLUME ENTRY - 059 VOLUME SERIAL - 059 RACK NUMBER - 059 FEATURE CODE - 059 UNIT TYPE - 059 RESERVED VOLUME ENTRY - 060 VOLUME ENTRY - 060 VOLUME SERIAL - 060 RACK NUMBER - 060 FEATURE CODE - 060 UNIT TYPE - 060 RESERVED VOLUME ENTRY - 060	41794400 41830000 41865600 41901200 41936800 41972400 42008000 420436000 42079200 42114800 42150400 42150400 42221600 42257200 42292800 42328400 4238400 42399600 42470800 42542000 42577600 42542000 42577600 42648800 42648800 42684400 42720000 42755600

MPUNIT_061,*,8,CH	UNIT TYPE - 061	42898000
SKIP,8	RESERVED	42933600
MPVOLENT_062,*,32 MPVOLSER_062,=,6,CH	VOLUME ENTRY - 062 VOLUME SERIAL - 062	42969200 43004800
MPRACK 062,*,6,CH	RACK NUMBER - 062	43040400
MPFEAT_062,*,4,CH	FEATURE CODE - 062	43076000
MPUNIT_062,*,8,CH	UNIT TYPE - 062	43111600
SKIP,8	RESERVED	43147200
MPV0LENT_063, *, 32	VOLUME ENTRY - 063	43182800
MPV0LSER_063,=,6,CH	VOLUME SERIAL - 063	43218400
MPRACK_063,*,6,CH MPFEAT_063,*,4,CH	RACK NUMBER - 063 FEATURE CODE - 063	43254000 43289600
MPUNIT 063,*,8,CH	UNIT TYPE - 063	43325200
SKIP,8	RESERVED	43360800
MPV0LENT_064,*,32	VOLUME ENTRY - 064	43396400
MPV0LSER_064,=,6,CH	VOLUME SERIAL - 064	43432000
MPRACK_064, *, 6, CH	RACK NUMBER - 064	43467600
MPFEAT_064,*,4,CH MPUNIT 064,*,8,CH	FEATURE CODE - 064 UNIT TYPE - 064	43503200 43538800
SKIP,8	RESERVED	43574400
MPVOLENT_065,*,32	VOLUME ENTRY - 065	43610000
$MPVOLSER_065,=,6,CH$	VOLUME SERIAL - 065	43645600
MPRACK_065,*,6,CH	RACK NUMBER - 065	43681200
MPFEAT_065,*,4,CH	FEATURE CODE - 065	43716800
MPUNIT_065,*,8,CH SKIP,8	UNIT TYPE - 065 RESERVED	43752400 43788000
MPVOLENT 066,*,32	VOLUME ENTRY - 066	43788000
MPVOLSER 066,=,6,CH	VOLUME SERIAL - 066	43859200
MPRACK_ $0\overline{6}6, \star, 6, CH$	RACK NUMBER - 066	43894800
$MPFEAT_066, \star, 4, CH$	FEATURE CODE - 066	43930400
MPUNIT_066,*,8,CH	UNIT TYPE - 066	43966000
SKIP,8	RESERVED	44001600
MPVOLENT_067,*,32 MPVOLSER 067,=,6,CH	VOLUME ENTRY - 067 VOLUME SERIAL - 067	44037200 44072800
MPRACK_067,*,6,CH	RACK NUMBER - 067	44108400
$MPFEAT_067, \star, 4, CH$	FEATURE CODE - 067	44144000
MPUNIT_067,*,8,CH	UNIT TYPE - 067	44179600
SKIP,8	RESERVED	44215200
MPVOLENT_068,*,32	VOLUME SERTAL 068	44250800 44384400
MPVOLSER_068,=,6,CH MPRACK 068,*,6,CH	VOLUME SERIAL - 068 RACK NUMBER - 068	44286400 44322000
MPFEAT_068, *, 4, CH	FEATURE CODE - 068	44357600
MPUNIT_068,*,8,CH	UNIT TYPE - 068	44393200
SKIP,8	RESERVED	44428800
MPV0LENT_069, *, 32	VOLUME ENTRY - 069	44464400
MPV0LSER_069,=,6,CH	VOLUME SERIAL - 069	44500000 44535600
MPRACK_069,*,6,CH MPFEAT 069,*,4,CH	RACK NUMBER - 069 FEATURE CODE - 069	44535600 44571200
MPUNIT 069,*,8,CH	UNIT TYPE - 069	44606800
SKIP,8	RESERVED	44642400
MPVOLENT_070,*,32	VOLUME ENTRY - 070	44678000
MPV0LSER_070,=,6,CH	VOLUME SERIAL - 070	44713600
MPRACK_070,*,6,CH	RACK NUMBER - 070 FEATURE CODE - 070	44749200 44784800
MPFEAT_070,*,4,CH MPUNIT 070,*,8,CH	UNIT TYPE - 070	44820400
SKIP,8	RESERVED	44856000
MPVOLENT_071,*,32	VOLUME ENTRY - 071	44891600
$MPVOLSER_071,=,6,CH$	VOLUME SERIAL - 071	44927200
MPRACK_071, *, 6, CH	RACK NUMBER - 071	44962800 44998400
MPFEAT_071,*,4,CH MPUNIT 071,*,8,CH	FEATURE CODE - 071 UNIT TYPE - 071	44998400
SKIP,8	RESERVED	45069600
MPVOLENT_072,*,32	VOLUME ENTRY - 072	45105200
$MPVOLSER_072,=,6,CH$	VOLUME SERIAL - 072	45140800
MPRACK_072,*,6,CH	RACK NUMBER - 072	45176400
MPFEAT_072, *, 4, CH	FEATURE CODE - 072	45212000
MPUNIT_072,*,8,CH SKIP,8	UNIT TYPE - 072 RESERVED	45247600 45283200
MPVOLENT_073,*,32	VOLUME ENTRY - 073	45318800
MPVOLSER 073,=,6,CH	VOLUME SERIAL - 073	45354400
MPRACK_073,*,6,CH	RACK NUMBER - 073	45390000
MPFEAT_073, *, 4, CH	FEATURE CODE - 073	45425600
MPUNIT_073,*,8,CH	UNIT TYPE - 073	45461200
SKIP,8	RESERVED VOLUME ENTRY - 074	45496800 45532400
MPVOLENT_074,*,32 MPVOLSER 074,=,6,CH	VOLUME ENTRY - 074 VOLUME SERIAL - 074	45532400 45568000
MPRACK 074,*,6,CH	RACK NUMBER - 074	45603600
MPFEAT_074,*,4,CH	FEATURE CODE - 074	45639200
MPUNIT_074, *, 8, CH	UNIT TYPE - 074	45674800
SKIP,8	RESERVED	45710400 45746000
MPVOLENT_075,*,32 MPVOLSER 075,=,6,CH	VOLUME ENTRY - 075 VOLUME SERIAL - 075	45746000 45781600
111 VOLULIN_0/0,-,0,011	TOLOTTE SERVICE 0/3	43701000

MPRACK 075,*,6,CH	RACK NUMBER - 075	45817200
MPFEAT 075, *, 4, CH	FEATURE CODE - 075	45852800
	UNIT TYPE - 075	
MPUNIT_075,*,8,CH		45888400
SKIP,8	RESERVED	45924000
MPVOLENT_076,*,32	VOLUME ENTRY - 076	45959600
MPVOLSER_076,=,6,CH	VOLUME SERIAL - 076	45995200
MPRACK_076,*,6,CH	RACK NUMBER - 076	46030800
MPFEAT 076,*,4,CH	FEATURE CODE - 076	46066400
MPUNIT_076,*,8,CH	UNIT TYPE - 076	46102000
SKIP,8	RESERVED	46137600
MPVOLENT_077,*,32	VOLUME ENTRY - 077	46173200
MPVOLSER_077,=,6,CH	VOLUME SERIAL - 077	46208800
MPRACK 077,*,6,CH	RACK NUMBER - 077	46244400
MPFEAT 077, *, 4, CH	FEATURE CODE - 077	46280000
MPUNIT 077,*,8,CH	UNIT TYPE - 077	46315600
SKIP,8	RESERVED	46351200
MPVOLENT_078, *, 32	VOLUME ENTRY - 078	46386800
MPVOLSER_078,=,6,CH	VOLUME SERIAL - 078	46422400
MPRACK_078,*,6,CH	RACK NUMBER - 078	46458000
MPFEAT_078,*,4,CH	FEATURE CODE - 078	46493600
MPUNIT 078,*,8,CH	UNIT TYPE - 078	46529200
SKIP,8	RESERVED	46564800
MPV0LENT_079,*,32	VOLUME ENTRY - 079	46600400
$MPVOLSER_079,=,6,CH$	VOLUME SERIAL - 079	46636000
MPRACK_079,*,6,CH	RACK NUMBER - 079	46671600
MPFEAT 079,*,4,CH	FEATURE CODE - 079	46707200
MPUNIT 079,*,8,CH	UNIT TYPE - 079	46742800
SKIP,8	RESERVED	46778400
MPV0LENT_080,*,32	VOLUME ENTRY - 080	46814000
$MPVOLSER_080,=,6,CH$	VOLUME SERIAL - 080	46849600
MPRACK 080, *, 6, CH	RACK NUMBER - 080	46885200
MPFEAT 080, *, 4, CH	FEATURE CODE - 080	46920800
MPUNIT 080,*,8,CH	UNIT TYPE - 080	46956400
SKIP,8	RESERVED	46992000
MPV0LENT_081,*,32	VOLUME ENTRY - 081	47027600
MPVOLSER_081,=,6,CH	VOLUME SERIAL - 081	47063200
MPRACK_081,*,6,CH	RACK NUMBER - 081	47098800
MPFEAT_081, *, 4, CH	FEATURE CODE - 081	47134400
MPUNIT 081,*,8,CH	UNIT TYPE - 081	47170000
	RESERVED	47205600
SKIP,8		
MPV0LENT_082,*,32	VOLUME ENTRY - 082	47241200
MPVOLSER_082,=,6,CH	VOLUME SERIAL - 082	47276800
MPRACK_082,*,6,CH	RACK NUMBER - 082	47312400
MPFEAT 082, *, 4, CH	FEATURE CODE - 082	47348000
	UNIT TYPE - 082	47383600
MPUNIT_082,*,8,CH		
SKIP,8	RESERVED	47419200
SKIP,8 MPVOLENT_083,*,32	RESERVED VOLUME ENTRY - 083	47419200 47454800
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083	47419200 47454800 47490400
SKIP,8 MPVOLENT_083,*,32	RESERVED VOLUME ENTRY - 083	47419200 47454800
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083	47419200 47454800 47490400
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083	47419200 47454800 47490400 47526000 47561600
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083	47419200 47454800 47490400 47526000 47561600 47597200
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED	47419200 47454800 47490400 47526000 47561600 47597200 47632800
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,*,6,CH MPRACK_083,*,4,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPRACK_084,*,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,*,6,CH MPRACK_083,*,6,CH MPUNIT_083,*,4,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPRACK_084,*,6,CH MPFEAT_084,*,4,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPRACK_084,*,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,*,6,CH MPRACK_083,*,6,CH MPUNIT_083,*,4,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPRACK_084,*,6,CH MPFEAT_084,*,4,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,*,=,6,CH MPRACK_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,*,6,CH MPRACK_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 RESERVED	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800
SKIP,8 MPVOLENT_083,*,32 MPVOLER_083,*,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,*,6,CH MPRACK_084,*,4,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 RESERVED VOLUME ENTRY - 085	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47882000
SKIP,8 MPVOLENT_083,*,32 MPVOLENT_083,*,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPRACK_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLENT_085,*,32 MPVOLERT_085,=,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 VOLUME SERIAL - 085 VOLUME ENTRY - 085 VOLUME ENTRY - 085	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47775200 47810800 47882000 47917600
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPRACK_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLSER_085,=,6,CH MPRACK_085,*,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 VOLUME ENTRY - 085 VOLUME ENTRY - 085 RACK NUMBER - 085 RACK NUMBER - 085	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 47882000 47917600 47953200
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPFEAT_084,*,4,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLSER_085,*,6,CH MPRACK_085,*,6,CH MPRACK_085,*,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 VOLUME SERIAL - 084 FEATURE CODE - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 FEATURE CODE - 085	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 4782000 47917600 47953200 47988800
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SKIP,8 MPVOLENT 083,*,32 MPVOLESER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLENT_085,*,32 MPVOLENT_085,*,4,CH MPFEAT_085,*,4,CH MPFEAT_085,*,4,CH MPUNIT_085,*,8,CH SKIP,8 MPVOLENT_086,*,32 MPVOLER_086,*,6,CH MPFEAT_086,*,4,CH MPRACK_086,*,6,CH MPFEAT_086,*,6,CH MPRACK_086,*,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 RESERVED VOLUME ENTRY - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 FEATURE CODE - 085 UNIT TYPE - 085 RESERVED VOLUME SERIAL - 085 RESERVED VOLUME SERIAL - 085 RESERVED VOLUME SERIAL - 086 RACK NUMBER - 086 FEATURE CODE - 086 UNIT TYPE - 086 RESERVED VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 086 RESERVED VOLUME ENTRY - 086 VOLUME ENTRY - 086 VOLUME SERIAL - 087 VOLUME SERIAL - 087 RACK NUMBER - 087	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 4782000 47917600 47953200 47988800 48060000 48060000 48095600 48131200 48166800 48273600 48273600 48399200 48394400
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SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLENT_085,*,32 MPVOLSER_085,=,6,CH MPFEAT_085,*,4,CH MPUNIT_085,*,8,CH SKIP,8 MPVOLENT_086,*,4,CH MPUNIT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPUNIT_087,*,8,CH SKIP,8 MPVOLENT_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPFEAT_087,*,8,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 RESERVED VOLUME ENTRY - 085 VOLUME ENTRY - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 FEATURE CODE - 085 UNIT TYPE - 085 RESERVED VOLUME SERIAL - 085 RESERVED VOLUME ENTRY - 086 VOLUME ENTRY - 086 VOLUME SERIAL - 086 RACK NUMBER - 086 FEATURE CODE - 086 UNIT TYPE - 086 RESERVED VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 087 VOLUME SERIAL - 087 RACK NUMBER - 087 FEATURE CODE - 087 UNIT TYPE - 087	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 47953200 47953200 47988800 48024400 48060000 48131200 48168800 48202400 48238000 48238000 48273600 48309200 4834800 4834800 4834800 4834800 4834800 48416000 48451600
SKIP,8 MPVOLENT_083,*,32 MPVOLENT_083,*,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLENT_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLENT_085,*,32 MPVOLENT_085,*,6,CH MPFEAT_085,*,6,CH MPFEAT_085,*,6,CH MPFEAT_085,*,6,CH MPFEAT_085,*,4,CH MPUNIT_086,*,8,CH SKIP,8 MPVOLENT_086,*,32 MPVOLENT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,6,CH MPFEAT_086,*,6,CH MPFEAT_086,*,4,CH MPUNIT_086,*,8,CH SKIP,8 MPVOLENT_087,*,32 MPVOLENT_087,*,4,CH MPFEAT_087,*,4,CH MPFEAT_087,*,4,CH MPFEAT_087,*,4,CH MPUNIT_087,*,8,CH SKIP,8	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 VOLUME SERIAL - 085 FEATURE CODE - 085 VOLUME ENTRY - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 RACK NUMBER - 085 RESERVED VOLUME SERIAL - 085 RESERVED VOLUME SERIAL - 086 VOLUME SERIAL - 086 RACK NUMBER - 086 VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 087 VOLUME SERIAL - 087 VOLUME SERIAL - 087 VOLUME SERIAL - 087 RACK NUMBER - 087 FEATURE CODE - 087 UNIT TYPE - 087 RESERVED	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 47917600 47953200 47988800 4892400 48060000 48131200 48166800 48238000 48238000 48273600 48309200 48380400 48380400 48451600 48487200
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,*,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLSER_085,*,6,CH MPFEAT_085,*,4,CH MPHUNIT_085,*,8,CH SKIP,8 MPVOLENT_085,*,4,CH MPHUNIT_085,*,8,CH SKIP,8 MPVOLSER_086,*,6,CH MPFEAT_086,*,4,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,8,CH SKIP,8 MPVOLSER_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPHUNIT_087,*,8,CH SKIP,8 MPVOLENT_087,*,8,CH SKIP,8 MPVOLENT_088,*,32	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 RESERVED VOLUME ENTRY - 085 VOLUME ENTRY - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 FEATURE CODE - 085 UNIT TYPE - 085 RESERVED VOLUME ENTRY - 085 RESERVED VOLUME ENTRY - 086 VOLUME SERIAL - 086 RACK NUMBER - 086 FEATURE CODE - 086 UNIT TYPE - 086 RESERVED VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 087 RACK NUMBER - 087 FEATURE CODE - 087 UNIT TYPE - 087 RESERVED VOLUME SERIAL - 087 RESERVED VOLUME ENTRY - 087	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 47882000 47917600 47953200 47988800 48060000 48060000 48060000 48131200 48166800 48202400 48238000 48238000 48238000 48238000 48273600 48309200 48344800 48380400 48487200 48522800
SKIP,8 MPVOLENT_083,*,32 MPVOLENT_083,*,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLENT_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLENT_085,*,32 MPVOLENT_085,*,6,CH MPFEAT_085,*,6,CH MPFEAT_085,*,6,CH MPFEAT_085,*,6,CH MPFEAT_085,*,4,CH MPUNIT_086,*,8,CH SKIP,8 MPVOLENT_086,*,32 MPVOLENT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,6,CH MPFEAT_086,*,6,CH MPFEAT_086,*,4,CH MPUNIT_086,*,8,CH SKIP,8 MPVOLENT_087,*,32 MPVOLENT_087,*,4,CH MPFEAT_087,*,4,CH MPFEAT_087,*,4,CH MPFEAT_087,*,4,CH MPUNIT_087,*,8,CH SKIP,8	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 VOLUME SERIAL - 085 FEATURE CODE - 085 VOLUME ENTRY - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 RACK NUMBER - 085 RESERVED VOLUME SERIAL - 085 RESERVED VOLUME SERIAL - 086 VOLUME SERIAL - 086 RACK NUMBER - 086 VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 087 VOLUME SERIAL - 087 VOLUME SERIAL - 087 VOLUME SERIAL - 087 RACK NUMBER - 087 FEATURE CODE - 087 UNIT TYPE - 087 RESERVED	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 47917600 47953200 47988800 4892400 48060000 48131200 48166800 48238000 48238000 48273600 48309200 48380400 48380400 48451600 48487200
SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,*,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,*,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLENT_085,*,32 MPVOLSER_085,*,6,CH MPFEAT_085,*,4,CH MPHUNIT_085,*,8,CH SKIP,8 MPVOLENT_085,*,4,CH MPHUNIT_085,*,8,CH SKIP,8 MPVOLSER_086,*,6,CH MPFEAT_086,*,4,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,6,CH MPRACK_086,*,8,CH SKIP,8 MPVOLSER_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPRACK_087,*,6,CH MPHUNIT_087,*,8,CH SKIP,8 MPVOLENT_087,*,8,CH SKIP,8 MPVOLENT_088,*,32	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 RESERVED VOLUME ENTRY - 085 VOLUME ENTRY - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 FEATURE CODE - 085 UNIT TYPE - 085 RESERVED VOLUME ENTRY - 085 RESERVED VOLUME ENTRY - 086 VOLUME SERIAL - 086 RACK NUMBER - 086 FEATURE CODE - 086 UNIT TYPE - 086 RESERVED VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 086 RESERVED VOLUME SERIAL - 087 RACK NUMBER - 087 FEATURE CODE - 087 UNIT TYPE - 087 RESERVED VOLUME SERIAL - 087 RESERVED VOLUME ENTRY - 087	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 47704000 47739600 47775200 47810800 47846400 47882000 47917600 47953200 47988800 48060000 48060000 48060000 48131200 48166800 48202400 48238000 48238000 48238000 48238000 48273600 48309200 48344800 48380400 48487200 48522800
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SKIP,8 MPVOLENT_083,*,32 MPVOLSER_083,=,6,CH MPRACK_083,*,6,CH MPFEAT_083,*,4,CH MPUNIT_083,*,8,CH SKIP,8 MPVOLENT_084,*,32 MPVOLSER_084,=,6,CH MPFEAT_084,*,4,CH MPUNIT_084,*,8,CH SKIP,8 MPVOLSER_085,=,6,CH MPFEAT_085,*,32 MPVOLSER_085,*,6,CH MPFEAT_085,*,4,CH MPUNIT_085,*,8,CH SKIP,8 MPVOLENT_086,*,32 MPVOLSER_086,*,6,CH MPFEAT_086,*,4,CH MPHACK_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_086,*,4,CH MPFEAT_087,*,32 MPVOLSER_087,*,6,CH MPRACK_087,*,6,CH MPFEAT_087,*,4,CH MPUNIT_087,*,32 MPVOLSER_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_087,*,6,CH MPFEAT_088,*,6,CH	RESERVED VOLUME ENTRY - 083 VOLUME SERIAL - 083 RACK NUMBER - 083 FEATURE CODE - 083 UNIT TYPE - 083 RESERVED VOLUME ENTRY - 084 VOLUME SERIAL - 084 RACK NUMBER - 084 FEATURE CODE - 084 UNIT TYPE - 084 RESERVED VOLUME ENTRY - 085 VOLUME ENTRY - 085 VOLUME SERIAL - 085 RACK NUMBER - 085 FEATURE CODE - 085 UNIT TYPE - 085 RESERVED VOLUME SERIAL - 085 RESERVED VOLUME SERIAL - 086 RACK NUMBER - 086 VOLUME SERIAL - 086 RACK NUMBER - 086 FEATURE CODE - 086 UNIT TYPE - 086 RESERVED VOLUME SERIAL - 087 RESERVED VOLUME ENTRY - 087 VOLUME SERIAL - 087 RESERVED VOLUME ENTRY - 088 VOLUME SERIAL - 088 RACK NUMBER - 088	47419200 47454800 47490400 47526000 47561600 47597200 47632800 47668400 477794000 47739600 47775200 47810800 47846400 47917600 47953200 47988800 4806000 48095600 48131200 48166800 48202400 48238000 48273600 48399200 48344800 4839200 48344800 48451600 48487200 4852800 4852800 48558400 48594000

MPVOLENT 089,	*,32 \	OLUME ENTRY - 089	48736400	
MPVOLSĒR 08	39,=,6,CH \	/OLUME SERIAL - 089	48772000	
MPRACK_089,		RACK NUMBER - 089	48807600	
MPFEAT 089,		FEATURE CODE - 089	48843200	
MPUNIT_089,		JNIT TYPE - 089	48878800	
SKIP,8		RESERVED	48914400	
MPVOLENT_090,	*,32 \	/OLUME ENTRY - 090	48950000	
MPVOLSER 09		/OLUME SERIAL - 090	48985600	
MPRACK_090,		RACK NUMBER - 090	49021200	
MPFEAT 090,		FEATURE CODE - 090	49056800	
MPUNIT_090,	. O CU I	JNIT TYPE - 090		
			49092400	
SKIP,8		RESERVED	49128000	
MPVOLENT_091,		OLUME ENTRY - 091	49163600	
MPVOLSER_09	1,=,6,CH \	/OLUME SERIAL - 091	49199200	
MPRACK 091,	*,6,CH F	RACK NUMBER - 091	49234800	
MPFEAT 091,		EATURE CODE - 091	49270400	
MPUNIT 091,		JNIT TYPE - 091	49306000	
SKIP,8	•	RESERVED	49341600	
MPVOLENT_092,		OLUME ENTRY - 092	49377200	
MPVOLSER_09		/OLUME SERIAL - 092	49412800	
MPRACK_092,	*,6,CH F	RACK NUMBER - 092	49448400	
MPFEAT_092,	*,4,CH F	FEATURE CODE - 092	49484000	
MPUNIT 092,	*.8.CH l	JNIT TYPE - 092	49519600	
SKIP,8	• •	RESERVED	49555200	
MPVOLENT 093,		OLUME ENTRY - 093	49590800	
MPVOLSER 09				
		OLUME SERIAL - 093	49626400 40663000	
MPRACK_093,		RACK NUMBER - 093	49662000	
MPFEAT_093,	*,4,CH	EATURE CODE - 093	49697600	
MPUNIT_093,	*,8,CH l	JNIT TYPE - 093	49733200	
SKIP,8		RESERVED	49768800	
MPVOLENT_094,		OLUME ENTRY - 094	49804400	
MPVOLSER_09		OLUME SERIAL - 094	49840000	
MPRACK_094,	•	RACK NUMBER - 094	49875600	
MPFEAT_094,		EATURE CODE - 094	49911200	
MPUNIT_094,	*,8,CH (JNIT TYPE - 094	49946800	
SKIP,8		RESERVED	49982400	
MPVOLENT_095,	*,32 \	OLUME ENTRY - 095	50018000	
MPVOLSER_09		/OLUME SERIAL - 095	50053600	
MPRACK 095,		RACK NUMBER - 095	50089200	
		FEATURE CODE - 095	50124800	
MPFEAT_095,	• •			
MPUNIT_095,		JNIT TYPE - 095	50160400	
SKIP,8		RESERVED	50196000	
MPVOLENT_096,	*,32 \	/OLUME ENTRY - 096	50231600	
MPVOLSER 09	6,=,6,CH \	/OLUME SERIAL - 096	50267200	
MPRACK 096,		RACK NUMBER - 096	50302800	
MPFEAT 096,		FEATURE CODE - 096	50338400	
MPUNIT 096,		JNIT TYPE - 096	50374000	
SKIP,8		RESERVED	50409600	
MPVOLENT_097,		OLUME ENTRY - 097	50445200	
MPVOLSER_09	17,=,6,CH	/OLUME SERIAL - 097	50480800	
MPRACK_097,	*,6,CH F	RACK NUMBER - 097	50516400	
MPFEAT_097,	*,4,CH F	FEATURE CODE - 097	50552000	
MPUNIT_097,	*,8,CH l	JNIT TYPE - 097	50587600	
SKIP,8		RESERVED	50623200	
MPVOLENT 098,		OLUME ENTRY - 098	50658800	
MPVOLSER 09		OLUME SERIAL - 098	50694400	
		RACK NUMBER - 098	50730000	
MPRACK_098,				
MPFEAT_098,		FEATURE CODE - 098	50765600	
MPUNIT_098,		JNIT TYPE - 098	50801200	
SKIP,8		RESERVED	50836800	
MPVOLENT_099,	*,32 \	/OLUME ENTRY - 099	50872400	
MPVOLSER_09		/OLUME SERIAL - 099	50908000	
MPRACK 099,		RACK NUMBER - 099	50943600	
MPFEAT 099,	• •	FEATURE CODE - 099	50979200	
MPUNIT 099,		JNIT TYPE - 099	51014800	
SKIP,8		RESERVED	51014880	
MPVOLENT_100,		OLUME ENTRY - 100	51086000 51131600	
MPVOLSER_10		OLUME SERIAL - 100	51121600	
MPRACK_100,		RACK NUMBER - 100	51157200	
MPFEAT_100,	*,4,CH F	FEATURE CODE - 100	51192800	
MPUNIT_100,		JNIT TYPE - 100	51228400	
SKIP,8		RESERVED	51264000	
MPVOLENT 101,		OLUME ENTRY - 101	51299600	
MPVOLSER 10		OLUME SERIAL - 101	51335200	
MPRACK_101,		RACK NUMBER - 101	51370800	
MPFEAT_101,		FEATURE CODE - 101	51406400	
MPUNIT_101,		JNIT TYPE - 101	51442000	
SKIP,8	F	RESERVED	51477600	
MPVOLENT_102,	*,32 \	/OLUME ENTRY - 102	51513200	
MPVOLSĒR 10		/OLUME SERIAL - 102	51548800	
MPRACK 102,		RACK NUMBER - 102	51584400	
MPFEAT 102,		FEATURE CODE - 102	51620000	
2711_1327	, . , 3		0202000	

MPUNIT_102,*,8,CH	UNIT TYPE - 102	51655600
SKIP,8	RESERVED	51691200
MPV0LENT_103,*,32	VOLUME ENTRY - 103	51726800
MPVOLSER_103,=,6,CH	VOLUME SERIAL - 103	51762400
MPRACK_103,*,6,CH	RACK NUMBER - 103	51798000
MPFEAT_103,*,4,CH	FEATURE CODE - 103	51833600
MPUNIT_103,*,8,CH	UNIT TYPE - 103	51869200
SKIP,8	RESERVED	51904800
MPVOLENT_104,*,32	VOLUME ENTRY - 104	51940400
$MPVOLSER_104,=,6,CH$	VOLUME SERIAL - 104	51976000
MPRACK_104,*,6,CH	RACK NUMBER - 104	52011600
MPFEAT_104,*,4,CH	FEATURE CODE - 104	52047200
MPUNIT_104,*,8,CH	UNIT TYPE - 104	52082800
SKIP,8	RESERVED	52118400
MPVOLENT_105, *, 32	VOLUME ENTRY - 105	52154000
MPVOLSER_105,=,6,CH	VOLUME SERIAL - 105	52189600
MPRACK_105, *, 6, CH	RACK NUMBER - 105	52225200
MPFEAT_105, *, 4, CH	FEATURE CODE - 105	52260800
MPUNIT_105,*,8,CH	UNIT TYPE - 105	52296400
SKIP,8	RESERVED	52332000
MPVOLENT_106,*,32	VOLUME ENTRY - 106	52367600
MPPACK 106,=,6,CH	VOLUME SERIAL - 106	52403200
MPRACK_106, *, 6, CH	RACK NUMBER - 106	52438800
MPFEAT_106, *, 4, CH	FEATURE CODE - 106	52474400
MPUNIT_106,*,8,CH	UNIT TYPE - 106	52510000
SKIP,8	RESERVED	52545600 52581200
MPVOLENT_107,*,32	VOLUME ENTRY - 107 VOLUME SERIAL - 107	52581200 52616800
MPVOLSER_107,=,6,CH		52616800 52652400
MPRACK_107,*,6,CH MPFEAT 107,*,4,CH	RACK NUMBER - 107 FEATURE CODE - 107	52688000
MPUNIT 107,*,4,CH	UNIT TYPE - 107	52723600
SKIP,8	RESERVED	52759200
MPVOLENT 108,*,32	VOLUME ENTRY - 108	52794800
MPVOLSER 108,=,6,CH	VOLUME SERIAL - 108	52830400
MPRACK_108,*,6,CH	RACK NUMBER - 108	52866000
MPFEAT 108,*,4,CH	FEATURE CODE - 108	52901600
MPUNIT_108,*,8,CH	UNIT TYPE - 108	52937200
SKIP,8	RESERVED	52972800
MPVOLENT 109,*,32	VOLUME ENTRY - 109	53008400
MPV0LSER_109,=,6,CH	VOLUME SERIAL - 109	53044000
MPRACK $1\overline{0}9, \star, 6, CH$	RACK NUMBER - 109	53079600
MPFEAT 109, *, 4, CH	FEATURE CODE - 109	53115200
MPUNIT 109, *, 8, CH	UNIT TYPE - 109	53150800
SKIP,8	RESERVED	53186400
MPVOLENT_110, *, 32	VOLUME ENTRY - 110	53222000
MPVOLSER_110,=,6,CH	VOLUME SERIAL - 110	53257600
MPRACK_110,*,6,CH	RACK NUMBER - 110	53293200
MPFEAT_110,*,4,CH	FEATURE CODE - 110	53328800
MPUNIT_110,*,8,CH	UNIT TYPE - 110	53364400
SKIP,8	RESERVED	53400000
MPVOLENT_111,*,32	VOLUME ENTRY - 111	53435600
$MPVOLSER_111,=,6,CH$	VOLUME SERIAL - 111	53471200
MPRACK_111,*,6,CH	RACK NUMBER - 111	53506800
MPFEAT_111,*,4,CH	FEATURE CODE - 111	53542400
MPUNIT_111, *, 8, CH	UNIT TYPE - 111	53578000
SKIP,8	RESERVED	53613600
MPVOLENT_112, *, 32	VOLUME ENTRY - 112	53649200
MPV0LSER_112,=,6,CH	VOLUME SERIAL - 112	53684800
MPRACK_112,*,6,CH MPFEAT_112,*,4,CH	RACK NUMBER - 112 FEATURE CODE - 112	53720400 53756000
		53756000 53791600
MPUNIT_112,*,8,CH	UNIT TYPE - 112 RESERVED	53791600 53827200
SKIP,8 MPVOLENT_113,*,32	VOLUME ENTRY - 113	53827200
MPVOLENT_113,*,32 MPVOLSER 113,=,6,CH	VOLUME SERIAL - 113	53898400
MPRACK 113, +, 6, CH	RACK NUMBER - 113	53934000
MPFEAT 113,*,4,CH	FEATURE CODE - 113	53969600
MPUNIT 113, *, 8, CH	UNIT TYPE - 113	54005200
SKIP,8	RESERVED	54040800
MPVOLENT_114,*,32	VOLUME ENTRY - 114	54076400
MPV0LSER_114,=,6,CH	VOLUME SERIAL - 114	54112000
MPRACK 114,*,6,CH	RACK NUMBER - 114	54147600
MPFEAT 114,*,4,CH	FEATURE CODE - 114	54183200
MPUNIT_114,*,8,CH	UNIT TYPE - 114	54218800
SKIP,8	RESERVED	54254400
MPVOLENT 115,*,32	VOLUME ENTRY - 115	54290000
MPVOLSER_115,=,6,CH	VOLUME SERIAL - 115	54325600
MPRACK_115,*,6,CH	RACK NUMBER - 115	54361200
MPFEAT_115,*,4,CH	FEATURE CODE - 115	54396800
	1 2/11 0112 0002 220	
MPUNIT_115,*,8,CH	UNIT TYPE - 115	54432400
SKIP,8	UNIT TYPE - 115 RESERVED	54468000
	UNIT TYPE - 115	

MPRACK_116,*,6,CH	RACK NUMBER - 116	54574800
MPFEAT 116, *, 4, CH	FEATURE CODE - 116	54610400
MPUNIT 116, *, 8, CH	UNIT TYPE - 116	54646000
SKIP,8	RESERVED	54681600
MPVOLENT_117,*,32	VOLUME ENTRY - 117	54717200
MPVOLSER_117, =, 6, CH	VOLUME SERIAL - 117	54752800
MPRACK_117, *, 6, CH	RACK NUMBER - 117	54788400
MPFEAT_117, *, 4, CH	FEATURE CODE - 117	54824000
MPUNIT_117,*,8,CH	UNIT TYPE - 117	54859600
SKIP,8	RESERVED	54895200
MPV0LENT_118,*,32	VOLUME ENTRY - 118	54930800
MPVOLSER_118,=,6,CH	VOLUME SERIAL - 118	54966400
MPRACK 118,*,6,CH	RACK NUMBER - 118	55002000
MPFEAT_118,*,4,CH	FEATURE CODE - 118	55037600
MPUNIT 118,*,8,CH	UNIT TYPE - 118	55073200
SKIP,8	RESERVED	55108800
MPVOLENT_119, *, 32	VOLUME ENTRY - 119	55144400
MPVOLSER_119,=,6,CH	VOLUME SERIAL - 119	55180000
MPRACK_119, *, 6, CH	RACK NUMBER - 119	55215600
MPFEAT_119,*,4,CH	FEATURE CODE - 119	55251200
MPUNIT_119,*,8,CH	UNIT TYPE - 119	55286800
SKIP,8	RESERVED	55322400
MPVOLENT_120, *, 32	VOLUME ENTRY - 120	55358000
MPVOLSĒR 120,=,6,CH	VOLUME SERIAL - 120	55393600
MPRACK 120,*,6,CH	RACK NUMBER - 120	55429200
MPFEAT 120,*,4,CH	FEATURE CODE - 120	55464800
MPUNIT 120, *, 8, CH	UNIT TYPE - 120	55500400
SKIP,8	RESERVED	55536000
MPV0LENT_121,*,32	VOLUME ENTRY - 121	55571600
MPV0LSER_121,=,6,CH	VOLUME SERIAL - 121	55607200
MPRACK_121,*,6,CH	RACK NUMBER - 121	55642800
MPFEAT_121,*,4,CH	FEATURE CODE - 121	55678400
MPUNIT 121, *, 8, CH	UNIT TYPE - 121	55714000
SKIP,8	RESERVED	55749600
MPV0LENT_122,*,32	VOLUME ENTRY - 122	55785200
MPVOLSER 122,=,6,CH	VOLUME SERIAL - 122	55820800
MPRACK_122,*,6,CH	RACK NUMBER - 122	55856400
MPFEAT_122,*,4,CH	FEATURE CODE - 122	55892000
MPUNIT_122,*,8,CH	UNIT TYPE - 122	55927600
SKIP,8	RESERVED	55963200
MPV0LENT_123,*,32	VOLUME ENTRY - 123	55998800
MPVOLSER_123,=,6,CH	VOLUME SERIAL - 123	56034400
$MPRACK_1\overline{2}3,*,6,CH$	RACK NUMBER - 123	56070000
MPFEAT 123, *, 4, CH	FEATURE CODE - 123	56105600
MPUNIT_123, *, 8, CH	UNIT TYPE - 123	56141200
SKIP,8	RESERVED	56176800
MPVOLENT 124,*,32	VOLUME ENTRY - 124	56212400
MPV0LSER_124,=,6,CH	VOLUME SERIAL - 124	56248000
MPRACK_124, *, 6, CH	RACK NUMBER - 124	56283600
MPFEAT_124, *, 4, CH	FEATURE CODE - 124	56319200
MPUNIT_124,*,8,CH	UNIT TYPE - 124	56354800
SKIP,8	RESERVED	56390400
MPV0LENT_125,*,32	VOLUME ENTRY - 125	56426000
$MPVOLSER_125,=,6,CH$	VOLUME SERIAL - 125	56461600
$MPRACK_125, *, 6, CH$	RACK NUMBER - 125	56497200
MPFEAT 125, *, 4, CH	FEATURE CODE - 125	56532800
MPUNIT_125, *, 8, CH	UNIT TYPE - 125	56568400
SKIP,8	RESERVED	56604000
MPVOLENT 126,*,32	VOLUME ENTRY - 126	56639600
MPVOLSER 126,=,6,CH	VOLUME SERIAL - 126	56675200
MPRACK 126,*,6,CH	RACK NUMBER - 126	56710800
MPFEAT_126,*,4,CH	FEATURE CODE - 126	56746400 56783000
MPUNIT_126,*,8,CH	UNIT TYPE - 126	56782000
SKIP,8	RESERVED	56817600
MPVOLENT_127, *, 32	VOLUME ENTRY - 127	56853200
$MPVOLSER_127,=,6,CH$	VOLUME SERIAL - 127	56888800
MPRACK_127,*,6,CH	RACK NUMBER - 127	56924400
MPFEAT_127,*,4,CH	FEATURE CODE - 127	56960000
MPUNIT 127, *, 8, CH	UNIT TYPE - 127	56995600
SKIP,8	RESERVED	57031200
MPVOLENT 128,*,32	VOLUME ENTRY - 128	57066800
MPVOLSER 128,=,6,CH	VOLUME SERIAL - 128	57102400
MPRACK 128,*,6,CH	RACK NUMBER - 128	57138000
MPFEAT_128,*,4,CH	FEATURE CODE - 128	57173600
MPUNIT_128,*,8,CH	UNIT TYPE - 128	57209200
SKIP,8	RESERVED	57244800
MPV0LENT_129,*,32	VOLUME ENTRY - 129	57280400
$MPVOLSER_129, =, 6, CH$	VOLUME SERIAL - 129	57316000
MPRACK_129,*,6,CH		
	RACK NUMBER - 129	57351600
MPFEAT_129,*,4,CH		57351600 57387200
MPFEAT_129,*,4,CH MPUNIT 129,*,8,CH	RACK NUMBER - 129	
	RACK NUMBER - 129 FEATURE CODE - 129	57387200

MPVOLENT_130, *, 32	VOLUME ENTRY - 130	57494000
$MPVOLSER_130,=,6,CH$	VOLUME SERIAL - 130	57529600
MPRACK_130, *, 6, CH	RACK NUMBER - 130	57565200
MPFEAT_130,*,4,CH	FEATURE CODE - 130	57600800
MPUNIT_130,*,8,CH	UNIT TYPE - 130	57636400
SKIP,8	RESERVED	57672000
MPV0LENT_131,*,32	VOLUME ENTRY - 131	57707600
$MPVOLSER_131,=,6,CH$	VOLUME SERIAL - 131	57743200
MPRACK_131,*,6,CH	RACK NUMBER - 131	57778800
MPFEAT_131,*,4,CH	FEATURE CODE - 131	57814400
MPUNIT_131,*,8,CH	UNIT TYPE - 131	57850000
SKIP,8	RESERVED	57885600
MPV0LENT_132,*,32	VOLUME ENTRY - 132	57921200
$MPVOLSER_132,=,6,CH$	VOLUME SERIAL - 132	57956800
$MPRACK_132, *, 6, CH$	RACK NUMBER - 132	57992400
MPFEAT_132,*,4,CH	FEATURE CODE - 132	58028000
MPUNIT_132,*,8,CH	UNIT TYPE - 132	58063600
SKIP,8	RESERVED	58099200
MPVOLENT_133,*,32	VOLUME ENTRY - 133	58134800
MPVOLSER_133,=,6,CH	VOLUME SERIAL - 133	58170400
MPRACK_133,*,6,CH	RACK NUMBER - 133	58206000
MPFEAT_133,*,4,CH	FEATURE CODE - 133	58241600
MPUNIT_133,*,8,CH	UNIT TYPE - 133	58277200
SKIP,8	RESERVED	58312800
MPVOLENT_134,*,32	VOLUME ENTRY - 134	58348400
MPVOLSER_134,=,6,CH	VOLUME SERIAL - 134	58384000
$MPRACK_134, *, 6, CH$	RACK NUMBER - 134	58419600
MPFEAT_134,*,4,CH	FEATURE CODE - 134	58455200
MPUNIT_134,*,8,CH	UNIT TYPE - 134	58490800
SKIP,8	RESERVED	58526400
MPV0LENT_135,*,32	VOLUME ENTRY - 135	58562000
MPVOLSER_135,=,6,CH	VOLUME SERIAL - 135	58597600
MPRACK_135,*,6,CH	RACK NUMBER - 135	58633200
MPFEAT_135,*,4,CH	FEATURE CODE - 135	58668800
MPUNIT_135,*,8,CH	UNIT TYPE - 135	58704400
SKIP,8	RESERVED	58740000
MPV0LENT_136,*,32	VOLUME ENTRY - 136	58775600
$MPVOLSER_136,=,6,CH$	VOLUME SERIAL - 136	58811200
MPRACK_136,*,6,CH	RACK NUMBER - 136	58846800
MPFEAT_136,*,4,CH	FEATURE CODE - 136	58882400
MPUNIT_136,*,8,CH	UNIT TYPE - 136	58918000
SKIP,8	RESERVED	58953600
MPVOLENT_137,*,32	VOLUME ENTRY - 137	58989200
$MPVOLSER_137, =, 6, CH$	VOLUME SERIAL - 137	59024800
MPRACK_137,*,6,CH	RACK NUMBER - 137	59060400
MPFEAT_137,*,4,CH	FEATURE CODE - 137	59096000
MPUNIT_137,*,8,CH	UNIT TYPE - 137	59131600
SKIP,8	RESERVED	59167200
MPV0LENT_138,*,32	VOLUME ENTRY - 138	59202800
MPVOLSER_138,=,6,CH	VOLUME SERIAL - 138	59238400
MPRACK_138,*,6,CH	RACK NUMBER - 138	59274000
MPFEAT_138,*,4,CH	FEATURE CODE - 138	59309600
MPUNIT_138,*,8,CH	UNIT TYPE - 138	59345200
SKIP,8	RESERVED	59380800
MPV0LENT_139, *, 32	VOLUME ENTRY - 139	59416400
$MPVOLSER_139, =, 6, CH$	VOLUME SERIAL - 139	59452000
MPRACK_139, *, 6, CH	RACK NUMBER - 139	59487600
MPFEAT_139, *, 4, CH	FEATURE CODE - 139	59523200
MPUNIT_139, *, 8, CH	UNIT TYPE - 139	59558800
SKIP,8	RESERVED	59594400
MPVOLENT_140, *, 32	VOLUME ENTRY - 140	59630000
MPV0LSER_140,=,6,CH	VOLUME SERIAL - 140	59665600
MPRACK_140, *, 6, CH	RACK NUMBER - 140	59701200
MPFEAT_140, *, 4, CH	FEATURE CODE - 140	59736800
MPUNIT_140, *, 8, CH	UNIT TYPE - 140	59772400
SKIP,8	RESERVED	59808000
MPV0LENT_141, *, 32	VOLUME ENTRY - 141	59843600
MPVOLSER_141,=,6,CH	VOLUME SERIAL - 141	59879200
MPRACK_141, *, 6, CH	RACK NUMBER - 141	59914800
MPFEAT_141, *, 4, CH	FEATURE CODE - 141	59950400
MPUNIT_141, *, 8, CH	UNIT TYPE - 141	59986000
SKIP,8	RESERVED	60021600
MPVOLENT_142, *, 32	VOLUME ENTRY - 142	60057200
MPV0LSER_142,=,6,CH	VOLUME SERIAL - 142	60092800
MPRACK_142, *, 6, CH	RACK NUMBER - 142	60128400
MPFEAT_142,*,4,CH	FEATURE CODE - 142	60164000
MPUNIT_142,*,8,CH	UNIT TYPE - 142	60199600
SKIP,8	RESERVED	60235200
MPV0LENT_143, *, 32	VOLUME ENTRY - 143	60270800
MPV0LSER_143,=,6,CH	VOLUME SERIAL - 143	60306400
MPRACK_143, *, 6, CH	RACK NUMBER - 143	60342000
MPFEAT_143,*,4,CH	FEATURE CODE - 143	60377600

MPUNIT_143,*,8,CH	UNIT TYPE - 143	60413200
SKIP,8	RESERVED	60448800
MPVOLENT_144, *, 32	VOLUME ENTRY - 144	60484400
MPVOLSĒR 144,=,6,CH	VOLUME SERIAL - 144	60520000
MPRACK 144,*,6,CH	RACK NUMBER - 144	60555600
MPFEAT 144,*,4,CH	FEATURE CODE - 144	60591200
MPUNIT 144,*,8,CH	UNIT TYPE - 144	60626800
SKIP,8	RESERVED	60662400
MPVOLENT_145, *, 32	VOLUME ENTRY - 145	60698000
$MPVOLSER_145,=,6,CH$	VOLUME SERIAL - 145	60733600
$MPRACK_145, *, 6, CH$	RACK NUMBER - 145	60769200
MPFEAT_145,*,4,CH	FEATURE CODE - 145	60804800
MPUNIT 145,*,8,CH	UNIT TYPE - 145	60840400
SKIP,8	RESERVED	60876000
MPV0LENT_146, *, 32	VOLUME ENTRY - 146	60911600
MPV0LSER_146,=,6,CH	VOLUME SERIAL - 146	60947200
MPRACK_146,*,6,CH	RACK NUMBER - 146	60982800
MPFEAT 146,*,4,CH	FEATURE CODE - 146	61018400
MPUNIT_146,*,8,CH	UNIT TYPE - 146	61054000
SKIP,8	RESERVED	61089600
MPVOLENT_147, *, 32	VOLUME ENTRY - 147	61125200
MPVOLSER_147,=,6,CH	VOLUME SERIAL - 147	61160800
MPRACK_147,*,6,CH	RACK NUMBER - 147	61196400
MPFEAT_147,*,4,CH	FEATURE CODE - 147	61232000
MPUNIT_147,*,8,CH	UNIT TYPE - 147	61267600
SKIP,8	RESERVED	61303200
MPV0LENT_148,*,32	VOLUME ENTRY - 148	61338800
MPVOLSER 148,=,6,CH	VOLUME SERIAL - 148	61374400
MPRACK_148,*,6,CH	RACK NUMBER - 148	61410000
MPFEAT 148,*,4,CH	FEATURE CODE - 148	61445600
MPUNIT 148,*,8,CH	UNIT TYPE - 148	61481200
SKIP,8	RESERVED	61516800
MPVOLENT_149, *, 32	VOLUME ENTRY - 149	61552400
MPVOLSER_149,=,6,CH	VOLUME SERIAL - 149	61588000
MPRACK_149,*,6,CH	RACK NUMBER - 149	61623600
MPFEAT_149,*,4,CH	FEATURE CODE - 149	61659200
MPUNIT_149,*,8,CH	UNIT TYPE - 149	61694800
SKIP,8	RESERVED	61730400
MPV0LENT 150,*,32	VOLUME ENTRY - 150	61766000
$MPVOLSER_150$,=,6,CH	VOLUME SERIAL - 150	61801600
MPRACK 150, *, 6, CH	RACK NUMBER - 150	61837200
MPFEAT 150, *, 4, CH	FEATURE CODE - 150	61872800
MPUNIT_150,*,8,CH	UNIT TYPE - 150	61908400
SKIP,8	RESERVED	61944000
	VOLUME ENTRY - 151	
MPVOLENT_151, *, 32		61979600
MPVOLSER_151,=,6,CH	VOLUME SERIAL - 151	62015200
MPRACK_151, *, 6, CH	RACK NUMBER - 151	62050800
MPFEAT_151, *, 4, CH	FEATURE CODE - 151	62086400
MPUNIT_151,*,8,CH	UNIT TYPE - 151	62122000
SKIP,8	RESERVED	62157600
MPV0LENT_152,*,32	VOLUME ENTRY - 152	62193200
MPVOLSER_152,=,6,CH	VOLUME SERIAL - 152	62228800
MPRACK_152,*,6,CH	RACK NUMBER - 152	62264400
MPFEAT 152, *, 4, CH	FEATURE CODE - 152	62300000
MPUNIT_152, *, 8, CH	UNIT TYPE - 152	62335600
SKIP,8	RESERVED	62371200
MPVOLENT 153,*,32	VOLUME ENTRY - 153	62406800
MPVOLSER 153,=,6,CH	VOLUME SERIAL - 153	62442400
MPRACK 153,*,6,CH	RACK NUMBER - 153	62478000
MPFEAT_153, *, 4, CH	FEATURE CODE - 153	62513600
MPUNIT 153,*,8,CH	UNIT TYPE - 153	62549200
		62584800
SKIP,8	RESERVED	
MPVOLENT_154, *, 32	VOLUME ENTRY - 154	62620400
MPV0LSER_154,=,6,CH	VOLUME SERIAL - 154	62656000
MPRACK_154,*,6,CH	RACK NUMBER - 154	62691600
MPFEAT_154,*,4,CH	FEATURE CODE - 154	62727200
MPUNIT_154,*,8,CH	UNIT TYPE - 154	62762800
SKIP,8	RESERVED	62798400
MPVOLENT_155,*,32	VOLUME ENTRY - 155	62834000
$MPVOLSER_155,=,6,CH$	VOLUME SERIAL - 155	62869600
MPRACK_155,*,6,CH	RACK NUMBER - 155	62905200
MPFEAT 155, *, 4, CH	FEATURE CODE - 155	62940800
MPUNIT 155,*,8,CH	UNIT TYPE - 155	62976400
SKIP,8	RESERVED	63012000
MPVOLENT 156,*,32	VOLUME ENTRY - 156	63047600
MPVOLSER 156,=,6,CH	VOLUME SERIAL - 156	63083200
MPRACK 156,*,6,CH	RACK NUMBER - 156	63118800
MPFEAT_156,*,4,CH	FEATURE CODE - 156	63154400
MPUNIT_156,*,8,CH	UNIT TYPE - 156	63190000
SKIP,8	RESERVED	63225600
MPVOLENT_157,*,32	VOLUME ENTRY - 157	63261200
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$MPVOLSER_157, =, 6, CH$	VOLUME SERIAL - 157	63296800

MPRACK_157, *, 6, CH	RACK NUMBER - 157	63332400
MPFEAT_157,*,4,CH	FEATURE CODE - 157	63368000
MPUNIT_157,*,8,CH	UNIT TYPE - 157	63403600
SKIP,8	RESERVED	63439200
MPV0LENT_158, *, 32	VOLUME ENTRY - 158	63474800
$MPVOLSER_158,=,6,CH$	VOLUME SERIAL - 158	63510400
MPRACK_158,*,6,CH	RACK NUMBER - 158	63546000
MPFEAT_158, *, 4, CH	FEATURE CODE - 158	63581600
MPUNIT_158,*,8,CH	UNIT TYPE - 158	63617200
SKIP,8	RESERVED	63652800
MPVOLENT_159, *, 32	VOLUME ENTRY - 159	63688400
$MPVOLSER_159, =, 6, CH$	VOLUME SERIAL - 159	63724000
MPRACK_159,*,6,CH	RACK NUMBER - 159	63759600
MPFEAT_159, *, 4, CH	FEATURE CODE - 159	63795200
MPUNIT_159,*,8,CH	UNIT TYPE - 159	63830800
SKIP,8	RESERVED	63866400
MPVOLENT_160, *, 32	VOLUME ENTRY - 160	63902000
$MPVOLSER_160, =, 6, CH$	VOLUME SERIAL - 160	63937600
MPRACK_160,*,6,CH	RACK NUMBER - 160	63973200
$MPFEAT_160, \star, 4, CH$	FEATURE CODE - 160	64008800
MPUNIT_160,*,8,CH	UNIT TYPE - 160	64044400
SKIP,8	RESERVED	64080000
MPV0LENT_161, *, 32	VOLUME ENTRY - 161	64115600
$MPVOLS\overline{E}R_161,=,6,CH$	VOLUME SERIAL - 161	64151200
MPRACK $1\overline{6}1, \star, 6, CH$	RACK NUMBER - 161	64186800
MPFEAT_161, *, 4, CH	FEATURE CODE - 161	64222400
MPUNIT_161, *, 8, CH	UNIT TYPE - 161	64258000
SKIP,8	RESERVED	64293600
MPVOLENT 162,*,32	VOLUME ENTRY - 162	64329200
MPVOLSER 162,=,6,CH	VOLUME SERIAL - 162	64364800
MPRACK 162, *, 6, CH	RACK NUMBER - 162	64400400
MPFEAT_162, *, 4, CH	FEATURE CODE - 162	64436000
MPUNIT 162, *, 8, CH	UNIT TYPE - 162	64471600
SKIP,8	RESERVED	64507200
MPV0LENT_163,*,32	VOLUME ENTRY - 163	64542800
MPVOLSER 163,=,6,CH	VOLUME SERIAL - 163	64578400
MPRACK_163,*,6,CH	RACK NUMBER - 163	64614000
MPFEAT_163, *, 4, CH	FEATURE CODE - 163	64649600
MPUNIT 163, *, 8, CH	UNIT TYPE - 163	64685200
SKIP,8	RESERVED	64720800
MPVOLENT 164,*,32	VOLUME ENTRY - 164	64756400
MPV0LSER_164,=,6,CH	VOLUME SERIAL - 164	64792000
MPRACK_164,*,6,CH	RACK NUMBER - 164	64827600
MPFEAT 164,*,4,CH	FEATURE CODE - 164	64863200
MPUNIT_164, *, 8, CH	UNIT TYPE - 164	64898800
SKIP,8	RESERVED	64934400
MPVOLENT_165,*,32	VOLUME ENTRY - 165	64970000
MPVOLSER 165,=,6,CH	VOLUME SERIAL - 165	65005600
MPRACK_165, *, 6, CH	RACK NUMBER - 165	65041200
MPFEAT 165,*,4,CH	FEATURE CODE - 165	65076800
MPUNIT 165,*,8,CH	UNIT TYPE - 165	65112400
SKIP,8	RESERVED	65148000
MPVOLENT 166,*,32	VOLUME ENTRY - 166	65183600
MPVOLSER_166,=,6,CH MPRACK_166,*,6,CH	VOLUME SERIAL - 166 RACK NUMBER - 166	65219200 65254800
		65254800 65290400
MPFEAT_166,*,4,CH MPUNIT 166,*,8,CH	FEATURE CODE - 166 UNIT TYPE - 166	65290400 65326000
SKIP,8	RESERVED	65361600
MPVOLENT 167,*,32	VOLUME ENTRY - 167	65397200
MPVOLENT_167,*,32 MPVOLSER_167,=,6,CH	VOLUME SERIAL - 167	65432800
MPRACK 167,*,6,CH	RACK NUMBER - 167	65468400
MPFEAT 167,*,4,CH	FEATURE CODE - 167	65504000
MPUNIT 167,*,4,CH	UNIT TYPE - 167	65539600
SKIP,8	RESERVED	65575200
MPVOLENT 168,*,32	VOLUME ENTRY - 168	65610800
MPVOLENT_168,*,32 MPVOLSER_168,=,6,CH	VOLUME SERIAL - 168	65646400
MPRACK 168,*,6,CH	RACK NUMBER - 168	65682000
MPFEAT 168,*,4,CH	FEATURE CODE - 168	65717600
MPUNIT 168,*,4,CH	UNIT TYPE - 168	65753200
SKIP,8	RESERVED	65788800
MPVOLENT_169, *, 32	VOLUME ENTRY - 169	
		65824400 65860000
MPVOLSER_169,=,6,CH	VOLUME SERIAL - 169	
MPRACK_169, *, 6, CH	RACK NUMBER - 169	65895600 65031300
MPFEAT_169,*,4,CH	FEATURE CODE - 169	65931200 65066800
MPUNIT_169,*,8,CH	UNIT TYPE - 169	65966800 66002400
SKIP,8	RESERVED	66002400
MPVOLENT_170, *, 32	VOLUME ENTRY - 170	66038000
MPV0LSER_170,=,6,CH	VOLUME SERIAL - 170	66073600
MPRACK_170, *, 6, CH	RACK NUMBER - 170	66109200
MPFEAT_170,*,4,CH	FEATURE CODE - 170	66144800 66180400
MPUNIT_170,*,8,CH	UNIT TYPE - 170	66180400 66216000
SKIP,8	RESERVED	66216000

MPVOLENT_171,*,32	VOLUME ENTRY - 171	66251600
$MPVOLSER_171,=,6,CH$	VOLUME SERIAL - 171	66287200
MPRACK_171, *, 6, CH	RACK NUMBER - 171	66322800
MPFEAT_171, *, 4, CH	FEATURE CODE - 171	66358400
MPUNIT_171,*,8,CH SKIP,8	UNIT TYPE - 171 RESERVED	66394000 66429600
MPVOLENT 172,*,32	VOLUME ENTRY - 172	66465200
MPVOLSER 172,=,6,CH	VOLUME SERIAL - 172	66500800
MPRACK_172,*,6,CH	RACK NUMBER - 172	66536400
MPFEAT 172, *, 4, CH	FEATURE CODE - 172	66572000
MPUNIT_172,*,8,CH	UNIT TYPE - 172	66607600
SKIP,8	RESERVED	66643200
MPV0LENT_173, *, 32	VOLUME ENTRY - 173	66678800
MPVOLSER_173,=,6,CH	VOLUME SERIAL - 173	66714400
MPRACK_173,*,6,CH MPFEAT 173,*,4,CH	RACK NUMBER - 173 FEATURE CODE - 173	66750000 66785600
MPUNIT_173, *, 8, CH	UNIT TYPE - 173	66821200
SKIP,8	RESERVED	66856800
MPVOLENT_174,*,32	VOLUME ENTRY - 174	66892400
$MPVOLSER_174,=,6,CH$	VOLUME SERIAL - 174	66928000
MPRACK_174,*,6,CH	RACK NUMBER - 174	66963600
MPFEAT_174, *, 4, CH	FEATURE CODE - 174	66999200
MPUNIT_174,*,8,CH SKIP,8	UNIT TYPE - 174	67034800 67070400
MPVOLENT 175,*,32	RESERVED VOLUME ENTRY - 175	67070400 67106000
MPVOLSER 175,=,6,CH	VOLUME SERIAL - 175	67141600
MPRACK_175, *, 6, CH	RACK NUMBER - 175	67177200
MPFEAT_175, *, 4, CH	FEATURE CODE - 175	67212800
MPUNIT_175,*,8,CH	UNIT TYPE - 175	67248400
SKIP,8	RESERVED	67284000
MPVOLENT_176, *, 32	VOLUME ENTRY - 176	67319600
MPVOLSĒR_176,=,6,CH MPRACK 176,*,6,CH	VOLUME SERIAL - 176 RACK NUMBER - 176	67355200 67390800
MPFEAT 176,*,6,CH	FEATURE CODE - 176	67426400
MPUNIT_176, *, 8, CH	UNIT TYPE - 176	67462000
SKIP,8	RESERVED	67497600
MPVOLENT_177,*,32	VOLUME ENTRY - 177	67533200
MPVOLSER_177,=,6,CH	VOLUME SERIAL - 177	67568800
MPRACK_177, *, 6, CH	RACK NUMBER - 177	67604400
MPFEAT_177, *, 4, CH	FEATURE CODE - 177	67640000 67676400
MPUNIT_177,*,8,CH SKIP,8	UNIT TYPE - 177 RESERVED	67675600 67711200
MPVOLENT_178,*,32	VOLUME ENTRY - 178	67746800
MPVOLSER 178,=,6,CH	VOLUME SERIAL - 178	67782400
MPRACK_178,*,6,CH	RACK NUMBER - 178	67818000
$MPFEAT_178, *, 4, CH$	FEATURE CODE - 178	67853600
MPUNIT_178,*,8,CH	UNIT TYPE - 178	67889200
SKIP,8	RESERVED VOLUME ENTRY - 179	67924800 67960400
MPVOLENT_179,*,32 MPVOLSER 179,=,6,CH	VOLUME SERIAL - 179	67996000
MPRACK 179, *, 6, CH	RACK NUMBER - 179	68031600
MPFEAT_179, *, 4, CH	FEATURE CODE - 179	68067200
MPUNIT_179,*,8,CH	UNIT TYPE - 179	68102800
SKIP,8	RESERVED	68138400
MPV0LENT_180, *, 32	VOLUME ENTRY - 180	68174000
MPV0LSER_180,=,6,CH MPRACK 180,*,6,CH	VOLUME SERIAL - 180	68209600 68245200
MPRACK_180,*,6,CH MPFEAT 180,*,4,CH	RACK NUMBER - 180 FEATURE CODE - 180	68245200 68280800
MPUNIT_180,*,8,CH	UNIT TYPE - 180	68316400
SKIP,8	RESERVED	68352000
MPVOLENT_181,*,32	VOLUME ENTRY - 181	68387600
MPVOLSER_181,=,6,CH	VOLUME SERIAL - 181	68423200
MPRACK_181, *, 6, CH	RACK NUMBER - 181	68458800
MPFEAT_181,*,4,CH	FEATURE CODE - 181	68494400 68530000
MPUNIT_181,*,8,CH SKIP,8	UNIT TYPE - 181 RESERVED	68530000 68565600
MPVOLENT 182,*,32	VOLUME ENTRY - 182	68601200
MPV0LSER_182,=,6,CH	VOLUME SERIAL - 182	68636800
MPRACK_182,*,6,CH	RACK NUMBER - 182	68672400
MPFEAT_182,*,4,CH	FEATURE CODE - 182	68708000
MPUNIT_182,*,8,CH	UNIT TYPE - 182	68743600
SKIP,8 MPVOLENT 183,*,32	RESERVED VOLUME ENTRY - 183	68779200 68814800
MPVOLENT_183,*,32 MPVOLSER 183,=,6,CH	VOLUME ENTRY - 183 VOLUME SERIAL - 183	68850400
MPRACK 183,*,6,CH	RACK NUMBER - 183	68886000
MPFEAT_183, *, 4, CH	FEATURE CODE - 183	68921600
MPUNIT_183,*,8,CH	UNIT TYPE - 183	68957200
SKIP,8	RESERVED	68992800
MPVOLENT_184, *, 32	VOLUME ENTRY - 184	69028400
MPVOLSER_184,=,6,CH MPRACK 184,*,6,CH	VOLUME SERIAL - 184 RACK NUMBER - 184	69064000 69099600
MPFEAT 184,*,4,CH	FEATURE CODE - 184	69135200
220 . , , 1 , 011		0,2020

MPUNIT_184,*,8,CH	UNIT TYPE - 184	69170800
SKIP,8	RESERVED	69206400
MPVOLENT_185,*,32	VOLUME ENTRY - 185	69242000
MPVOLSĒR_185,=,6,CH	VOLUME SERIAL - 185	69277600
MPRACK 185,*,6,CH	RACK NUMBER - 185	69313200
MPFEAT 185, *, 4, CH	FEATURE CODE - 185	69348800
MPUNIT 185, *, 8, CH	UNIT TYPE - 185	69384400
SKIP,8	RESERVED	69420000
MPV0LENT_186,*,32	VOLUME ENTRY - 186	69455600
MPVOLSER 186,=,6,CH	VOLUME SERIAL - 186	69491200
MPRACK 186,*,6,CH	RACK NUMBER - 186	69526800
MPFEAT 186,*,4,CH	FEATURE CODE - 186	69562400
- · · · ·	UNIT TYPE - 186	69598000
MPUNIT_186,*,8,CH SKIP,8	RESERVED	69633600
MPV0LENT_187,*,32	VOLUME ENTRY - 187	69669200
MPVOLSER_187,=,6,CH		69704800
MPRACK_187, *, 6, CH	VOLUME SERIAL - 187	
	RACK NUMBER - 187 FEATURE CODE - 187	69740400 69776000
MPFEAT_187,*,4,CH MPUNIT_187,*,8,CH		69811600
	UNIT TYPE - 187	
SKIP,8	RESERVED	69847200
MPVOLENT_188, *, 32	VOLUME ENTRY - 188	69882800
MPV0LSER_188,=,6,CH	VOLUME SERIAL - 188	69918400
MPRACK_188, *, 6, CH	RACK NUMBER - 188	69954000
MPFEAT_188, *, 4, CH	FEATURE CODE - 188	69989600
MPUNIT_188,*,8,CH	UNIT TYPE - 188	70025200
SKIP,8	RESERVED	70060800
MPVOLENT_189, *, 32	VOLUME ENTRY - 189	70096400
MPV0LSER_189,=,6,CH	VOLUME SERIAL - 189	70132000
MPRACK_189, *, 6, CH	RACK NUMBER - 189	70167600
MPFEAT_189, *, 4, CH	FEATURE CODE - 189	70203200
MPUNIT_189, *, 8, CH	UNIT TYPE - 189	70238800
SKIP,8	RESERVED	70274400
MPVOLENT_190,*,32	VOLUME ENTRY - 190	70310000
MPV0LSER_190,=,6,CH	VOLUME SERIAL - 190	70345600
MPRACK_190, *, 6, CH	RACK NUMBER - 190	70381200
MPFEAT_190, *, 4, CH	FEATURE CODE - 190	70416800
MPUNIT_190,*,8,CH	UNIT TYPE - 190	70452400
SKIP,8	RESERVED	70488000
MPVOLENT_191, *, 32	VOLUME ENTRY - 191	70523600
MPV0LSER_191,=,6,CH	VOLUME SERIAL - 191	70559200
MPRACK_191,*,6,CH	RACK NUMBER - 191	70594800
MPFEAT_191,*,4,CH	FEATURE CODE - 191	70630400
MPUNIT_191,*,8,CH	UNIT TYPE - 191	70666000
SKIP,8	RESERVED	70701600
MPV0LENT_192, *, 32	VOLUME ENTRY - 192	70737200
MPVOLSER_192,=,6,CH	VOLUME SERIAL - 192	70772800
MPRACK_192,*,6,CH	RACK NUMBER - 192	70808400
MPFEAT_192,*,4,CH	FEATURE CODE - 192	70844000
MPUNIT_192,*,8,CH	UNIT TYPE - 192	70879600
SKIP,8	RESERVED	70915200
MPVOLENT_193,*,32	VOLUME ENTRY - 193	70950800
MPVOLSER_193,=,6,CH	VOLUME SERIAL - 193	70986400
MPRACK_193,*,6,CH	RACK NUMBER - 193	71022000
MPFEAT_193,*,4,CH	FEATURE CODE - 193	71057600
MPUNIT_193,*,8,CH	UNIT TYPE - 193	71093200
SKIP,8	RESERVED	71128800
MPVOLENT_194,*,32	VOLUME ENTRY - 194	71164400
MPVOLSER_194,=,6,CH	VOLUME SERIAL - 194	71200000
MPRACK_194,*,6,CH	RACK NUMBER - 194	71235600
MPFEAT_194,*,4,CH	FEATURE CODE - 194	71271200
MPUNIT_194,*,8,CH	UNIT TYPE - 194	71306800
SKIP,8	RESERVED	71342400
MPV0LENT_195,*,32	VOLUME ENTRY - 195	71378000
MPVOLSER_195,=,6,CH	VOLUME SERIAL - 195	71413600
MPRACK_195,*,6,CH	RACK NUMBER - 195	71449200
MPFEAT_195,*,4,CH	FEATURE CODE - 195	71484800
MPUNIT_195,*,8,CH	UNIT TYPE - 195	71520400
SKIP,8	RESERVED	71556000
MPVOLENT_196,*,32	VOLUME ENTRY - 196	71591600
MPVOLSER_196,=,6,CH	VOLUME SERIAL - 196	71627200
MPRACK_196,*,6,CH	RACK NUMBER - 196	71662800
MPFEAT_196,*,4,CH	FEATURE CODE - 196	71698400
MPUNIT_196,*,8,CH	UNIT TYPE - 196	71734000
SKIP,8	RESERVED	71769600
MPVOLENT_197,*,32	VOLUME ENTRY - 197	71805200
MPVOLSER_197,=,6,CH	VOLUME SERIAL - 197	71840800
MPRACK_197,*,6,CH	RACK NUMBER - 197	71876400
MPFEAT_197,*,4,CH	FEATURE CODE - 197	71912000
MPUNIT_197,*,8,CH	UNIT TYPE - 197	71947600
SKIP,8	RESERVED	71983200
MPV0LENT_198,*,32	VOLUME ENTRY - 198	72018800
MPVOLSER_198,=,6,CH	VOLUME SERIAL - 198	72054400

MPRACK_198,*,6,CH	RACK NUMBER - 198	72090000
MPFEAT_198,*,4,CH	FEATURE CODE - 198	72125600
MPUNIT_198, *, 8, CH	UNIT TYPE - 198	72161200
SKIP,8	RESERVED	72196800
MPVOLENT_199,*,32	VOLUME ENTRY - 199	72232400
$MPVOLSER_199, =, 6, CH$	VOLUME SERIAL - 199	72268000
$MPRACK_199, *, 6, CH$	RACK NUMBER - 199	72303600
MPFEAT_199,*,4,CH	FEATURE CODE - 199	72339200
MPUNIT_199,*,8,CH	UNIT TYPE - 199	72374800
SKIP,8	RESERVED	72410400
MPVOLENT_200,*,32	VOLUME ENTRY - 200	72446000
MPVOLSER_200,=,6,CH	VOLUME SERIAL - 200	72481600
MPRACK_200,*,6,CH	RACK NUMBER - 200	72517200
MPFEAT_200,*,4,CH	FEATURE CODE - 200	72552800
MPUNIT_200,*,8,CH	UNIT TYPE - 200	72588400
SKIP,8	RESERVED	72624000
MPVOLENT_201,*,32	VOLUME ENTRY - 201	72659600
$MPVOLSER_201,=,6,CH$	VOLUME SERIAL - 201	72695200
MPRACK_201,*,6,CH	RACK NUMBER - 201	72730800
MPFEAT_201,*,4,CH	FEATURE CODE - 201	72766400
MPUNIT_201,*,8,CH	UNIT TYPE - 201	72802000
SKIP,8	RESERVED	72837600
MPVOLENT_202,*,32	VOLUME ENTRY - 202	72873200
$MPVOLSER_202, =, 6, CH$	VOLUME SERIAL - 202	72908800
$MPRACK_202, \star, 6, CH$	RACK NUMBER - 202	72944400
$MPFEAT_202, \star, 4, CH$	FEATURE CODE - 202	72980000
MPUNIT_202,*,8,CH	UNIT TYPE - 202	73015600
SKIP,8	RESERVED	73051200
MPVOLENT_203,*,32	VOLUME ENTRY - 203	73086800
$MPVOLSER_203,=,6,CH$	VOLUME SERIAL - 203	73122400
$MPRACK_2\overline{0}3, *, 6, CH$	RACK NUMBER - 203	73158000
MPFEAT_203,*,4,CH	FEATURE CODE - 203	73193600
MPUNIT_203,*,8,CH	UNIT TYPE - 203	73229200
SKIP,8	RESERVED	73264800
MPVOLENT_204,*,32	VOLUME ENTRY - 204	73300400
$MPVOLSER_204,=,6,CH$	VOLUME SERIAL - 204	73336000
MPRACK_204,*,6,CH	RACK NUMBER - 204	73371600
MPFEAT_204,*,4,CH	FEATURE CODE - 204	73407200
MPUNIT_204,*,8,CH	UNIT TYPE - 204	73442800
SKIP,8	RESERVED	73478400
MPV0LENT_205,*,32	VOLUME ENTRY - 205	73514000
$MPVOLSER_205,=,6,CH$	VOLUME SERIAL - 205	73549600
MPRACK_205,*,6,CH	RACK NUMBER - 205	73585200
MPFEAT_205,*,4,CH	FEATURE CODE - 205	73620800
MPUNIT_205,*,8,CH	UNIT TYPE - 205	73656400
SKIP,8	RESERVED	73692000
MPVOLENT_206,*,32	VOLUME ENTRY - 206	73727600
$MPVOLSER_206,=,6,CH$	VOLUME SERIAL - 206	73763200
MPRACK_206,*,6,CH	RACK NUMBER - 206	73798800
MPFEAT_206,*,4,CH	FEATURE CODE - 206	73834400
MPUNIT_206,*,8,CH	UNIT TYPE - 206	73870000
SKIP,8	RESERVED	73905600
MPVOLENT_207,*,32	VOLUME ENTRY - 207	73941200
$MPVOLSER_207, =, 6, CH$	VOLUME SERIAL - 207	73976800
$MPRACK_207, \star, 6, CH$	RACK NUMBER - 207	74012400
$MPFEAT_207, \star, 4, CH$	FEATURE CODE - 207	74048000
MPUNIT_207,*,8,CH	UNIT TYPE - 207	74083600
SKIP,8	RESERVED	74119200
MPV0LENT_208, *, 32	VOLUME ENTRY - 208	74154800
MPV0LSER_208,=,6,CH	VOLUME SERIAL - 208	74190400
MPRACK_208, *, 6, CH	RACK NUMBER - 208	74226000
MPFEAT_208,*,4,CH	FEATURE CODE - 208	74261600
MPUNIT_208,*,8,CH	UNIT TYPE - 208	74297200
SKIP,8	RESERVED	74332800
MPV0LENT_209, *, 32	VOLUME ENTRY - 209	74368400
MPV0LSER_209,=,6,CH	VOLUME SERIAL - 209	74404000
MPRACK_209, *, 6, CH	RACK NUMBER - 209	74439600
MPFEAT_209, *, 4, CH	FEATURE CODE - 209	74475200
MPUNIT_209, *, 8, CH	UNIT TYPE - 209	74510800
SKIP,8	RESERVED	74546400
MPV0LENT_210, *, 32	VOLUME ENTRY - 210	74582000
MPV0LSER_210,=,6,CH	VOLUME SERIAL - 210	74617600
MPRACK_210, *, 6, CH	RACK NUMBER - 210	74653200
MPFEAT_210, *, 4, CH	FEATURE CODE - 210	74688800
MPUNIT_210,*,8,CH	UNIT TYPE - 210	74724400
SKIP,8	RESERVED	74760000
MPV0LENT_211, *, 32	VOLUME ENTRY - 211	74795600
MPV0LSER_211,=,6,CH	VOLUME SERIAL - 211	74831200
MPRACK_211, *, 6, CH	RACK NUMBER - 211	74866800
MPFEAT_211,*,4,CH	FEATURE CODE - 211	74902400
MPUNIT_211,*,8,CH	UNIT TYPE - 211	74938000 74073400
SKIP,8	RESERVED	74973600

MPVOLENT 212,*,32	VOLUME ENTRY - 212	75009200
MPVOLSER 212,=,6,CH	VOLUME SERIAL - 212	75044800
MPRACK 212,*,6,CH	RACK NUMBER - 212	75080400
MPFEAT_212,*,4,CH	FEATURE CODE - 212	75116000
MPUNIT 212,*,8,CH	UNIT TYPE - 212	75151600
	RESERVED	75187200
SKIP,8		
MPVOLENT_213, *, 32	VOLUME ENTRY - 213	75222800
MPV0LSER_213,=,6,CH	VOLUME SERIAL - 213	75258400
MPRACK_213, *, 6, CH	RACK NUMBER - 213	75294000
MPFEAT_213,*,4,CH	FEATURE CODE - 213	75329600
MPUNIT_213, *, 8, CH	UNIT TYPE - 213	75365200
SKIP,8	RESERVED	75400800
MPVOLENT_214,*,32	VOLUME ENTRY - 214	75436400
MPVOLSER_214,=,6,CH	VOLUME SERIAL - 214	75472000
MPRACK_214,*,6,CH	RACK NUMBER - 214	75507600
MPFEAT_214,*,4,CH	FEATURE CODE - 214	75543200
MPUNIT_214,*,8,CH	UNIT TYPE - 214	75578800
SKIP,8	RESERVED	75614400
MPV0LENT_215,*,32	VOLUME ENTRY - 215	75650000
MPVOLSER_215,=,6,CH	VOLUME SERIAL - 215	75685600
MPRACK_215,*,6,CH	RACK NUMBER - 215	75721200
MPFEAT_215, *, 4, CH	FEATURE CODE - 215	75756800
MPUNIT 215,*,8,CH	UNIT TYPE - 215	75792400
SKIP,8	RESERVED	75828000
MPVOLENT_216,*,32	VOLUME ENTRY - 216	75863600
MPVOLSER 216,=,6,CH	VOLUME SERIAL - 216	75899200
MPRACK 216,*,6,CH	RACK NUMBER - 216	75934800
MPFEAT 216,*,4,CH	FEATURE CODE - 216	75970400
	UNIT TYPE - 216	76006000
MPUNIT_216,*,8,CH		
SKIP,8	RESERVED	76041600 76077200
MPVOLENT_217, *, 32	VOLUME ENTRY - 217	76077200 76113800
MPV0LSER_217,=,6,CH	VOLUME SERIAL - 217	76112800
MPRACK_217, *, 6, CH	RACK NUMBER - 217	76148400
MPFEAT_217, *, 4, CH	FEATURE CODE - 217	76184000
MPUNIT_217,*,8,CH	UNIT TYPE - 217	76219600
SKIP,8	RESERVED	76255200
MPVOLENT_218,*,32	VOLUME ENTRY - 218	76290800
MPVOLSER_218,=,6,CH	VOLUME SERIAL - 218	76326400
MPRACK 218,*,6,CH	RACK NUMBER - 218	76362000
MPFEAT_218, *, 4, CH	FEATURE CODE - 218	76397600
MPUNIT_218,*,8,CH	UNIT TYPE - 218	76433200
SKIP,8	RESERVED	76468800
MPVOLENT_219,*,32	VOLUME ENTRY - 219	76504400
MPV0LSER_219,=,6,CH	VOLUME SERIAL - 219	76540000
MPRACK 219,*,6,CH	RACK NUMBER - 219	76575600
MPFEAT 219, *, 4, CH	FEATURE CODE - 219	76611200
MPUNIT_219, *, 8, CH	UNIT TYPE - 219	76646800
SKIP,8	RESERVED	76682400
MPVOLENT_220,*,32	VOLUME ENTRY - 220	76718000
MPV0LSER_220,=,6,CH	VOLUME SERIAL - 220	76753600 76788300
MPRACK_220, *, 6, CH	RACK NUMBER - 220 FEATURE CODE - 220	76789200
MPFEAT_220, *, 4, CH		76824800
MPUNIT_220,*,8,CH	UNIT TYPE - 220	76860400 76806000
SKIP,8	RESERVED	76896000 76031600
MPVOLENT_221,*,32	VOLUME SERTAL 221	76931600 76067300
MPV0LSER_221,=,6,CH	VOLUME SERIAL - 221	76967200
MPRACK_221,*,6,CH	RACK NUMBER - 221	77002800
MPFEAT_221,*,4,CH	FEATURE CODE - 221	77038400
MPUNIT_221,*,8,CH	UNIT TYPE - 221	77074000
SKIP,8	RESERVED	77109600
MPVOLENT_222,*,32	VOLUME ENTRY - 222	77145200
MPV0LSER_222,=,6,CH	VOLUME SERIAL - 222	77180800
MPRACK_222, *, 6, CH	RACK NUMBER - 222	77216400
MPFEAT_222, *, 4, CH	FEATURE CODE - 222	77252000
MPUNIT_222,*,8,CH	UNIT TYPE - 222	77287600
SKIP,8	RESERVED	77323200
MPV0LENT_223,*,32	VOLUME ENTRY - 223	77358800
MPVOLSER_223,=,6,CH	VOLUME SERIAL - 223	77394400
MPRACK_223,*,6,CH	RACK NUMBER - 223	77430000
MPFEAT_223,*,4,CH	FEATURE CODE - 223	77465600
MPUNIT_223,*,8,CH	UNIT TYPE - 223	77501200
SKIP,8	RESERVED	77536800
MPV0LENT_224,*,32	VOLUME ENTRY - 224	77572400
$MPVOLSER_224$,=,6,CH	VOLUME SERIAL - 224	77608000
MPRACK 224,*,6,CH	RACK NUMBER - 224	77643600
MPFEAT_224, *, 4, CH	FEATURE CODE - 224	77679200
MPUNIT_224,*,8,CH	UNIT TYPE - 224	77714800
SKIP.8	RESERVED	77750400
SKIP,8 MPVOLENT 225,*,32	RESERVED VOLUME ENTRY - 225	
MPVOLENT_225,*,32	VOLUME ENTRY - 225	77786000
MPVOLENT_225,*,32 MPVOLSER_225,=,6,CH	VOLUME ENTRY - 225 VOLUME SERIAL - 225	77786000 77821600
MPVOLENT_225,*,32	VOLUME ENTRY - 225	77786000

MPUNIT_225,*,8,CH	UNIT TYPE - 225	77928400
SKIP,8	RESERVED	77964000
MPVOLENT_226,*,32	VOLUME ENTRY - 226	77999600
MPVOLSER 226,=,6,CH	VOLUME SERIAL - 226	78035200
MPRACK 226,*,6,CH	RACK NUMBER - 226	78070800
MPFEAT 226,*,4,CH	FEATURE CODE - 226	78106400
MPUNIT 226,*,8,CH	UNIT TYPE - 226	78142000
SKIP,8	RESERVED	78177600
MPVOLENT_227,*,32	VOLUME ENTRY - 227	78213200
$MPVOLSER_227, =, 6, CH$	VOLUME SERIAL - 227	78248800
MPRACK_227,*,6,CH	RACK NUMBER - 227	78284400
MPFEAT_227,*,4,CH	FEATURE CODE - 227	78320000
MPUNIT 227, *, 8, CH	UNIT TYPE - 227	78355600
SKIP,8	RESERVED	78391200
MPV0LENT_228,*,32	VOLUME ENTRY - 228	78426800
MPVOLSER_228,=,6,CH	VOLUME SERIAL - 228	78462400
MPRACK_228,*,6,CH	RACK NUMBER - 228	78498000
MPFEAT_228, *, 4, CH	FEATURE CODE - 228	78533600 78560300
MPUNIT_228,*,8,CH	UNIT TYPE - 228	78569200
SKIP,8	RESERVED	78604800
MPVOLENT_229,*,32	VOLUME ENTRY - 229	78640400
MPVOLSER_229,=,6,CH	VOLUME SERIAL - 229	78676000
MPRACK_229,*,6,CH	RACK NUMBER - 229	78711600
MPFEAT 229, *, 4, CH	FEATURE CODE - 229	78747200
MPUNIT 229, *, 8, CH	UNIT TYPE - 229	78782800
SKIP,8	RESERVED	78818400
MPVOLENT 230,*,32	VOLUME ENTRY - 230	78854000
MPVOLSER 230,=,6,CH	VOLUME SERIAL - 230	78889600
MPRACK_230,*,6,CH	RACK NUMBER - 230	78925200
MPFEAT_230, *, 4, CH	FEATURE CODE - 230	78960800
MPUNIT_230, *, 8, CH	UNIT TYPE - 230	78996400
SKIP,8	RESERVED	79032000
MPV0LENT_231,*,32	VOLUME ENTRY - 231	79067600
MPVOLSER_231,=,6,CH	VOLUME SERIAL - 231	79103200
MPRACK 231,*,6,CH	RACK NUMBER - 231	79138800
MPFEAT 231, *, 4, CH	FEATURE CODE - 231	79174400
MPUNIT_231,*,8,CH	UNIT TYPE - 231	79210000
SKIP,8	RESERVED	79245600
MPVOLENT 232,*,32	VOLUME ENTRY - 232	79281200
	VOLUME SERIAL - 232	79201200
MPV0LSER_232,=,6,CH		
MPRACK_232, *, 6, CH	RACK NUMBER - 232	79352400
MPFEAT_232, *, 4, CH	FEATURE CODE - 232	79388000
MPUNIT_232,*,8,CH	UNIT TYPE - 232	79423600
SKIP,8	RESERVED	79459200
MPV0LENT_233,*,32	VOLUME ENTRY - 233	79494800
MPVOLSER 233,=,6,CH	VOLUME SERIAL - 233	79530400
MPRACK 233,*,6,CH	RACK NUMBER - 233	79566000
MPFEAT_233, *, 4, CH	FEATURE CODE - 233	79601600
MPUNIT_233,*,8,CH	UNIT TYPE - 233	79637200
SKIP,8	RESERVED	79672800
MPVOLENT_234,*,32	VOLUME ENTRY - 234	79708400
	VOLUME SERIAL - 234	79744000
MPVOLSER_234,=,6,CH MPRACK_234,*,6,CH		
	RACK NUMBER - 234	79779600 79815200
MPFEAT_234, *, 4, CH	FEATURE CODE - 234	
MPUNIT_234,*,8,CH	UNIT TYPE - 234	79850800
SKIP,8	RESERVED	79886400
MPV0LENT_235, *, 32	VOLUME ENTRY - 235	79922000
MPV0LSER_235,=,6,CH	VOLUME SERIAL - 235	79957600
MPRACK_235, *, 6, CH	RACK NUMBER - 235	79993200
$MPFEAT_235, \star, 4, CH$	FEATURE CODE - 235	80028800
MPUNIT_235,*,8,CH	UNIT TYPE - 235	80064400
SKIP,8	RESERVED	80100000
MPV0LENT_236,*,32	VOLUME ENTRY - 236	80135600
MPVOLSER 236,=,6,CH	VOLUME SERIAL - 236	80171200
MPRACK 236,*,6,CH	RACK NUMBER - 236	80206800
MPFEAT_236,*,4,CH	FEATURE CODE - 236	80242400
MPUNIT 236,*,8,CH	UNIT TYPE - 236	80278000
SKIP,8	RESERVED	80313600
MPVOLENT_237, *, 32	VOLUME ENTRY - 237	80349200
MPVOLSER_237,=,6,CH	VOLUME SERIAL - 237	80384800
MPRACK_237,*,6,CH	RACK NUMBER - 237	80420400
MPFEAT_237,*,4,CH	FEATURE CODE - 237	80456000
MPUNIT_237,*,8,CH	UNIT TYPE - 237	80491600
SKIP,8	RESERVED	80527200
MPV0LENT 238,*,32	VOLUME ENTRY - 238	80562800
MPVOLSER 238,=,6,CH	VOLUME SERIAL - 238	80598400
MPRACK 238,*,6,CH	RACK NUMBER - 238	80634000
MPFEAT 238,*,4,CH	FEATURE CODE - 238	80669600
MPUNIT 238,*,8,CH	UNIT TYPE - 238	80705200
SKIP,8	RESERVED	80740800
		80776400
MPVOLENT_239,*,32	VOLUME SERTAL - 239	
MPVOLSER_239,=,6,CH	VOLUME SERIAL - 239	80812000

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MPUNIT 299 , 8, CH SKIP, 8	MPRACK_239,*,6,CH	RACK NUMBER - 239	80847600
SKIP, 8 MYOLENT 240, *2 MYOLENT 240, *6, C,	MPFEAT_239,*,4,CH	FEATURE CODE - 239	80883200
##POLENT_240_#, 32	MPUNIT_239,*,8,CH	UNIT TYPE - 239	80918800
MPVOLSTE, 240, -, 6, CH MPREAT 240, -, 4, CH MPREAT 241, -, 4, CH MPREAT 242, -, 3, CH MPREAT 243, -, 8, CH MPREAT 243, -, 4, CH MPREAT 243, -, 4, CH MPREAT 244, -, 3, CH MPREAT 245, -, 5, CH MPREAT 246, -, 4, CH MPREAT 247, -, 3, CH MPREAT 247, -, 3, CH MPREAT 248, -, 3, CH MPREAT 249, -, 3, CH MPREAT 249, -, 3, CH MPREAT 241, -, 6, CH MPREAT 241, -, 6, CH MPREAT 242, -, 6, CH MPREAT 242, -, 6, CH MPREAT 243, -, 6, CH MPREAT 244, -, 4, CH MPREAT 247, -, 6, CH MPREAT 247, -, 6, CH MPREAT 248, -, 4, CH MPREAT 248, -, 4, CH MPREAT 248, -, 6, CH MPREAT 248, -, 4, CH MPREAT 248, -, 6, CH MPREAT 248, -, 6, CH MPREAT 248, -, 6, CH MPREAT 249, -, 6, CH MPREAT 249, -, 6, CH MPREAT 249, -, 6, CH MPREAT 247, -, 6, CH MPREAT 248, -, 6, CH MPREAT 249, -, 6, CH MPREAT	SKIP,8	RESERVED	80954400
MPFACK_240, -x, 4, 0, 1 MPFACK_240, -x, 4, 0, 1 MPFOLETY_241, -x, 3, 2 MPVOLEST_241, -x, 6, 0, 1 MPFACK_241, -x, 6, 0, 1 MPFACK_242, -x,	MPVOLENT_240,*,32	VOLUME ENTRY - 240	80990000
MPFEAT_240, #, 4, CH MPUNIT_240, #, 8, CH MPUNIT_240, #, 8, CH MPUNIT_241, #, 32 MPUNIT_241, #, 4, CH MPFEAT_241, #, 4, CH MPFEAT_241, #, 4, CH MPUNIT_241, #, 8, CH MPUNIT_241, #, 8, CH MPUNIT_241, #, 8, CH MPUNIT_242, #, 8, CH MPRACK_243, #, 6, CH MPRACK_244, #, 6, CH MPRACK_245, #, 6, CH MPRACK_246,	$MPVOLSER_240,=,6,CH$	VOLUME SERIAL - 240	81025600
MPUNIT_240, #, 8, CH	MPRACK_240,*,6,CH	RACK NUMBER - 240	81061200
SKIP, 9 MPVOLENT 241, *, 32 MPVOLEST 241, *, 4, 8, 0H MPGEAT 242, *, 4, 0H MPGEAT 243, *, 4, 0H MPGEAT 243, *, 4, 0H MPGEAT 243, *, 4, 0H MPGEAT 244, *, 4, 0H MPGEAT 246, *, 4,	MPFEAT 240, *, 4, CH	FEATURE CODE - 240	81096800
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MPFEAT_2241, *, 4, CH MPUNIT_2241, *, 8, CH MPSEAT_2241, *, 4, CH MPSEAT_2241, *, 4, CH MPSEAT_2242, *, 4, CH MPFEAT_2242, *, 4, CH MPFEAT_2243, *, 2, CH MPUNIT_2242, *, 8, CH MPVOLENES_2242, *, 4, CH MPUNIT_2243, *, 8, CH MPFEAT_223, *, 4, CH MPFEAT_223, *, 4, CH MPFEAT_223, *, 4, CH MPFEAT_2243, *, 6, CH MPFEAT_2244, *, 4, CH MPFEAT_2244, *, 6, CH		VOLUME SERIAL - 241	81239200
MPULETT_241, *, 8, CH NYOLENT_242, *, 32 MPVOLENT_242, *, 32 MPVOLENT_242, *, 32 MPVOLENT_242, *, 4, CH MPFEAT_242, *, 4, CH MPFEAT_242, *, 4, CH MPULTT_242, *, 8, CH MPVOLENT_243, *, 3, CH MPVOLENT_244, *, 4, CH MPULT_323, *, 8, CH MPVOLENT_244, *, 4, CH MPVOLENT_244, *, 4, CH MPVOLENT_244, *, 5, CH MPVOLENT_244, *, 6, CH MPFEAT_245, *, 6, CH MPFEAT_246, *, 4, CH MPFEAT_246, *, 4, CH MPFEAT_245, *, 8, CH MPVOLENT_244, *, 8, CH MPVOLENT_244, *, 8, CH MPVOLENT_244, *, 8, CH MPVOLENT_245, *, 8, CH MPVOLENT_245, *, 8, CH MPVOLENT_246, *, 8, CH MPVOLENT_2	MPRACK 241,*,6,CH	RACK NUMBER - 241	81274800
SKIP_8 PVOLENT_242_*,32 VOLUME ENTRY	MPFEAT_241,*,4,CH	FEATURE CODE - 241	81310400
SKIP_8 PVOLENT_242_*,32 VOLUME ENTRY	MPUNIT_241,*,8,CH	UNIT TYPE - 241	81346000
MPYOLEN 224 ; = ,6, CH MPFEAT 242 ; = ,6, CH MPFEAT 242 ; 4, CH MPFEAT 243 ; 4, CH MPFEAT 243 ; 32 MPYOLEN 243 ; 32 MPYOLEN 243 ; 6, CH MPFEAT 243 ; 4, CH MPFEAT 243 ; 8, CH MPFEAT 244 ; 8, CH MPFEAT 244 ; 8, CH MPFEAT 244 ; 4, CH MPFEAT 244 ; 5, CH MPFEAT 245 ; 6, CH MPFEAT 245 ; 7, CH MPFEAT 245 ; 8, CH MPFEAT 246 ; 7, CH MPFEAT 246 ; 7, CH MPFEAT 246 ; 7, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 7, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 249 ; 8, CH MPFEAT 249 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 249 ; 8, CH MPFEAT 250 ; 4, CH MPFEAT 250		RESERVED	81381600
MPYOLEN 224 ; = 6, CH MPFEAT 242 ; = 4, CH MPFEAT 242 ; 4, CH MPFEAT 243 ; 3, CH MPYOLEN 243 ; 3, 22 MPYOLEN 243 ; 4, CH MPFEAT 243 ; 8, CH MPFEAT 243 ; 8, CH MPFEAT 243 ; 8, CH MPFEAT 244 ; 3, 2 MPYOLEN 244 ; 3, 2 MPYOLEN 244 ; 6, CH MPFEAT 244 ; 4, CH MPFEAT 245 ; 6, CH MPFEAT 245 ; 7, CH MPFEAT 245 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 249 ; 8, CH MPFEAT 249 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 246 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 247 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 248 ; 8, CH MPFEAT 249 ; 8, CH MPFEAT 259 ; 8, CH MPFEAT 250 ; 8, CH MPFEAT	MPV0LENT_242,*,32	VOLUME ENTRY - 242	81417200
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SKIP_8	MPFEAT_242,*,4,CH	FEATURE CODE - 242	81524000
MPVOLENT_243_*,32	MPUNIT_242,*,8,CH	UNIT TYPE - 242	81559600
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MPRACK_243, *, 6, CH RACK_NUMBER - 243 81792000 MPREAT_243, *, 4, CH FEATURE CODE - 243 81737600 MPUNIT_243, *, 8, CH SEFEYED 81808000 MPVOLENT_244, *, 8, CH VOLUME_SERTAL - 244 81844400 MPVOLENT_244, *, 6, CH RACK_NUMBER - 244 819515000 MPRACK_244, *, 6, CH RACK_NUMBER - 244 81951500 MPRACK_244, *, 6, CH RACK_NUMBER - 244 81951500 MPRACK_244, *, 6, CH RACK_NUMBER - 244 81951200 MPUNITT_244, *, 8, CH WINIT_TYPE - 244 8196800 MPVOLENT_245, *, 32 MPVOLENT_245, *, 32 MPVOLENT_245, *, 4, CH FEATURE CODE - 245 8208000 MPFEAT_245, *, 6, CH RACK_NUMBER - 245 82129200 MPFEAT_245, *, 6, CH RACK_NUMBER - 245 82129200 MPFEAT_245, *, 6, CH RACK_NUMBER_245 82129200 MPVOLENT_246, *, 8, CH UNIT_TYPE - 245 82124000 MPVOLENT_246, *, 8, CH UNIT_TYPE - 245 82124000 MPVOLENT_246, *, 32 MPVOLENT_246, *, 32 MPVOLENT_246, *, 32 MPVOLENT_246, *, 32 MPVOLENT_246, *, 4, CH FEATURE CODE - 245 82124000 MPVOLENT_246, *, 32 MPVOLENT_246, *, 32 MPVOLENT_246, *, 4, CH FEATURE CODE - 246 82397200 MPVOLENT_246, *, 4, CH FEATURE CODE - 246 82397200 MPVOLENT_247, *, 32 MPVOLENT_249, *, 32 MPVOLENT_251, *, 42 MPVOLENT_252, *, 43 MPVOLENT_252, *, 44 MPREAT_252, *, 44 MPREAT	MPV0LENT_243,*,32	VOLUME ENTRY - 243	81630800
MPFEAT_243,*,4,6H FEATURE CODE - 243 81737600 MPUNIT_243,*,8,6H UNIT TYPE - 243 81773200 SKIP,8 MPUNISER_244,*,32 VOLUME ENTRY - 244 81880000 MPVOLESTE_244,*,32 VOLUME SETAL - 244 81880000 MPRACK_244,*,6,CH RACK NUMBER - 244 81951600 MPPEAT_244,*,4,CH FEATURE CODE - 244 81951200 MPVOLESTE_244,*,4,CH UNIT TYPE - 244 81951200 MPVOLESTE_244,*,5,CH UNIT TYPE - 245 8208000 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82093600 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82193600 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82193600 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82192900 MPVOLESTE_246,*,6,CH RACK NUMBER - 246 82271600 MPVOLESTE_246,*,6,CH VOLUME ENTRY - 246 82271600 MPRACK_246,*,6,CH RACK NUMBER - 246 82307200 MPRACK_247,*,6,CH RACK NUMBER - 246 82307200 MPRACK_246,*,6,CH RACK NUMBER - 246 82342800 MPVOLEST_246,*,8,CH RACK NUMBER - 246 82342800 MPRACK_247,*,6,CH RACK NUMBER - 246 82378400 MPVOLEST_247,*,3,CH RESERVED 8240600 MPFEAT_247,*,4,CH FEATURE CODE - 246 82378400 MPVOLEST_247,*,4,CH FEATURE CODE - 247 82592000 MPVOLEST_248,*,6,CH MACK NUMBER - 247 82592000 MPVOLEST_248,*,6,CH MACK NUMBER - 247 82592000 MPVOLEST_248,*,6,CH MACK NUMBER - 248 8277600 MPVOLEST_248,*,6,CH MACK NUMBER - 249 82698800 MPVOLEST_248,*,4,CH FEATURE CODE - 247 82592000 MPVOLEST_248,*,4,CH FEATURE CODE - 248 82698800 MPVOLEST_248,*,4,CH FEATURE CODE - 249 8269800 MPVOLEST_250,*,6,CH RACK NUMBER - 249 82698800 MPVOLENT_249,*,6,CH RACK NUMBER - 249 82698800 MPVOLENT_249,*,6,CH RACK NUMBER - 249 82698800 MPVOLENT_249,*,6,CH RACK NUMBER - 250 83116600 MPRACK_250,*,6,CH RACK NUMBER - 250 83116000 MPVOLEST_250,*,6,CH RACK NUMBER - 250 83116000 MPVOLEST_250,*,8,CH UNIT TYPE - 250 83116000 MPVOLEST_250,	MPVOLSER_243,=,6,CH	VOLUME SERIAL - 243	81666400
MPFEAT_243,*,4,6H FEATURE CODE - 243 81737600 MPUNIT_243,*,8,6H UNIT TYPE - 243 81773200 SKIP,8 MPUNISER_244,*,32 VOLUME ENTRY - 244 81880000 MPVOLESTE_244,*,32 VOLUME SETAL - 244 81880000 MPRACK_244,*,6,CH RACK NUMBER - 244 81951600 MPPEAT_244,*,4,CH FEATURE CODE - 244 81951200 MPVOLESTE_244,*,4,CH UNIT TYPE - 244 81951200 MPVOLESTE_244,*,5,CH UNIT TYPE - 245 8208000 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82093600 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82193600 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82193600 MPVOLESTE_245,*,6,CH RACK NUMBER - 245 82192900 MPVOLESTE_246,*,6,CH RACK NUMBER - 246 82271600 MPVOLESTE_246,*,6,CH VOLUME ENTRY - 246 82271600 MPRACK_246,*,6,CH RACK NUMBER - 246 82307200 MPRACK_247,*,6,CH RACK NUMBER - 246 82307200 MPRACK_246,*,6,CH RACK NUMBER - 246 82342800 MPVOLEST_246,*,8,CH RACK NUMBER - 246 82342800 MPRACK_247,*,6,CH RACK NUMBER - 246 82378400 MPVOLEST_247,*,3,CH RESERVED 8240600 MPFEAT_247,*,4,CH FEATURE CODE - 246 82378400 MPVOLEST_247,*,4,CH FEATURE CODE - 247 82592000 MPVOLEST_248,*,6,CH MACK NUMBER - 247 82592000 MPVOLEST_248,*,6,CH MACK NUMBER - 247 82592000 MPVOLEST_248,*,6,CH MACK NUMBER - 248 8277600 MPVOLEST_248,*,6,CH MACK NUMBER - 249 82698800 MPVOLEST_248,*,4,CH FEATURE CODE - 247 82592000 MPVOLEST_248,*,4,CH FEATURE CODE - 248 82698800 MPVOLEST_248,*,4,CH FEATURE CODE - 249 8269800 MPVOLEST_250,*,6,CH RACK NUMBER - 249 82698800 MPVOLENT_249,*,6,CH RACK NUMBER - 249 82698800 MPVOLENT_249,*,6,CH RACK NUMBER - 249 82698800 MPVOLENT_249,*,6,CH RACK NUMBER - 250 83116600 MPRACK_250,*,6,CH RACK NUMBER - 250 83116000 MPVOLEST_250,*,6,CH RACK NUMBER - 250 83116000 MPVOLEST_250,*,8,CH UNIT TYPE - 250 83116000 MPVOLEST_250,	MPRACK_243,*,6,CH	RACK NUMBER - 243	81702000
MPUNITT_243, *, 8, CH SKIP, 8 KEEVED MPYOLENT 244, *, 32 MPYOLENT 244, *, 3, 2 MPYOLENT 244, *, 4, 6, CH MPRACK, 244, *, 6, CH MPRACK, 244, *, 6, CH MPRACK 245, *, 6, CH MPOLENT 245, *, 3, CH MPOLENT 245, *, 4, CH MPOLENT 245, *, 4, CH MPOLENT 245, *, 4, CH MPRACK 255, *, 6, CH MPRACK 246, *, 6, CH MPRACK 247, *, 6, CH MPRACK 248, *, 6, CH MPRACK 247, *, 6, CH MPRACK 248, *, 6, CH MPRACK 248, *, 6, CH MPRACK 247, *, 6, CH MPRACK 248, *, 6, CH MPRACK 247, *, 6, CH MPRACK 247, *, 6, CH MPRACK 248, *, 6, CH MPRACK 248, *, 6, CH MPRACK 249, *,			81737600
SKIP.8		UNIT TYPE - 243	81773200
MPYOLENT_244, *, 32 MPYOLENT_244, *, 6, CH MPRACK_244, *, 6, CH MPRACK_244, *, 6, CH MPFEAT_244, *, 4, CH MPVOLENT_244, *, 8, CH MPVOLENT_244, *, 8, CH MPVOLENT_245, *, 32 MPVOLENT_246, *, 32 MPVOLENT_246, *, 32 MPVOLENT_246, *, 32 MPVOLENT_247, *, 32 MPVOLENT_248, *, 3, CH MPFEAT_247, *, 4, CH MPFEAT_245, *, 4, CH MPFEAT_250, *, 4, CH MPFEAT_251, *, 4, CH MPFEAT_251, *, 4, CH MPFEAT_251, *, 4, CH MPFEAT_252, *, 32 MPVOLENT_252, *, 32 MPVO		RESERVED	81808800
MPRACK_24\(.e., 6\), CH		VOLUME ENTRY - 244	81844400
MPFEAT_244, *, 4, CH MPUNIT_244, *, 8, CH MPUNIT_244, *, 8, CH MPUNIT_244, *, 8, CH MPUNIT_244, *, 8, CH MPVOLSER_245, *, 6, CH MPRACK_245, *, 8, CH MPINIT_245, *, 8, CH MPUNIT_245, *, 8, CH MPOUSER_246, *, 6, CH MPRACK_260, *, 6, CH MPUNIT_246, *, 8, CH MPUNIT_246, *, 8, CH MPUNIT_246, *, 8, CH MPUNIT_246, *, 8, CH MPRACK_276, *, 6, CH MPRACK_277, *, 6, CH MPRACK_276, *, 6, CH MPRACK			81880000
MPUNIT_244, *, 8, CH UNIT TYPE - 244 SKIP, 8 KIF, 8 KIF, 8 MPVOLER, 245, *, 30 MPVOLESR, 245, *, 6, CH MPRACK_245, *, 8, CH MPUNIT_245, *, 8, CH MPUNIT_245, *, 8, CH MPUNIT_245, *, 8, CH MPVOLESR, 246, *, 6, CH MPVOLESR, 246, *, 6, CH MPRACK_246, *, 6, CH MPUNIT_246, *, 8, CH MPUNIT_246, *, 8, CH MPUNIT_248, *, 8, CH MPVOLESR_246, *, 6, CH MPRACK_248, *, 6, CH MPRACK_248, *, 6, CH MPRACK_248, *, 6, CH MPRACK_247, *, 6, CH MPRACK_248, *, 6, CH MPRACK_249, *, 6, CH MPRACK_250, *, 6, CH MPRACK_250, *, 6, CH MPRACK_251, *, 6, CH MPRACK_252, *,	MPRACK_244,*,6,CH	RACK NUMBER - 244	81915600
SKIP, 8 MYOLDER 245, *, 32 MYOLSER 245, *, 6, CH MPRACK 245, *, 4, CH MPUNIT 245, *, 8, CH MIT TYPE - 245 S2200400 SKIP, 8 MYOLDER 246, *, 3, CH MPVOLSER 246, *, 6, CH MPRACK 246, *, 4, CH MPUNIT 245, *, 8, CH MPUNIT 245, *, 8, CH MPOLISER 247, *, 4, CH MPUNIT 246, *, 8, CH MPOLISER 247, *, 4, CH MPRACK 247, *, 6, CH MPRACK 247, *, 4, CH MPRACK 247, *, 6, CH MPRACK 248, *, 6, CH MPRACK 249, *, 6, CH MPRACK 250, *, 6, CH MPRACK 251, *, 6, CH MPRACK 251, *, 6, CH MPRACK 252, *, 6		FEATURE CODE - 244	81951200
MPVOLENT 245,*,32 MPVOLESR 245,*,6,CH MPRACK, 245,*,6,CH MPRACK 245,*,6,CH MPFAT 245,*,4,CH MPFAT 245,*,4,CH MPFAT 245,*,4,CH MPFAT 245,*,4,CH MPRACK 245,*,6,CH MPUNIT 245,*,8,CH MPUNIT 246,*,32 MPVOLESR 246,*,6,CH MPRACK 246,*,6,CH MPRACK 246,*,6,CH MPRACK 246,*,4,CH MPRACK 246,*,4,CH MPRACK 246,*,4,CH MPRACK 247,*,4,CH MPRACK 247,*,4,CH MPRACK 247,*,4,CH MPRACK 247,*,4,CH MPRACK 248,*,6,CH MPRACK 249,*,6,CH MPRACK 250,*,6,CH MPRACK 250,*,6,CH MPRACK 250,*,6,CH MPRACK 250,*,6,CH MPRACK 250,*,6,CH MPRACK 251,*,6,CH MPRACK 251,*,6,CH MPRACK 251,*,6,CH MPRACK 251,*,6,CH MPRACK 252,*,32 MPVOLENT 252,*,32 MPVOLENT 252,*,32 MPVOLENT 252,*,32 MPVOLENT 252,*,4,CH MPRACK 252,*,6,CH MPRACK 252,	MPUNIT_244,*,8,CH	UNIT TYPE - 244	81986800
MPVOLSER 245, *, 6, CH MOLUME SERIAL - 245 82093600 MPFRACK (245, *, 4, CH MPENTI 245, *, 4, CH MPENTI 245, *, 8, CH MPENTI 246, *, 32 MPVOLENT 246, *, 32 MPVOLENT 246, *, 4, CH MPENTI 246, *, 4, CH MPENTI 246, *, 4, CH MPENTI 246, *, 8, CH MPENTI 247, *, 32 MPVOLENT 247, *, 4, CH FEATURE CODE - 247 82520800 MPVOLENT 247, *, 4, CH FEATURE CODE - 247 82520800 MPUNIT 247, *, 8, CH MPENTI 248, *, 32 MPVOLENT 248, *, 32 MPVOLENT 248, *, 6, CH MPENTI 248, *, 8, CH MPENTI 249, *, 8, CH MPENTI 250, *, 8, CH MPENTI 250, *, 8, CH MPENTI 251, *, 3, CH MPENTI 252, *, 4, CH MPENTI 252, *, 6, CH MPENTI	SKIP,8	RESERVED	82022400
MPRACK_245,*,6,CH RACK NUMBER - 245 MPFEAT_245,*,4,CH FEATURE CODE - 245 MPUNIT_245,*,8,CH UNIT TYPE - 245 MPVOLENT_246,*,32 VOLUME ENTRY - 246 MPVOLSER_246,=,6,CH VOLUME SERIAL - 246 MPRACK_246,*,6,CH RACK NUMBER - 246 MPFEAT_246,*,4,CH FEATURE CODE - 246 MPVOLENT_246,*,3CH UNIT TYPE - 246 MPVOLENT_246,*,3CH UNIT TYPE - 246 MPVOLENT_247,*,3CH UNIT TYPE - 246 MPVOLENT_247,*,4,CH FEATURE CODE - 247 MPVOLSER_247,=,6,CH VOLUME SERIAL - 247 MPVOLENT_247,*,4,CH FEATURE CODE - 247 MPFEAT_247,*,4,CH FEATURE CODE - 247 MPOUSER_248,*,32 MPVOLENT_248,*,3CH UNIT TYPE - 248 MPVOLENT_249,*,3CH WOLUME SERIAL - 249 MPVOLENT_259,*,3CH WOLUME SERIAL - 250 MPVOLENT_251,*,3CH WOLUME SERIAL - 251 MPVOLENT_251,*,3CH WOLUME SERIAL - 252 MPVOLENT_252,*,	MPVOLENT_245,*,32	VOLUME ENTRY - 245	82058000
MPFEAT 245,*,4,CH FEATURE CODE - 245 82164800 MPUNTT 245,*,8,CH UNIT TYPE - 245 82200400 SKIP,8 RESERVED 82230000 MPVOLENT 246,*,32 VOLUME SERIAL - 246 82307200 MPVOLSER 246,=,6,CH VOLUWE SERIAL - 246 82307200 MPRACK 246,*,6,CH RACK NUMBER - 246 82342800 MPFEAT 246,*,4,CH FEATURE CODE - 246 82378400 MPUNTT 246,*,8,CH UNIT TYPE - 246 82378400 MPUNTT 246,*,8,CH UNIT TYPE - 247 82485200 MPVOLENT 247,*,32 VOLUME ENTRY - 247 82520800 MPVOLER 247,*,6,CH RACK NUMBER - 247 82520800 MPVOLER 247,*,6,CH RACK NUMBER - 247 82520800 MPUNT 247,*,8,CH UNIT TYPE - 247 82520000 MPUNT 247,*,8,CH UNIT TYPE - 247 82663200 MPUNT 247,*,8,CH UNIT TYPE - 248 82695600 MPVOLENT 248,*,32 VOLUME ENTRY - 248 82734400 MPVOLENT 248,*,32 VOLUME ENTRY - 248 82734400 MPVOLER 248,*,6,CH RACK NUMBER - 248 82734400 MPVOLER 248,*,6,CH RACK NUMBER - 248 82734400 MPVOLER 248,*,6,CH RACK NUMBER - 248 82734400 MPVOLER 249,*,6,CH RACK NUMBER - 248 82805600 MPVOLENT 249,*,32 VOLUME ENTRY - 249 82912400 MPVOLENT 249,*,32 VOLUME ENTRY - 249 82912400 MPVOLENT 249,*,32 VOLUME ENTRY - 249 82948000 MPRACK 249,*,6,CH RACK NUMBER - 249 82948000 MPRACK 249,*,6,CH RACK NUMBER - 249 82948000 MPRACK 251,*,6,CH RACK NUMBER - 249 83019200 MPVOLENT 249,*,32 VOLUME ENTRY - 250 8316600 MPVOLENT 250,*,32 VOLUME ENTRY - 250 8316600 MPVOLENT 250,*,32 VOLUME ENTRY - 250 8316600 MPVOLENT 250,*,4,CH RACK NUMBER - 250 8316600 MPVOLENT 251,*,4,CH RACK NUMBER - 250 8316600 MPVOLENT 251,*,4,CH RACK NUMBER - 250 8316600 MPVOLENT 251,*,4,CH RACK NUMBER - 251 8330000 MPVOLENT 251,*,6,CH RACK NUMBER - 251 8330000 MPVOLENT 251,*,6,CH RACK NUMBER - 251 8340000 MPVOLENT 251,*,6,CH RACK NUMBER - 251 8340000 MPVOLENT 251,*,6,CH RACK NUMBER - 251 8356200 MPVOLENT 251,*,6,CH RACK NUMBER - 251 8356200 MPVOLENT 251,*,6,CH RACK NUMBER - 251 8366400 MPVOLENT 251,*,6,CH RACK NUMBER - 251 83600000 MPVOLENT 251,*,6,CH RACK NUMBER - 251 8356200 MPVOLENT 251,*,6,CH RACK NUMBER - 252 83568800 MPVOLENT 252,*,4,CH FEATURE CODE - 252 83568800 MPVOLENT 252,*,4,CH FEATURE CODE - 252 835680000000000000000000		VOLUME SERIAL - 245	82093600
MPUNIT 245,*,8,CH UNIT TYPE - 245 SKIP,8 MPVOLENT 246,*,32 VOLUME ENTRY - 246 MPPONISER 246,*,6,CH RACK NUMBER - 246 MPPONISER 246,*,6,CH RACK NUMBER - 246 MPEAT 246,*,4,CH FEATURE CODE - 246 MPEAT 246,*,4,CH FEATURE CODE - 247 MPUNIT 246,*,8,CH WINT TYPE - 247 SKIP,8 MPVOLENT 247,*,32 MPVOLENT 247,*,32 MPVOLENT 247,*,4,CH FEATURE CODE - 247 MPEAT 247,*,4,CH FEATURE CODE - 247 MPEAT 247,*,4,CH FEATURE CODE - 247 MPINIT 247,*,4,CH FEATURE CODE - 247 MPINIT 247,*,4,CH FEATURE CODE - 247 MPINIT 247,*,4,CH FEATURE CODE - 247 SKIP,8 MPOLENT 248,*,32 MPVOLENT 248,*,32 MPVOLENT 248,*,32 MPVOLENT 248,*,32 MPVOLENT 248,*,4,CH FEATURE CODE - 248 MPEAT 248,*,4,CH FEATURE CODE - 248 MPEAT 248,*,4,CH FEATURE CODE - 248 MPONIT 249,*,32 MPVOLENT 249,*,32 MPVOLENT 249,*,32 MPVOLENT 249,*,32 MPVOLENT 249,*,32 MPVOLENT 250,*,32 MPVOLENT 250,*,32 MPVOLENT 250,*,32 MPVOLENT 250,*,32 MPVOLENT 250,*,4,CH FEATURE CODE - 249 MPEAT 250,*,4,CH FEATURE CODE - 249 MPEAT 250,*,4,CH FEATURE CODE - 249 MPONIT 249,*,3,CH UNIT TYPE - 250 MPONIT 250,*,3,CH UNIT TYPE - 250 MPONIT 250,*,4,CH FEATURE CODE - 250 MPONIT 251,*,3,CH UNIT TYPE - 251 MPONIT 251,*,4,CH MACK NUMBER - 250 MPONIT 251,*,4,CH MACK NUMBER - 251 MPONIT 251,*,4,CH MACK NUMBER - 252 MPONIT 251,*,4,CH MACK NUMBER - 252 MPONIT 252,*,4,CH MACK NUMBER - 252 MPONIT 252,*,4,CH MACK NUMBER - 252 MPONIT 25	MPRACK_245,*,6,CH	RACK NUMBER - 245	82129200
SKIP 8	$MPFEAT_245, \star, 4, CH$	FEATURE CODE - 245	82164800
MPYOLSER 246, +, 6, CH MPRACK 246, +, 4, CH MPRACK 246, +, 4, CH MPRACK 274, +, 4, CH MPRACK 274, +, 32 MPVOLSER 247, +, 32 MPVOLSER 247, -, 6, CH MPRACK 274, -, 6, CH MPRACK 274, -, 4, CH MPRACK 274, -, 6, CH MPRACK 275, -, 6, CH MPRACK 27	MPUNIT_245,*,8,CH	UNIT TYPE - 245	82200400
MPVOLSER 246, =, 6, CH MPRACK 226, *, 6, CH MPRACK 226, *, 6, CH MPEAT 246, *, 4, CH MPUNIT 246, *, 8, CH MPUNIT 246, *, 8, CH MPUNIT 246, *, 8, CH MPUNIT 247, *, 32 MPVOLSER 247, *, 6, CH MPRACK 227, *, 6, CH MPRACK 247, *, 6, CH MPUNIT 248, *, 32 MPVOLSER 248, *, 6, CH MPRACK 228, *, 6, CH MPRACK 228, *, 6, CH MPUNIT 248, *, 4, CH MPRACK 228, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPRACK 229, *, 6, CH MPUNIT 249, *, 32 MPVOLSER 249, *, 6, CH MPRACK 250, *, 6, CH MPRACK 250, *, 6, CH MPRACK 250, *, 6, CH MPRACK 251, *, 6, CH MPRACK 252, *, 6,	SKIP,8	RESERVED	82236000
MPRACK_246,*,6,CH RACK NUMBER - 246 82378400 MPFEAT 246,*,4,CH FEATURE CODE - 246 82378400 MPUNIT_246,*,8,CH UNIT TYPE - 246 82414000 SKIP,8 RESERVED 82449600 MPVOLENT_247,*,32 VOLUME ENTRY - 247 8285200 MPVOLESE, 247,*,6,CH VOLUME SERIAL - 247 82556400 MPPOLET, 248,*,4,CH FEATURE CODE - 247 82556400 MPULIST, 248,*,4,CH FEATURE CODE - 247 82552000 MPULENT 248,*,32 VOLUME ENTRY - 248 82677600 MPVOLENT 248,*,32 VOLUME ENTRY - 248 82698800 MPVOLERT 248,*,5,CH VOLUME SERIAL - 248 82734400 MPFEAT_248,*,6,CH VOLUME SERIAL - 248 8270400 MPFEAT_248,*,5,CH VOLUME SERIAL - 248 82805600 MPVOLENT 249,*,8,CH NUNIT TYPE - 248 8281200 MPVOLENT 249,*,5,CH NCLUME SERIAL - 249 82912400 MPVOLSER 249,*,6,CH RACK NUMBER - 249 82912400 MPFEAT_249,*,6,CH RACK NUMBER - 249 83054800 MPVOLENT 250,*,32 VOLUME SERIAL - 250	MPVOLENT_246,*,32	VOLUME ENTRY - 246	82271600
MPFEAT_246,**,4,CH FEATURE CODE - 246 82378400 MPUNIT_246,**,8,CH UNIT TYPE - 246 SKIP,8 RESERVED 82449600 MPVOLEN_247,*,32 VOLUME ENTRY - 247 82485200 MPVOLSER_247,=,6,CH RACK NUMBER - 247 82550800 MPRACK_247,*,4,CH FEATURE CODE - 247 82592000 MPREAT_247,*,4,CH FEATURE CODE - 247 82592000 MPUNIT_247,*,8,CH UNIT TYPE - 247 82627600 SKIP,8 RESERVED 82627600 MPVOLENT_248,*,32 VOLUME ENTRY - 248 82698800 MPVOLENT_248,*,32 VOLUME ENTRY - 248 82698800 MPVOLENT_248,*,4,CH FEATURE CODE - 248 82774000 MPFEAT_248,*,4,CH FEATURE CODE - 248 82805600 MPUNIT_248,*,8,CH UNIT TYPE - 248 82805600 MPUNIT_249,*,3,CH UNIT TYPE - 249 82912400 MPVOLENT_249,*,6,CH RACK NUMBER - 249 82912400 MPVOLENT_249,*,6,CH RACK NUMBER - 249 82912400 MPFEAT_249,*,4,CH FEATURE CODE - 249 83019200 MPVOLENT_249,*,8,CH UNIT TYPE - 249 83054800 MPVOLENT_249,*,8,CH UNIT TYPE - 249 83054800 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83126000 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83161600 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83161600 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83161600 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83161000 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83161000 MPVOLENT_250,*,4,CH FEATURE CODE - 250 83268400 MPVOLENT_250,*,8,CH UNIT TYPE - 250 83268400 MPVOLENT_250,*,8,CH UNIT TYPE - 250 83268400 MPVOLENT_250,*,8,CH UNIT TYPE - 250 83268400 MPVOLENT_251,*,32 VOLUME ENTRY - 251 8339600 MPVOLENT_251,*,32 VOLUME ENTRY - 252 83588800 MPVOLENT_252,*,32 VOLUME ENTRY - 252 8368000 MPVOLENT_252,*,32 VOLUME ENTRY - 252 8366000 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83660000 MPVO	$MPVOLSER_246,=,6,CH$	VOLUME SERIAL - 246	82307200
MPUNIT_246,*,8,CH UNIT TYPE - 246 82414000 SKIP,8 MPVOLENT_247,*,32 VOLUME ENTRY - 247 82485200 MPVOLSER_247,*,6,CH RACK NUMBER - 247 8250800 MPRACK_247,*,6,CH RACK NUMBER - 247 82556400 MPREAT_247,*,4,CH FEATURE CODE - 247 82592000 MPUNIT_247,*,8,CH UNIT TYPE - 247 82627600 SKIP,8 RESERVED 82663200 MPVOLENT_248,*,32 VOLUME ENTRY - 248 82698800 MPVOLESER_248,*,4,CH FEATURE CODE - 248 82770000 MPRACK_248,*,4,CH FEATURE CODE - 248 82770000 MPFEAT_248,*,4,CH FEATURE CODE - 248 82805600 MPUNIT_1249,*,32 VOLUME ENTRY - 248 82841200 SKIP,8 RESERVED 82876800 MPVOLENT_249,*,32 VOLUME ENTRY - 249 82912400 MPVOLENT_249,*,4,CH RACK NUMBER - 249 82912400 MPFACK_249,*,6,CH RACK NUMBER - 249 8294800 MPFACK_249,*,6,CH RACK NUMBER - 249 8294800 MPFACK_249,*,4,CH FEATURE CODE - 249 83019200 MPFAT_249,*,4,CH FEATURE CODE - 249 83019200 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83126000 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83126000 MPVOLENT_250,*,4,CH FEATURE CODE - 250 83126000 MPVOLENT_250,*,4,CH FEATURE CODE - 250 83126000 MPVOLENT_250,*,4,CH FEATURE CODE - 250 83268400 MPVOLENT_250,*,4,CH FEATURE CODE - 251 83464000 MPREAT_251,*,4,CH FEATURE CODE - 251 83464000 MPVOLERT_251,*,4,CH FEATURE CODE - 251 83482000 MPVOLERT_252,*,5,CH UNIT TYPE - 251 8358300 MPVOLERT_252,*,5,CH UNIT TYPE - 251 83660000 MPVOLERT_252,*,5,CH UNIT TYPE - 252 83660000	MPRACK_246,*,6,CH	RACK NUMBER - 246	82342800
SKIP.8	MPFEAT_246,*,4,CH	FEATURE CODE - 246	82378400
MPVOLENT 247,*,32 VOLUME ENTRY - 247 8252080 MPVOLSER 247,*,6,CH VOLUME SERIAL - 247 82520800 MPRACK 247,*,6,CH RACK NUMBER - 247 82556400 MPFEAT 247,*,4,CH FEATURE CODE - 247 82592000 MPUNIT 247,*,8,CH UNIT TYPE - 247 82663200 MPVOLENT 248,*,32 VOLUME ENTRY - 248 82693200 MPVOLSER 248,*,6,CH RACK NUMBER - 248 82730400 MPFACK 248,*,6,CH RACK NUMBER - 248 8270000 MPUNIT 248,*,8,CH UNIT TYPE - 248 82805600 MPUNIT 248,*,8,CH UNIT TYPE - 248 82805600 MPVOLENT 249,*,32 VOLUME ENTRY - 249 82912400 MPVOLENT 249,*,32 VOLUME ENTRY - 249 82912400 MPVOLENT 249,*,4,CH FATURE CODE - 249 82983600 MPFEAT 249,*,4,CH FEATURE CODE - 249 83019200 MPFEAT 249,*,8,CH UNIT TYPE - 249 83019200 MPROLENT 250,*,32 VOLUME ENTRY - 250 83126000 MPVOLENT 250,*,32 VOLUME ENTRY - 250 83126000 MPVOLENT 250,*,3,CH RACK NUMBER - 250 83126000 MPNOLENT 250,*,4,CH RACK NUMBER - 250 83126000 MPNOLENT 250,*,4,CH RACK NUMBER - 250 83126000 MPUNIT 250,*,8,CH WINIT TYPE - 250 832800 MPVOLENT 251,*,32 VOLUME ENTRY - 251 8339600 MPOULENT 251,*,32 VOLUME ENTRY - 251 8339600 MPVOLENT 251,*,32 VOLUME ENTRY - 251 8339600 MPVOLENT 251,*,32 VOLUME ENTRY - 251 8339600 MPVOLENT 251,*,4,CH FEATURE CODE - 251 8346400 MPFEAT 251,*,4,CH FEATURE CODE - 251 83462000 MPVOLENT 252,*,5,CH WINIT TYPE - 251 83553200 MPVOLENT 252,*,5,CH RACK NUMBER - 252 8368800 MPVOLENT 252,*,5,CH RACK NUMBER - 252 8368800 MPVOLENT 252,*,5,CH WINIT TYPE - 251 8360000 MPFEAT 250,*,6,CH RACK NUMBER - 252 8366000 MPVOLENT 252,*,5,CH WINIT TYPE - 251 8360000 MPFEAT 251,*,6,CH RACK NUMBER - 252 83660000 MPVOLENT 252,*,5,CH WINIT TYPE - 251 83600000 MPVOLENT 252,*,5,CH WINIT TYPE - 251 836000000000000000000000000000000000000	MPUNIT_246,*,8,CH	UNIT TYPE - 246	82414000
MPVOLSER 247, =, 6, CH VOLUME SERIAL - 247 82556400 MPRACK 247, *, 6, CH RACK NUMBER - 247 82556400 MPFEAT 247, *, 4, CH FEATURE CODE - 247 82592000 MPUNIT 247, *, 8, CH UNIT TYPE - 247 82627600 SKIP, 8 RESERVED 82663200 MPVOLENT 248, *, 32 VOLUME ENTRY - 248 8269800 MPVOLESR 248, =, 6, CH RACK NUMBER - 248 82734400 MPRACK 248, *, 6, CH RACK NUMBER - 248 82770000 MPFEAT 248, *, 4, CH FEATURE CODE - 248 82805600 MPUNIT 248, *, 8, CH UNIT TYPE - 248 82805600 MPVOLENT 249, *, 32 VOLUME ENTRY - 249 82912400 MPVOLSER 249, =, 6, CH VOLUME SERIAL - 249 82948000 MPFEAT 249, *, 4, CH FEATURE CODE - 249 82948000 MPFEAT 249, *, 4, CH FEATURE CODE - 249 83019200 MPFEAT 249, *, 4, CH FEATURE CODE - 249 83019200 MPVOLSER 250, *, 3, 2 VOLUME ENTRY - 249 83054800 MPVOLENT 250, *, 3, 2 VOLUME ENTRY - 250 8316000 MPVOLENT 250, *, 3, 2 VOLUME ENTRY - 250 8316000 MPVOLENT 250, *, 3, 2 VOLUME ENTRY - 250 8316000 MPFEAT 250, *, 4, CH RACK NUMBER - 250 8316000 MPFEAT 250, *, 4, CH RACK NUMBER - 250 8316000 MPVOLENT 250, *, 3, CH UNIT TYPE - 250 8316000 MPVOLENT 251, *, 4, CH FEATURE CODE - 250 8323800 MPVOLENT 251, *, 4, CH FEATURE CODE - 250 8323800 MPVOLENT 251, *, 5, CH RACK NUMBER - 251 83304000 MPVOLENT 251, *, 5, CH RACK NUMBER - 251 83304000 MPVOLENT 251, *, 5, CH RACK NUMBER - 251 8336400 MPVOLENT 251, *, 6, CH RACK NUMBER - 251 8336400 MPVOLENT 252, *, 5, CH RACK NUMBER - 251 8336400 MPVOLENT 252, *, 5, CH RACK NUMBER - 251 8336400 MPVOLENT 252, *, 5, CH RACK NUMBER - 251 8336400 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8356300 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8356300 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8356300 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8356300 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8366000 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8366000 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8366000 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 8366000 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 83660000 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 83660000 MPVOLENT 252, *, 5, CH RACK NUMBER - 252 83660000 MPVOLENT 252,	SKIP,8	RESERVED	82449600
MPRACK 247, *,6, CH RACK NUMBER - 247 82592000 MPUNIT_247, *,4, CH FEATURE CODE - 247 82692000 MPUNIT_247, *,8, CH UNIT TYPE - 247 82692000 MPUNIT_248, *,3,2 VOLUME ENTRY - 248 82698800 MPVOLESE 248, *,6, CH RACK NUMBER - 248 82734400 MPRACK 248, *,4, CH RACK NUMBER - 248 82770000 MPFEAT_248, *,4, CH FEATURE CODE - 248 82770000 MPFEAT_248, *,4, CH FEATURE CODE - 248 82841200 SKIP, 8 RESERVED 82876800 MPVOLENT 249, *,3,2 VOLUME ENTRY - 249 82912400 MPVOLSER 249, *,6, CH RACK NUMBER - 249 82948000 MPRACK_249, *,4, CH FEATURE CODE - 249 82983600 MPFEAT_249, *,4, CH RACK NUMBER - 249 82983600 MPFEAT_249, *,4, CH FEATURE CODE - 249 83019200 MPVOLENT_250, *,3,2 VOLUME ENTRY - 250 83161600 MPVOLENT_250, *,6, CH RACK NUMBER - 250 83126000 MPVOLENT_250, *,6, CH RACK NUMBER - 250 83126000 MPVOLENT_250, *,6, CH RACK NUMBER - 250 83161600 MPRACK_250, *,6, CH RACK NUMBER - 250 83123800 MPVOLENT_250, *,8, CH UNIT TYPE - 250 83268400 SKIP, 8 RESERVED 83304000 MPUNIT_249, *,8, CH RACK NUMBER - 250 8323800 MPUNIT_251, *,4, CH FEATURE CODE - 251 83375200 MPVOLENT_251, *,5, CH RACK NUMBER - 251 83346400 MPUNIT_251, *,6, CH RACK NUMBER - 251 83346000 MPVOLENT_251, *,6, CH RACK NUMBER - 251 83346000 MPVOLENT_251, *,6, CH RACK NUMBER - 251 83346000 MPVOLENT_251, *,6, CH RACK NUMBER - 251 8336000 MPVOLENT_251, *,6, CH RACK NUMBER - 251 8336000 MPVOLENT_252, *,3,2 VOLUME ENTRY - 251 83375200 MPVOLENT_252, *,3,2 VOLUME ENTRY - 252 83583200 MPVOLENT_252, *,3,2 VOLUME ENTRY - 252 83583200 MPVOLENT_252, *,3,2 VOLUME ENTRY - 252 83583800 MPVOLENT_252, *,3,2 VOLUME ENTRY - 252 83583800 MPVOLENT_252, *,4, CH FEATURE CODE - 251 83460000 MPVOLENT_252, *,4, CH FEATURE CODE - 252 83660000 MPVOLSER_252, *,6, CH RACK NUMBER - 252 83660000 MPVOLSER_252, *,6, C		VOLUME ENTRY - 247	82485200
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SKIP,8	MPFEAT_247,*,4,CH	FEATURE CODE - 247	82592000
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MPFEAT_248,*,4,CH FEATURE CODE - 248 82805600 MPUNIT_248,*,8,CH UNIT TYPE - 248 82841200 SKIP,8 RESERVED 82876800 MPVOLENT_249,*,32 VOLUME ENTRY - 249 82912400 MPVOLSER_249,=,6,CH VOLUME SERIAL - 249 82983600 MPFEAT_249,*,4,CH FEATURE CODE - 249 83019200 MPFEAT_249,*,4,CH FEATURE CODE - 249 83019200 MPUNIT_249,*,8,CH UNIT TYPE - 249 83090400 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83126000 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83126000 MPVOLSER_250,=,6,CH VOLUME SERIAL - 250 83161600 MPRACK_250,*,4,CH FEATURE CODE - 250 83197200 MPFEAT_250,*,4,CH FEATURE CODE - 250 83232800 MPUNIT_250,*,8,CH UNIT TYPE - 250 83232800 MPUNIT_250,*,8,CH UNIT TYPE - 250 83304000 SKIP,8 RESERVED 83304000 MPVOLENT_251,*,32 VOLUME ENTRY - 251 83339600 MPVOLENT_251,*,4,CH FEATURE CODE - 251 83346400 MPRACK_251,*,4,CH FEATURE CODE - 251 83446400 MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83446400 MPUNIT_252,*,32 VOLUME ENTRY - 252 8358800 MPVOLENT_252,*,6,CH RACK NUMBER - 252 83660000 MPVOLER_252,*,4,CH FEATURE CODE - 252 83660000 MPVOLER_252,*,4,CH FEATURE CODE - 252 83660000 MPPRACK_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83660000		VOLUME SERIAL - 248	
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SKIP,8		FEATURE CODE - 248	
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MPVOLSĒR_249,=,6,CH VOLUME SERIAL - 249 82948000 MPRACK_249,*,6,CH RACK NUMBER - 249 82983600 MPFEAT_249,*,4,CH FEATURE CODE - 249 83019200 MPUNIT_249,*,8,CH UNIT TYPE - 249 83054800 SKIP,8 RESERVED 83090400 MPVOLENT_250,*,32 VOLUME ENTRY - 250 83126000 MPVOLSĒR_250,=,6,CH VOLUME SERIAL - 250 83197200 MPRACK_250,*,6,CH RACK NUMBER - 250 83232800 MPUNIT_250,*,4,CH FEATURE CODE - 250 83232800 MPUNIT_250,*,8,CH UNIT TYPE - 250 83268400 SKIP,8 RESERVED 83304000 MPVOLENT_251,*,32 VOLUME ENTRY - 251 8339600 MPVOLER_251,*,6,CH RACK NUMBER - 251 83375200 MPRACK_251,*,6,CH RACK NUMBER - 251 83410800 MPFEAT_251,*,8,CH UNIT TYPE - 251 83440400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLENT_252,*,6,CH RACK NUMBER - 252 83660000 <	•		
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MPFEAT_250,*,4,CH FEATURE CODE - 250 83232800 MPUNIT_250,*,8,CH UNIT TYPE - 250 83268400 SKIP,8 RESERVED 83304000 MPVOLENT_251,*,32 VOLUME ENTRY - 251 83375200 MPVOLSER_251,=,6,CH VOLUME SERIAL - 251 83410800 MPFACK_251,*,6,CH RACK NUMBER - 251 83410800 MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83583200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83660000 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPUNIT_250,*,8,CH UNIT TYPE - 250 83268400 SKIP,8 RESERVED 83304000 MPVOLENT_251,*,32 VOLUME ENTRY - 251 83375200 MPVOLSER_251,=,6,CH VOLUMESERIAL - 251 83410800 MPFEAK_251,*,6,CH RACK NUMBER - 251 8340800 MPFEAK_251,*,4,CH FEATURE CODE - 251 83482000 MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83660000 MPFEAK_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
SKIP,8 RESERVED 83304000 MPVOLENT_251,*,32 VOLUME ENTRY - 251 83339600 MPVOLSER_251,=,6,CH VOLUME SERIAL - 251 83375200 MPRACK_251,*,6,CH RACK NUMBER - 251 83410800 MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,*,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPVOLENT_251,*,32 VOLUME ENTRY - 251 83339600 MPVOLSER_251,=,6,CH VOLUME SERIAL - 251 83375200 MPRACK_251,*,6,CH RACK NUMBER - 251 83410800 MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPVOLSER_251,=,6,CH VOLUME SERIAL - 251 83375200 MPRACK_251,*,6,CH RACK NUMBER - 251 83410800 MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPRACK_251,*,6,CH RACK NUMBER - 251 83410800 MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPFEAT_251,*,4,CH FEATURE CODE - 251 83446400 MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPUNIT_251,*,8,CH UNIT TYPE - 251 83482000 SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
SKIP,8 RESERVED 83517600 MPVOLENT_252,*,32 VOLUME ENTRY - 252 83553200 MPVOLSER_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPVOLENT_252,*,32			
MPVOLSĒR_252,=,6,CH VOLUME SERIAL - 252 83588800 MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPRACK_252,*,6,CH RACK NUMBER - 252 83624400 MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPFEAT_252,*,4,CH FEATURE CODE - 252 83660000 MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600			
MPUNIT_252,*,8,CH UNIT TYPE - 252 83695600	I'I'KAUK_252,*,6,UH		
SILI , U RESERVEU 03/31200			
	JIXII , U	NEGERVED	03/31200

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MPVOLENT_253,*,32
                       VOLUME ENTRY - 253
                                                          83766800
                       VOLUME SERIAL - 253
    MPVOLSER_253, = ,6, CH
                                                          83802400
                       RACK NUMBER - 253
FEATURE CODE - 253
    MPRACK_253,*,6,CH
MPFEAT_253,*,4,CH
                                                          83838000
                                                          83873600
                       UNIT TYPE - 253
RESERVED
    MPUNIT_253, *, 8, CH
                                                          83909200
    SKIP,8
                                                          83944800
                       VOLUME ENTRY - 254
VOLUME SERIAL - 254
   MPV0LENT_254,*,32
                                                          83980400
    MPVOLSER_254,=,6,CH
MPRACK_254,*,6,CH
                                                          84016000
                       RACK NUMBER - 254
                                                          84051600
    MPFEAT_254,*,4,CH
MPUNIT_254,*,8,CH
                       FEATURE CODE - 254
                                                          84087200
                       UNIT TYPE - 254
                                                          84122800
    SKIP,8
                       RESERVED
                                                          84158400
   MPVOLENT_255,*,32
MPVOLSER_255,=,6,CH
MPRACK_255,*,6,CH
                       VOLUME ENTRY - 255
VOLUME SERIAL - 255
                                                          84194000
                                                          84229600
                       RACK NUMBER - 255
FEATURE CODE - 255
                                                          84265200
    MPFEAT_255,*,4,CH
                                                          84300800
    MPUNIT_255,*,8,CH
                       UNIT TYPE - 255
                                                          84336400
    SKIP.8
                       RESERVED
                                                          84372000
* END OF PROGRAM PRODUCT INFORMATION
                                                        * 84443200
******************* 84478800
                     END OF MPREC
                                                          84514400
                                                          84550000
POSITION, SMFADREC
                START AFTER EDGSMFAR/IGWSMF
                                                          84585600
******************** 84621200
                                                         * 84656800
MRKEY,=,56 KEY FIELD
MRTYPE,=,1,CH RECORD TYPE
MRTYPEE,'E' EMPTY RACK
MRTYPEF,'F' FREE/SCRATCH RACK
MRTYPEU,'U' IN USE RACK
                                                          84728000
                                                          84763600
                                                          84799200
                                                          84834800
                                                          84870400
 MRITED, C
SKIP,1 RESERVED
MRMEDIA,*,8,CH MEDIA NAME
MRUNIT,=,8,CH UNIT TYPE
MRRACK,*,6,CH RACK NUMBER
RESERVED
                                                          84906000
                                                          84941600
                                                          84977200
                                                          85012800
                                                          85048400
85190800
                                                          85226400
                                                          85262000
                                                          85297600
                                                          85333200
                                                          85368800
                                                          85404400
                                                          85440000
                                                          85475600
                                                          85511200
                                                          85546800
                                                          85582400
                                                          85618000
                                                          85653600
                                                          85689200
                                                          85724800
                                                          85760400
******************* 85796000
* RACK INFORMATION
                                                        * 85831600
MRVOLSER, *, 6, CH ASSIGNED VOLSER OR ZEROS
                                                          85902800
 SKIP.10
                      RESERVED
                                                          85938400
* END OF RACK INFORMATION
                                                        * 86009600
****************** 86045200
                   END OF MRRC
                                                          86080800
******************* 86116400
* END OF RMM MRREC
                                                         * 86152000
******************* 86187600
                                                          86223200
                      START AFTER EDGSMFAR/IGWSMF
POSITION, SMFADREC
                                                          86258800
*******************
                                                          86294400
                                                          86330000
***********************
                                                          86365600
 MSKEY,=,56

MSTYPE,=,1,CH

MSTYPER,'R'

MSTYPES,'S'

MSRMSTID,*,1,CH

MSSTIDD,'D'

MSSTIDL,'L'

MSSTIDL,'L'

MSSTIDE

MSSTIDL,'L'

MSSTIDE

MSSTIDL
                                                          86401200
                                                          86436800
                                                          86472400
                                                          86508000
                                                          86543600
                                                          86579200
   MSSTIDD, D
MSSTIDL, 'L'
MSSTIDR, 'R'
                        LOCAL STORE
                                                          86614800
                         REMOTE STORE
                                                          86650400
```

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MSSTIDU, 'U'
                     USER DEFINED STORE
                                                  86686000
 SKIP,8
               RESERVED
BIN NUMBER
RESERVED
                    RESERVED
                                                  86721600
 MSBINNO, *, 6, CH
                                                  86757200
 SKIP,40
                   RESERVED
                                                  86792800
 SKIP,40 RESERVED 86792800
MSUSTNAM,*,8,CH INSTALLATION DEFINED STORE NAME 86828400
MSUMEDNM,*,8,CH INSTALLATION DEFINED STORE BIN MEDIA NAME 86864000
MSUBINNO,*,6,CH INSTALLATION DEFINED STORE BIN NUMBER 86899600
************************
                                                  86935200
* CONTROL INFORMATION
                                                  86970800
 87006400
*********************
                                                  87042000
                                                  87077600
                                                  87113200
                                                  87148800
                                                  87184400
                                                  87220000
                                                  87255600
                                                  87291200
                                                  87326800
                                                  87362400
                                                  87398000
                                                  87433600
                                                  87469200
                                                  87504800
                                                 87540400
                                                  87576000
                                                  87611600
* 87682800
* STORE INFORMATION
MSVOLSER, *, 6, CH ASSIGNED VOLSER OR ZEROS
SKIP, 10 RESERVED
MSMOVINGINVOL, *, 6, CH MOVING-IN VOLUME
MSMOVINGOUTVOL, *, 6, CH MOVING-OUT VOLUME
MSOLDVOL, *, 6, CH OLD VOLUME
SKIP, 6 RESERVED
                                                  87789600
                                             @SCA 87825200
                                             @SCA 87860800
                                             @SCA 87896400
                                                  87932000
                                             @SCA
87967600
                                                  88003200
**********************
                                                  88038800
MSRCEND,* END OF MSRC
********************
                                                  88110000
* END OF RMM MSREC
                                                  88145600
                                                  88181200
*******************
                                                  88216800
POSITION, SMFADREC START AFTER EDGSMFAR/IGWSMF
                                                  88252400
*******************
                                                  88288000
                                                  88323600
******************
                                                  88359200
88394800
                                                  88430400
                                                  88466000
                                                  88501600
                                                  88537200
                                             @K2C 88572800
                                                  88608400
                                                  88644000
 88679600
*******************
                                                  88715200
                                                  88750800
                                                  88786400
                                                  88822000
                                                  88857600
                                                  88893200
                                                  88928800
                                                  88964400
                                                  89000000
                                                  89035600
                                                 89071200
                                                  89106800
                                                 89142400
                                                  89178000
                                                  89213600
                                              @K2A 89213700
                                                  89249200
                                                  89284800
                                              @K2A 89284850
                                              @K2A 89284900
                                              @K2A 89284950
                                                  89320400
                                                  89356000
* VOLUME INFORMATION
                                              * 89427200
```

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******************** 89462800
  MVEXPDTO, *, 4, PD
                                     EXPIRATION DATE - ORIGINAL
                                                                                             89498400
  MVEXPDT, *, 4, PD
MVRDEN, *, 1, BI
                                     EXPIRATION DATE - YYYYDDD
                                                                                             89534000
                                     COPY OF JFCBDEN
                                                                                             89569600
  MVDEN, *, 1, CH
MVDEN3, '3'
MVDEN4, '4'
MVDEN9, '9'
MVDENC, 'C'
MVDENU, '*'
                                     RECORDING DENSITY
                                                                                             89605200
                                        1600BPI
                                                                                             89640800
                                        6250BPI
                                                                                             89676400
                                        3480
                                                                                             89712000
                                        3480 COMPACTED (IDRC)
                                                                                             89747600
                                        UNDEFINED
                                                                                             89783200
  MVDSNNO, *, 2, BI
                                     NUMBER OF DATASETS ON VOLUME
                                                                                       @LLC 89818800
  MVTUSE, *, 4, FI
                                     TAPE USAGE IN KBYTES
                                                                                             89854400
  MVUSE,*,2,FI
MVSTSTAT,*,1,BI
MVSTSO01,X'01'
                                     VOLUME USE COUNT
                                                                                             89890000
                                     STORE STATUS
                                                                                             89925600
                                        TAPE LIB TO REMOTE STORE
                                                                                             89961200
     MVSTS002, X'02'
                                        REMOTE STORE TO TAPE LIB
                                                                                             89996800
     MVSTS003,X'03'
                                       TAPE LIB TO LOCAL STORE
                                                                                             90032400
    MVSTS004,X'04'
MVSTS005,X'05'
                                       LOCAL STORE TO TAPE LIB
LOCAL STORE TO DISTANT
                                                                                             90068000
                                                                                             90103600
     MVSTS006, X'06'
                                        TAPE LIB TO DISTANT STORE
                                                                                             90139200
     MVSTS007, X'07'
                                        DISTANT STORE TO TAPE LIB
                                                                                             90174800
     MVSTS009, X'09'
                                        STORE LOCATION VALID
                                                                                             90210400
  MVVRSREL,*,1,BI
MVVRFXDI,B'1....'
MVVRFSCI,B'.1....'
                                     VRS RELEASE OPTIONS
                                                                                             90246000
                                        EXPIRY DATE IGNORE
                                                                                             90281600
                                        SCRATCH IMMEDIATE
                                                                                             90317200
  FLAG BITS IN MVVRSREL SHOULD MATCH MKRLSOPT BIT SETTINGS.
                                                                                             90352800
                                    LABEL NUMBER OF 1ST FILE
                                                                                       @LLC 90388400
  MVLABNO1,*,2,BI
  MVTDSI,*,4

MVMEDREC,=,1,BI

MVMRCU,X'00'
                                     TAPE MEDIA TYPE INFORMATION VOL RECORDING FORMAT
                                                                                             90424000
                                                                                             90459600
                                        NON CARTRIDGE
                                                                                             90495200
       MVMRC18, X'01'
                                        18TRACK
                                                                                             90530800
       MVMRC36, X'02'
                                        36TRACK
                                                                                              90566400
       MVMRC128,X'03'
MVMRC256,X'04'
                                        128TRACK
                                                                                             90602000
                                        256TRACK
                                                                                             90637600
       MVMRC384,X'05'
                                        384TRACK
                                                                                             90673200
       MVMEFMT1,X'06'
MVMEFMT2,X'07'
                                                                                             90708800
                                        EFMT1
                                        EFMT2
                                                                                       @SHA 90744400
       MVMEEFMT2,X'08'
                                                                                       @SJA 90780000
                                        EEFMT2
                                                                                       @SKA 90791800
       MVMEFMT3,X'09'
                                        EFMT3
       MVMEEFMT3,X'0A'
                                        EEFMT3
                                                                                       @SKA 90803600
       MVMEFMT4, X'0B'
                                                                                       @SOA 90807600
                                        EFMT4
       MVMEEFMT4,X'0C'
                                        EEFMT4
                                                                                       @SOA 90811600
    MVMEDTY, *, 1, BI
MVMTYU, X'00'
                                     TAPE MEDIA TYPE
                                                                                             90815600
                                        UNKNOWN
                                                                                             90851200
       MVMTYCS,X'01'
                                        CST
                                                                                             90886800
       MVMTYEC,X'02'
MVMTYHP,X'03'
                                        ECCST
                                                                                             90922400
                                        HPCT
                                                                                             90958000
       MVMTYEH,X'04'
                                        EHPCT
                                                                                             90993600
       MVMMED5,X'05'
                                        ETC ENTERPRISE TAPE CARTRIDGE @SGC 91029200
EWTC ENTERPRISE WORM TAP CARTRIDGE @SGA 91064800
       MVMMED6,X'06'
                                       ENTERPRE ECONOMY TAP CARTRIDGE @SHC 91100400
EEWTC ENTERPR ECONOMY WORM TAP CART @SHC 91136000
EXTC ENTERPR EXTENDED TAP CARTRIDG @SHA 91171600
EXWTC ENTERPR EXTENDED WORM TAP CAR @SHA 91207200
       MVMMED7,X'07'
       MVMMED9,X'08'
       MVMMED10,X'0A'
MVMMED11,X'0B'
                                        EATC ENTERPR ADVANCED TAP CARTRIDG @SOA 91216100
                                        EAWTC ENTERPR ADVANCED WORM TAP CAR @SOA 91225000
EAETC ENTERPR ADVANCED ECONOMY TAP C@SOA 91233900
       MVMMED12,X'0C'
       MVMMED13,X'0D'
    MVMEDCMP, *, 1, BI
MVMCMU, X'00'
                                     TAPE COMPACTION
                                                                                              91242800
                                        UNKNOWN
                                                                                             91278400
       MVMCMNC, X'01'
                                        NOT COMPACTED
                                                                                             91314000
       MVMCMC, X'02'
                                        COMPACTED
                                                                                             91349600
    MVMEDATR, *, 1, BI
MVMATN, X'00'
                                     TAPE SPECIAL ATTRIBUTES
                                                                                             91385200
                                       NONE
                                                                                             91420800
       MVMAT18, X'01'
                                        18 TRACK READ ONLY
                                                                                             91456400
  MVSTORID, *, 1, CH

MVSTIDD, 'D'

MVSTIDL, 'L'

MVSTIDR, 'R'

MVSTIDT, 'T'
                                     STORE LOCATION ID
                                                                                             91492000
                                        DISTANT STORE
                                                                                             91527600
                                        LOCAL STORE
                                                                                             91563200
                                        REMOTE STORE
                                                                                             91598800
                                        TAPE LIBRARY
                                                                                             91634400
  MVNSTRID, *, 1, CH
                                     NEW STORE LOCATION
                                                                                             91670000
  MVNLOC, *, 8, CH
MVSTBIN, *, 4, FI
                                     DESIRED LOCATION NAME
                                                                                             91705600
                                     STORE BIN NUMBER
                                                                                             91741200
  MVOBIN, *, 4, FI
                                     OLD BIN NUMBER
                                                                                             91776800
                                     DATE STORED (YYYYDDD)
LAST USED DEVICE
  MVSTDATE, *, 4, PD
                                                                                             91812400
  MVLUDEV,*,4,CH
MVLONLOC,*,8,CH
                                                                                             91848000
                                     LOAN LOCATION
                                                                                             91883600
  MVOLNLOC, *, 8, CH
                                     OLD LOAN LOCATION
                                                                                             91919200
                                     DATE VOLUME LAST READ (YYYYDDD)
DATE VOLUME LAST WRITTEN
  MVLRDDAT, *, 4, PD
                                                                                             91954800
                                                                                             91990400
  MVLWTDAT, *, 4, PD
                                     ASSIGNED DATE AND TIME
ASSIGNED DATE (YYYYDDD)
ASSIGNED TIME (HHMMSST)
  MVASDATM, *, 8
                                                                                             92026000
     MVASDATE, =, 4, PD
                                                                                             92061600
     MVASTIME, *, 4, PD
                                                                                             92097200
```

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92132800
                                                                                                         92168400
                                                                                                         92204000
                                                                                                         92239600
                                                                                                         92275200
                                                                                                         92310800
                                            SCRATCH VOLUME HAS NEVER BEEN INITIALISED92346400
SCRATCH VOLUME WITH INIT ACTION PENDING 92382000
SCRATCH VOLUME WAITING TO ENTER ATL 92417600
                                           ABEND IN PROCESS WHEN A DATA SET CLOSED 92453200
ABEND PROBABLY IN O/C/EOV 92488800
                                                                                                         92524400
                                                                                                         92560000
                                                                                                         92595600
92666800
 92702400
********************
                                                                                                         92738000
                                                                                                         92773600
                                            VOLUME PENDING RELEASE
                                                                                                         92809200
                                           VITAL RECORD - DO NOT RELEASE
USER TAPE (ASSIGNED BY LIB)
                                                                                                         92844800
                                                                                                         92880400
                                            TAPE IS ON LOAN
TAPE OPENED AND NOT YET CLOSED
VOLUME IS SCRATCH
                                                                                                         92916000
                                                                                                         92951600
                                                                                                         92987200
                                          VOLUME RECORDED BY O/C/EOV
STV RECORDED BY EXPORT
FLAGS 'B'
                                                                                                         93022800
                                                                                                         93058400
                                                                                                  @K2C 93094000
                                             DEFAULT RETENTION PERIOD USED
                                                                                                         93129600
                                             PROGRAM PRODUCT TAPE
                                                                                                         93165200
                                                                                                         93200800
                                                                                                         93236400
                                            LABEL TYPE IS SL
TAPE LAST WRITTEN USING BLP
                                                                                                         93272000
                                                                                                         93307600
                                         SL OR AL TAPE HAS USER LABELS
FLAGS 'C' - RELEASE ACTIONS
                                                                                                         93343200
  MVULTAPE,B'....1'
MVFLGC,*,1,BI
MVRETSCR,B'1....'
MVRELACT,B'.1111111'
MVREPREL,B'.1...'
MVREINIT,B'.1...'
MVDEGAUS,B'..1...'
MVROWNER,B'...1...'
MVNOWNER,B'...1...'
MVFIGD * 1 BT
                                                                                                         93378800
                                             RETURN TO SCRATCH POOL - DEFAULT
                                                                                                         93414400
                                             RELEASE ACTIONS
REPLACE TAPE ON RELEASE
                                                                                                         93450000
                                                                                                         93485600
                                             REINITIALIZE
                                                                                                         93521200
                                             DEGAUS/SECURITY ERASE
RETURN TO OWNER
                                                                                                         93556800
                                                                                                         93592400
 MVNOWNER,B'...'

MVFLGD,*,1,BI

MVOREAD,B'1...'

MVOUPD,B'.1...'

MVPROTR,B'..1..'

MVPROTR,B'..1..'

MVPROTU,B'..1..'

MVPROSS,B'..1.'

MVNODSNR,B'...1.'

MVNODSNR,B'...1'

MVFLGE,*,1,BI

MVRELACT,B'.1111111'

MVREPREL,B'.1...'

MVREINIT,B'.1...'

MVREINIT,B'.1...'

MVROWNER,B'...1..'

MVNOWNER,B'...1..'

MVNOWNER,B'...1..'

MVNOWNER,B'...1..'

MVNOWNER,B'...1..'

MVNOWNER,B'...1..'

MVNOWNER,B'...1..'

MVLTYP,*,1,BI

MVALVERS,*,2,CH

MVALVERS,*,2,CH

MVALVERS,*,1,FI

MVALNOV,0
                                         NOTIFY OWNER
FLAGS 'D' - ACCESS
OWNER MAY READ VOLUME
                                                                                                         93628000
                                                                                                         93663600
                                                                                                         93699200
                                             OWNER MAY UPDATE VOLUME
OWNER MAY ALTER VOLUME
READ-ONLY PROTECTION
                                                                                                         93734800
                                                                                                         93770400
                                                                                                         93806000
                                             UPDATE PROTECTION
                                                                                                         93841600
                                             MAY BE USED ON MVS SYSTEMS
MAY BE USED ON VM SYSTEMS
                                                                                                         93877200
                                                                                                         93912800
                                         ONLY 1ST TAPE DS RECORDED
FLAGS 'E' - ACTIONS PENDING
RETURN TO SCRATCH POOL - DEFAULT
                                                                                                         93948400
                                                                                                         93984000
                                                                                                         94019600
                                             RELEASE ACTIONS
                                                                                                         94055200
                                             REPLACE TAPE ON RELEASE
                                                                                                         94090800
                                                                                                         94126400
                                             REINITIALIZE
                                             DEGAUS/SECURITY ERASE
                                                                                                         94162000
                                            RETURN TO OWNER
NOTIFY OWNER
                                                                                                         94197600
                                                                                                         94233200
                                          COPY OF JFCBLTYP
ANSI LABEL VERSION
                                                                                                         94268800
                                                                                                         94304400
                                          CURRENT LABEL VERSION
                                                                                                         94340000
                                          REQUIRED LABEL VERSION
                                                                                                         94375600
        MVALNOV, 0
                                          No version specified
                                                                                                 @K2A 94375700
        MVALVE1,1
                                          Label version 1 specified
                                                                                                 @K2A 94375800
                                                                                                  @K2A 94375900
        MVALVE3,3
                                          Label version 3 specified
        MVALVE4,4
                                          Label version 4 specified
                                                                                                  @K2A 94376000
  MVMEDIA, *, 8, CH
                                          INSTALLATIONS MEDIA NAME
                                                                                                         94411200
     MVUNIT,=,8,CH
                                          UNIT TYPE
                                                                                                         94446800
                                          RACK NUMBER
  MVRACK, *, 6, CH
                                                                                                         94482400
                                          PREVIOUS VOLSER IF MULTI-VOL
NEXT VOLSER IF MULTI-VOL
  MVPVOL, *, 6, CH
                                                                                                         94518000
  MVNVOL, *, 6, CH
                                                                                                         94553600
  MVUCBTYP,*,4,BI
MVERRCNT,*,8
MVTRERR,=,2,FI
                                          COPY OF UCBTYP FIELD FROM UCB
                                                                                                         94589200
                                          ERROR COUNTS
                                                                                                         94624800
                                          TEMPORARY READ ERRORS
TEMPORARY WRITE ERRORS
                                                                                                         94660400
     MVTWERR, *, 2, FI
                                                                                                         94696000
                                          PERMANENT READ ERRORS
PERMANENT WRITE ERRORS
     MVPRERR, *, 2, FI
                                                                                                         94731600
     MVPWERR, *, 2, FI
                                                                                                         94767200
                                          BLOCKID RETURNED BY OCE EXIT
PROGRAM PRODUCT DATA
                                                                                                 @K2C 94802800
  MVBLKID, *, 4, CH
  MVPPDATA, *, 18
                                                                                                         94838400
                                          PROGRAM PRODUCT NUMBER
     MVPPNUM,=,8,CH
                                                                                                         94874000
```

```
VERSION/RELEASE/MOD NUMBER
      MVVER, *, 6, CH
                                                                                                               94909600
      MVFEAT, *, 4, CH
                                            FEATURE CODE
                                                                                                               94945200
   MVTRTCH,*,1,BI
MVTCOMP,X'08'
                                            FROM JFCTRTCH - IDRC SUPPORT
                                                                                                               94980800
                                            DSN USED 3480 IDRC
                                                                                                               95016400
      MVTNCOMP,X'04'
                                            NO COMPACTION
OLD PREVIOUS VOLUME
                                                                                                               95052000
                                                                                                               95087600
   MVOPVOL,*,6,CH
   MVTOKEN, *, 8, CH
                                            RESERVED FOR O/C/EOV
                                                                                                               95123200
   MVLOCFLG,*,1,BI FLAG BYTE FOR LIBRARY SUPPORT INDICATES VOLUME IN TRANSIT
                                                                                                               95158800
                                                                                                               95194400
                                                                                                               95230000
                                                    WHEN NOT SET, VOLUME IS IN LOCATION
      MVMVMODE, B'.1....'
                                               INDICATES MANUALMOVE
                                                                                                               95265600
                                                   WHEN NOT SET, INDICATES AUTOMOVE
                                                                                                               95301200
      MVEXTBINAPPLIED,B'..1....' EXTENDED BIN APPLIED MVCOPEXP,B'...1....' VOLUME WAS SUBJECT TO
                                                                                                       @SCA 95336800
                                              VOLUME WAS SUBJECT TO
COPY EXPORT PROCESSING
SHELF LOCATION
                                                                                                       @K2A 95336900
                                                                                                       @K2A 95337000
  MVLTSHL,B'...0000'
MVLTSTG,B'...0001'
MVLTMAN,B'...0010'
MVLTAUT,B'...0011'
MVLTSTB,B'...0100'
MVLTSNB,B'...0101'
MVTYPFLG,*,1,BI
MVNTSHL,B'0000...'
MVNTSTG,B'0001...'
MVNTMAN,B'0010...'
MVNTAUT,B'0001...'
                                                                                                               95372400
                                                STORAGE LOCATION
                                                                                                               95408000
                                               MANUAL LIBRARY
AUTOMATIC LIBRARY
                                                                                                               95443600
                                                                                                               95479200
                                                STORE WITH BINS
                                                                                                               95514800
                                                STORE WITHOUT BINS
                                                                                                               95550400
                                            FLAGS FOR LOCATION TYPE INFORMATION
                                                                                                               95586000
                                               SHELF LOCATION
                                                                                                               95621600
                                                STORAGE LOCATION
                                                                                                               95657200
  MVNTMAN, B'0010...'

MVNTAUT, B'0011...'

MVNTSTB, B'0100...'

MVNTSNB, B'0101...'

MVDTSHL, B'...0000'

MVDTSTG, B'...0011'

MVDTMAN, B'...0011'

MVDTAUT, B'...0011'

MVDTSNB, B'...0101'

MVTYP2FLG, *, 1, BI

MVHTSHL, B'0000...'

MVHTSHB, B'0001...'

MVHTSHB, B'0001...'

MVHTSHB, B'0001...'

MVHTSHB, B'0010...'

MVHTSTB, B'0101...'

MVHTSTB, B'0101...'

MVHTSTB, B'0101...'

MVOTSHL, B'...0010'

MVOTSHL, B'...0010'

MVOTSHL, B'...0011'

MVOTSHB, B'...0010'

MVOTSHB, B'...0010'

MVOTSHB, B'...0010'

MVOTSHB, B'...0010'

MVOTSHB, B'...0010'

MVOTSHB, B'...0010'

MVOTSHB, B'...0101'
                                               MANUAL LIBRARY
                                                                                                               95692800
                                                AUTOMATIC LIBRARY
                                                                                                               95728400
                                                STORE WITH BINS
                                                                                                               95764000
                                               STORE WITHOUT BINS
SHELF LOCATION
                                                                                                               95799600
                                                                                                               95835200
                                                STORAGE LOCATION
                                                                                                               95870800
                                                MANUAL LIBRARY
                                                                                                               95906400
                                                AUTOMATIC LIBRARY
                                                                                                               95942000
                                               STORE WITH BINS
STORE WITHOUT BINS
                                                                                                               95977600
                                                                                                               96013200
                                            MORE FLAGS FOR TYPES
                                                                                                               96048800
                                               SHELF LOCATION
                                                                                                               96084400
                                                STORAGE LOCATION
                                                                                                               96120000
                                               MANUAL LIBRARY
                                                                                                               96155600
                                                AUTOMATIC LIBRARY
                                                                                                               96191200
                                               STORE WITH BINS
STORE WITHOUT BINS
SHELF LOCATION
                                                                                                               96226800
                                                                                                               96262400
                                                                                                       @SCA 96298000
                                                STORAGE LOCATION
                                                                                                       @SCA 96333600
                                                MANUAL LIBRARY
                                                                                                       @SCA 96369200
                                                AUTOMATIC LIBRARY
                                                                                                       @SCA 96404800
                                               STORE WITH BINS
STORE WITHOUT BINS
                                                                                                       @SCA 96440400
                                                                                                       @SCA 96476000
   MVRQPRTY,*,2,FI
MVCAPACITY,*,4,FI
                                            REQ.LOCATION PRIORITY
                                                                                                               96511600
                                            VOLUME CAPACITY IN MBYTES
                                                                                                               96547200
   MVHLOC, *, 8, CH
                                            HOME LOCATION NAME
                                                                                                               96582800
   MVSGNAME, *, 8, CH
                                            STORAGE GROUP NAME
                                                                                                               96618400
                                            LOCATION NAME
   MVLOC, *, 8, CH
                                                                                                               96654000
   MVDEST, *,8,CH
MVOLOC, *,8,CH
                                            DESTINATION NAME
                                                                                                               96689600
                                            PREVIOUS LOCATION NAME
                                                                                                               96725200
   MVUSBIN, *, 6, CH
                                            SHELF MANAGED STORE BIN NO.
                                                                                                               96760800
   MVUBMDN, *, 8, CH
                                            BIN MEDIA NAME
                                                                                                               96796400
                                            SHELF MANAGED STORE OLD BIN
                                                                                                               96832000
   MVUSOBIN, *, 6, CH
   MVUOBMDN,*,8,CH
MVRETDAT,*,4,PD
MVOLDVOLSER,*,6,CH
                                            OLD BIN MEDIA NAME
                                                                                                               96867600
                                            RETENTION DATE
                                                                                                               96903200
                                            OLD VOLSER IF RENAMING VOLSER
                                                                                                       @LSC 96938800
                                            OLD RACK IF RENAMING VOLSER
VOLUME LAST CHANGE TOKEN
   MVOLDRACK, *, 6, CH
                                                                                                       @LSC 96974400
   MVLCTOKN,*,8,CH

MVVOLTYPE,*,1,FI

MVVOLTYPE_PHYSICAL,0

MVVOLTYPE_LOGICAL,1

MVVOLTYPE_STACKED,2
                                                                                                               97010000
                                            VOLUME TYPE
                                                                                                               97045600
                                            VOLUME TYPE PHYSICAL
VOLUME TYPE LOGICAL
VOLUME TYPE STACKED
FLAGS 'F'
                                                                                                               97081200
                                                                                                               97116800
                                                                                                               97152400
  MVVLITFE_STACKED,2

MVFLGF,*,1,BI

MVRBYSET,B'1.....'

MVWORM,B'.1....'

MVHOLD,B'.1....'

MVF_KBTRV,B'...1...'

MVWHILECATUX,B'...1...'

MVWHILECATUX,B'...1...'

MVWHILECATUX,B'...1...'

MVWHILECATUX,B'...1...'

WWHILECATUX,B'...1...'

WhileCatellX and Catalogeyes
                                                                                                               97188000
                                                                                                      @07C 97214700
                                                                                                               97241400
                                                                                                      @07C
                                               WILL NOT BE SET PENDING RELEASE
MSNS KBTRV USED FOR PHYS_SIZE
                                                                                                      A000
                                                                                                               97254700
                                                                                                               97261400
                                                                                                      @SOA
                                                                                                      @M2A
                                                                                                               97261450
                                                 WhileCat=UX and Catalog=yes
                                                                                                      @M2A
                                                                                                               97261500
      MVEDM,B'....1.' EDM-managed volume
MVIRMMUSE,B'....1' MAY BE USED ON IRMM SYSTEMS
                                                                                                      @M7A
                                                                                                               97261550
                                                                                                               97268100
                                                                                                      @07A
                                                                                                               97294800
***********************
* LEVEL 1 FIXED LENGTH SECTION (62 BYTES)
                                                                                                               97330400
97366000
* MVLEV1SC,*,62 LEVEL 1 SECTION

MVDCRSID,*,8,CH 1ST DATA SET CREATE SYSID

MVCONTAINER,*,16,CH CONTAINER

MVCONTAINER_STV,=,6,CH STACKED VOLUME CONTAINER
                                                                                                               97401600
                                                                                                               97437200
                                                                                                               97472800
                                                                                                      @08A 97496500
```

```
@08C 97520200
      SKIP, 10
                              RESERVED
    MVOLD_CONTAINER, *, 16, CH OLD CONTOINER
                                                                            97544000
    MVEXPTOKEN, *, 8, CH
                              EXPORT TOKEN
                                                                            97579600
                              Datasets Kept by Catalog
                                                                     @M2A
                                                                            97579700
    MVDSKeptByCat,*,2,FI
   SKIP,7
                                                                           97615200
                              RESERVED
                                                                     @M2C
   MVLAST_POSN,*,1,FI
                              LAST FILE END MEDIA POSITION
                                                                            97650800
97686400
                                                                            97722000
* LEVEL 2 FIXED LENGTH SECTION (64 BYTES)
                                                                            97757600
***********************
                                                                            97793200
                              DESTINATION BIN NUMBER
    MVDESTBIN, *, 6, CH
                                                                     @SCA
                                                                            97828800
                              DESTINATION BIN MEDIANAME
    MVDESTBINMEDIA, *, 8, CH
                                                                     @SCA
                                                                            97864400
                              CURRENT VOL1 LABEL VOLSER VENDOR INFORMATION
    MVVOL1,*,6,CH
                                                                     @LSA
                                                                            97900000
    MVVENDOR, *, 8, CH
                                                                            97935600
                                                                     @SGA
   MVWWID, *, 12, CH
MVVWMC, *, 2, FI
                              UNIQUE WORLD WIDE IDENTIFIER
                                                                            97971200
                                                                     @SGA
                              WRITE MOUNT COUNT
                                                                     @SGA
                                                                            98006800
   MVMEDINF,*,8,CH
MVEXPTM,*,4,PD
MVLRDTIM,*,4,PD
                              Media information
                                                                     @04A
                                                                            98042400
                              Expiration time
                                                                     @08A
                                                                            98054200
                              Last read time
                                                                     @08A
                                                                            98066000
    MVLWTTIM, *, 4, PD
                              Last write time
                                                                     @08A
                                                                            98077800
    MVESBEXPDTSETBY, *, 1, FI EXPIRY DATE SET BY
                                                                     008A
                                                                            98084000
      MVESB_UNKNOWN, 0
                                                                     @08A
                                                                            98090300
      MVESB_CMD,1
MVESB_CMD_DEF,2
                                                                     A800
                                                                            98091000
                                                                     A800
                                                                            98091700
      MVESB_CMD_VOLCAT,3
                                                                     @08A
                                                                            98092400
     MVESB_OCE_EXIT,5
MVESB_OCE_DEF,6
MVESB_OCE_MAX,7
                                                                     @08A
                                                                            98093100
                                                                     @08A
                                                                            98093800
                                                                     A800
                                                                            98094500
                                                                     @08A
                                                                            98095200
      MVESB_OCE_VOLCAT,8
MVESB_LCS,9
MVESB_LCS_DEF,10
                                                                     @08A
                                                                            98095900
                                                                     008A
                                                                            98096600
                                                                     @08A
                                                                            98097300
      MVESB_TVEXTPURGE,11
MVESB_CNVT,12
                                                                            98098000
                                                                     AROS
                                                                     @08A
                                                                            98098700
      MVESB_EXPORT,13
                                                                     @08A
                                                                            98099400
      MVESB_LASTREF,14
MVESB_OCE_MC,15
                                                                            98101100
                                                                     @00A
                                                                     ãova
                                                                            98102000
                                                                     @M2A
      MVESB_CATRETPD, 16
                                                                            98102010
      MVESB_CATLG_DAYS, 17
                                                                     @M2A
                                                                            98102020
      MVESB DEFTABLE, 18
                                                                     @M3A
    MVRETENTIONMETHOD, *, 1, FI RETENTION METHOD
                                                                     @OGA
                                                                            98102900
      MVRM_VRSEL,0
                              Retention Method VRS
                                                                            98106400
                                                                     @OGA
      MVRM EXPDT,1
                              Retention Method Expiration date
                                                                     @OGA
                                                                            98109900
                                                                            98113600
      *********************
* LEVEL 3 FIXED LENGTH SECTION (64 BYTES)
                                                                     @SJA
                                                                            98149200
***************************
                                                                            98184800
    MVRETMETSETBY, *, 1, FI
                              RETENTION METHOD SET BY
                                                                     @OGA
                                                                            98187700
     MVRMSB_UNDEFINED,0
MVRMSB_CMD,1
MVRMSB_CMD_DEF,2
MVRMSB_OCE_DEF,3
                                                                     @OGA
                                                                            98190600
                                                                            98193500
                                                                     @OGA
                                                                     @OGA
                                                                            98196400
                                                                     @OGA
                                                                            98199300
      MVRMSB_OCE_EXIT,4
MVRMSB_LCS_DEF,5
                                                                     @OGA
                                                                            98202200
                                                                     @OGA
                                                                            98205100
      MVRMSB CNVT, 6
                                                                     @OGA
                                                                            98208000
      MVRMSB_EXPORT_DEF,7
MVRMSB_INERS_DEF,8
                                                                            98210900
                                                                     @OGA
                                                                     @OGA
                                                                            98213800
      MVRMSB_MC_ATTR,9
                                                                     @M5A
                                                                            98213820
      MVRMSB_DEFTABLE, 10
                                                                      @МЗА
    MVEXPDT_RETAINBY, *, 1, FI
                                                                     @OSA
                                                                            98214900
     MVEXPDT_VOLUME,0
MVEXPDT_FIRSTFILE,1
MVEXPDT_SET,2
                                                                     @OSA
                                                                            98216000
                                                                     @OSA
                                                                            98217100
                                                                     @OSA
                                                                            98218200
                                                                     @OSC
                                                                            98219300
    SKIP,2
                              RESERVED
   MVTUSE64,*,8,FI
MVPHYS_USED,*,8,FI
                              SIZE IN KB
                                                                     @SKA
                                                                            98220400
                              VOLUME PHYSICAL SPACE USED IN KB
                                                                     @SOA
                                                                            98232200
    SKIP,44
                              RESERVED
                                                                     @SOC
                                                                            98244000
************************
                                                                            98256000
* VARIABLE LENGTH SECTION
                                                                            98291600
************************
                                                                            98327200
                     VARIABLE LENGTH SECTION
 MVVARSEC, *, 400
                                                                           98362800
                              LENGTH OF FIRST DSNAME ON TAPE
LENGTH OF LAST DSNAME ON TAPE
    MVDSN1L,=,1,BI
                                                                            98398400
    MVDSNLL,*,1,BI
                                                                            98434000
                              LENGTH OF A/C FIELD (OR ZERO)
LENGTH OF USER DATA (OR ZERO)
    MVACCLEN, *, 1, BI
                                                                            98469600
    MVUSELEN, *, 1, BI
                                                                            98505200
                              NUMBER OF ACCESS LIST ENTRIES
    MVACCLST, *, 1, BI
                                                                            98540800
    MVENCKEY1L, *, 1, BI
                              LENGTH OF ENCRYPTION KEY 1 (OR ZERO) @SJA
                                                                            98576400
    MVENCKEY2L, *, 1, BI
                              LENGTH OF ENCRYPTION KEY 2 (OR ZERO) @SJA
                                                                            98612000
    SKIP,5
                              RESERVED
                                                                     @SJC
                                                                            98647600
   MVDSN1, *, 44, CH
                                                                            98683200
                              DSNAME OF FIRST FILE ON TAPE
   MVDSNL,*,44,CH
MVACCINF,*,40,CH
                              DSNAME OF LAST FILE ON TAPE
                                                                            98718800
                              ACCOUNTING INFORMATION
                                                                            98754400
```

MVDESC, *, 30, CH		98790000
MVUSEFLD,=,30,CH	USER DESCRIPTION	98825600
SKIP,2	RESERVED	98861200
MVAUTIDS,*,96,CH	AUTHORIZED USER IDS AREA	98896800
	TS, CONTAINING UP TO 12 USER IDS	98932400
MVAUTIDS_01,=,8,CH	USER ID - 01	98968000
MVAUTIDS_02,*,8,CH	USER ID - 02	99003600
MVAUTIDS_03,*,8,CH	USER ID - 03	99039200
MVAUTIDS_04,*,8,CH	USER ID - 04	99074800
MVAUTIDS_05,*,8,CH	USER ID - 05	99110400
MVAUTIDS_06,*,8,CH	USER ID - 06	99146000
MVAUTIDS_07,*,8,CH	USER ID - 07	99181600
MVAUTIDS_08,*,8,CH	USER ID - 08	99217200
MVAUTIDS_09,*,8,CH	USER ID - 09	99252800
MVAUTIDS_10,*,8,CH	USER ID - 10	99288400
MVAUTIDS_11,*,8,CH	USER ID - 11	99324000
MVAUTIDS_12,*,8,CH	USER ID - 12	99359600
MVKEYENCOD1, *, 1, CH	ENCRYPTION KEY ENCODING MECHANISM 1 @SJA	99395200
MVKEYLABEL1, *, 64, CH	ENCRYPTION KEY LABEL 1 @SJA	99430800
MVKEYENCOD2, *, 1, CH	ENCRYPTION KEY ENCODING MECHANISM 2 @SJA	99466400
MVKEYLABEL2, *, 64, CH		99502000
MVALLEND,*	ALL FIELDS END MARKER @K2A	99502500
SKIP,2	RESERVED @K2A	99503000
*******	***********	99537600
* END OF VOLUME INFORMATION	*	99573200
*******	**********	99608800
MVRCEND,*	END OF MVRC	99644400
******	*********	99680000
* END OF RMM MVREC	*	99715600
*******	**********	99751200

Appendix B. DFSMSrmm mapping macros

Rule: Do not use any DFSMSrmm macros, other than those identified in this document as programming interfaces.

DFSMSrmm provides the macros that are identified in this topic as programming interfaces for customers.

- ACTIVITY File Mapping Macro in SYS1.MACLIB. See "ACTIVITY file record: EDGACTRC" on page 227.
- 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 record: EDGRDEXT" on page 237
- "Extract data set header record: EDGRHEXT" on page 243
- "Extract data set vital record specification record: EDGRKEXT" on page 244
- "Extract data set owner record: EDGROEXT" on page 247
- "Extract data set software product record: EDGRPEXT" on page 249
- "Extract data set rack record: EDGRREXT" on page 251
- "Extract data set storage location bin record: EDGRSEXT" on page 253
- "Extract data set volume record: EDGRVEXT" on page 254
- "Extract data set extended data set record: EDGRXEXT" on page 265
- SMF Records Mapping Macros in SYS1.MODGEN or SYS1.MACLIB,.

Note: With the exception of IGWSMF, which is in SYS1.MACLIB, all the SMF records mapping macros are 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 action record information: EDGSAREC" on page 279
- "SMF data set information: EDGSDREC" on page 281
- "SMF vital record specification information: EDGSKREC" on page 288
- "SMF audit record header information: EDGSMFAR" on page 292
- "SMF security record information: EDGSMFSR" on page 293
- "SMF owner information: EDGSOREC" on page 295
- "SMF software product information: EDGSPREC" on page 298
- "SMF library shelf location information: EDGSRREC" on page 300
- "SMF storage location bin information: EDGSSREC" on page 302
- "SMF volume information: EDGSVREC" on page 305
- "SMF type 42 subtypes information: IGWSMF" on page 319 (in SYS1.MACLIB)

ACTIVITY file record: EDGACTRC

EDGACTRC maps the DFSMSrmm ACTIVITY file. See "Using the inventory management ACTIVITY file" on page 51 for information about using the ACTIVITY file.

Common name: RMM Inventory Management Activity File

Record

Macro ID: EDGACTRC DSECT name: ACTRC

Owning component: DFSMSrmm (DF186) Eye-catcher ID: None Storage attributes: Subpool: N/A

Key: N/A

Residency: N/A

Size: See STRUCTURE length
Created by: EDGHSKP
Pointed to by: Assembler - USING on ACTRC
PL/X - %INCLUDE EDGACTRC

Serialization: None

Function: Maps the ACTRC structure to identify
Header details, Data set details and
Volume details within the RMM activity

file records.

Table 11. Stru	ıcture ACTRC	:			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
0	(0)	STRUCTURE	459	ACTRC	Activity record
0	(0)	CHARACTER	4	ACTRC_RDW	Record descriptor word
0	(0)	SIGNED	2	ACTRC_RDW_LEN	Record descriptor - length
2	(2)	BIT(16)	2	ACTRC_RDW_SEG	Record descriptor - segment
	Common re	cord prefix			
4	(4)	CHARACTER	4	ACTRC_PREFIX	Common prefix
4	(4)	CHARACTER	1	ACTRC_PRE_TYPE	Activity file record type
5	(5)	CHARACTER	1	ACTRC_PRE_RETENTION_GROUP	One of: R, D, X
8	(8)	CHARACTER	451	ACTRC_DATA	Overlay for details areas
	Header Re	cord			
8	(8)	CHARACTER	165	ACTRC_HDR_DATA	Header data
8	(8)	CHARACTER	10	ACTRC_HDR_RUN_DATE	Inventory management date
18	(12)	CHARACTER	6	ACTRC_HDR_RUN_TIME	Inventory management time
24	(18)	CHARACTER	10	ACTRC_HDR_VERIFY_DATE	Inventory management 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
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: A, E, I, J
42	(2A)	CHARACTER	1	ACTRC_HDR_CATSYNCH	CATSYNCH: Y, N
50	(32)	CHARACTER	107	ACTRC_HDR_OPTIONS	
50	(32)	CHARACTER	1	ACTRC_HDR_VRSJOBNAME	VRSJOBNAME priority: 1,
51	(33)	CHARACTER	1	ACTRC_HDR_VRSCHANGE	VRSCHANGE: V, I
52	(34)	CHARACTER	4	ACTRC_HDR_CATRETPD	CATRETPD hours

Table 11. Str	Table 11. Structure ACTRC (continued)						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
56	(38)	CHARACTER	10	ACTRC_HDR_VRSMIN_COUNT	VRSMIN count		
66	(42)	CHARACTER	1	ACTRC_HDR_VRSMIN_ACTION	VRSMIN action: F, W, I, O		
67	(43)	CHARACTER	1	ACTRC_HDR_OPT_VRSEL	VRSEL: N(ew)		
68	(44)	CHARACTER	1	ACTRC_HDR_UNCATALOG	UNCATALOG: Y, N, S		
69	(45)	CHARACTER	1	ACTRC_HDR_TPRACF	TPRACF: N, P, A, C		
70	(46)	CHARACTER	8	ACTRC_HDR_SYSID	SYSID		
78	(4E)	CHARACTER	1	ACTRC_HDR_CATSYSID	CATSYSID: N, Y, *		
79	(4F)	CHARACTER	1	ACTRC_HDR_OPT_RETAINBY	RETAINBY: V, S		
80	(50)	CHARACTER	1	ACTRC_HDR_OPT_MOVEBY	MOVEBY: V, S		
81	(51)	CHARACTER	10	ACTRC_HDR_VRSDROP_COUNT	VRSDROP count		
91	(5B)	CHARACTER	3	ACTRC_HDR_VRSDROP_PERCENT	VRSDROP percentage		
94	(5E)	CHARACTER	1	ACTRC_HDR_VRSDROP_ACTION	VRSDROP action		
95	(5F)	CHARACTER	10	ACTRC_HDR_VRSRETAIN_COUNT	VRSRETAIN count		
105	(69)	CHARACTER	3	ACTRC_HDR_VRSRETAIN_PERCENT	VRSRETAIN percentage		
108	(6C)	CHARACTER	1	ACTRC_HDR_VRSRETAIN_ACTION	VRSRETAIN action		
109	(6D)	CHARACTER	10	ACTRC_HDR_EXPDTDROP_COUNT	EXPDTDROP count		
119	(77)	CHARACTER	3	ACTRC_HDR_EXPDTDROP_PERCENT	EXPDTDROP percentage		
122	(7A)	CHARACTER	1	ACTRC_HDR_EXPDTDROP_ACTION	EXPDTDROP action		
123	(7B)	CHARACTER	1	ACTRC_HDR_GDGCYCLEBY	GDGCYCLEBY: G, C		
124	(7C)	CHARACTER	1	ACTRC_HDR_GDGDUPLICATE	GDGDUPLICATE: B, D, K, C		
157	(9D)	CHARACTER	10	ACTRC_HDR_VRS_LAST_RUNDATE	VRSEL last run date		
167	(A7)	CHARACTER	6	ACTRC_HDR_VRS_LAST_RUNTIME	VRSEL last run time		
	Data Set	Record					
8	(8)	CHARACTER	446	ACTRC_DSN_DATA	Overlay for data set 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		
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		
98	(62)	CHARACTER	8	ACTRC_DSN_DEST	Volume destination		
106	(6A)	CHARACTER	8	ACTRC_DSN_SMS_MC	SMS management class name		
114	(72)	CHARACTER	8	ACTRC_DSN_VRS_MV	VRS management value name		
122	(7A)	CHARACTER	1	ACTRC_DSN_CATLG	Data set catalog status		
123	(7B)	CHARACTER	10	ACTRC_DSN_CYCLE	Primary VRS data set cycle number		
133	(85)	CHARACTER	10	ACTRC_DSN_2CYCLE	Secondary VRS data set cycle number		
143	(8F)	CHARACTER	1	ACTRC_DSN_SUBCHAIN_DROP	Primary VRS subchain drop reason		
144	(90)	CHARACTER	1	ACTRC_DSN_2SUBCHAIN_DROP	Secondary VRS subchain drop reason		
145	(91)	CHARACTER	1	ACTRC_DSN_OLD_CATLG	Old catalog status		
146	(92)	CHARACTER	1	ACTRC_DSN_NEW_CATLG	New catalog status		
172	(AC)	CHARACTER	5	ACTRC_DSN_VOL_DSNNO	Number of data sets on volume		

Offset	Offset	Type	Len	Name(Dim)	Description
Dec	Hex	-76-			
177	(B1)	CHARACTER	1	ACTRC_DSN_VOL_INSET	Volume in a set: Y, N
178	(B2)	CHARACTER	8	ACTRC_DSN_CHANGE	Changes to data set details:
178	(B2)	CHARACTER	1	ACTRC_DSN_CHNG_VRS	Vital record 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	Catalog status: Y, N
186	(BA)	CHARACTER	1	ACTRC_DSN_OLD_VITAL	Old vital record status: Y, N
187	(BB)	CHARACTER	1	ACTRC_DSN_NEW_VITAL	New vital record status: Y, N
188	(BC)	CHARACTER	1	ACTRC_DSN_DROP	Non-retention reason: W, U, C, D, I X, B, N, G, V
189	(BD)	CHARACTER	8	ACTRC_DSN_NEW_LOC	New required data set location
197	(C5)	CHARACTER	10	ACTRC_DSN_OLD_RETDATE	Old data set retention date
207	(CF)	CHARACTER	10	ACTRC_DSN_NEW_RETDATE	New data set retention date. Format as per DATEFORM parameter. Special date formats: WHILECATLG, CYCL/nnnr CATRETPD
217	(D9)	CHARACTER	113	ACTRC_DSN_OLD_MATCH	Old matching VRS
217	(D9)	CHARACTER	1	ACTRC_DSN_OLD_MTYPE	Old primary VRS type: D, S, V, M,
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
270	(10E)	CHARACTER	8	ACTRC_DSN_OLD_M2MASK	Old secondary VRS mask
278	(116)	CHARACTER	8	ACTRC_DSN_OLD_M2JOB	Old secondary 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 secondary VRS subchain name
312	(138)	CHARACTER	10	ACTRC_DSN_OLD_M2DATE	Old secondary VRS subchain start da
330	(14A)	CHARACTER	113	ACTRC_DSN_NEW_MATCH	New matching VRS
330	(14A)	CHARACTER	1	ACTRC_DSN_NEW_MTYPE	New primary VRS type: D, S, V, M, (
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 secondary VRS mask
391	(187)	CHARACTER	8	ACTRC_DSN_NEW_M2J0B	New secondary 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 secondary VRS subchain name
425	(1A9)	CHARACTER	10	ACTRC_DSN_NEW_M2DATE	New secondary VRS subchain start da
443	(1BB)	CHARACTER	5	ACTRC_DSN_DSEQ	Data set sequence number
448	(100)	CHARACTER	5	ACTRC_DSN_FILESEQ	Physical file sequence number
453	(105)	CHARACTER	1	ACTRC_DSN_VRSEL_EXCLUDE	VRSEL excluded Y/N
	Volume Re	cord	1		
8	(8)	CHARACTER	451	ACTRC_VOL_DATA	Overlay for volume data
8	(8)	CHARACTER	44		Data set name

Table 11. Stru	Table 11. Structure ACTRC (continued)						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
52	(34)	CHARACTER	8	ACTRC_VOL_JOBNAME	Creating job name		
60	(3C)	CHARACTER	6	ACTRC_VOL_VOL	Volume serial number		
74	(4A)	CHARACTER	10	ACTRC_VOL_ASDATE	Volume assigned date		
84	(54)	CHARACTER	6	ACTRC_VOL_ASTIME	Volume assigned time		
90	(5A)	CHARACTER	8	ACTRC_VOL_LOC	Volume location		
98	(62)	CHARACTER	8	ACTRC_VOL_DEST	Volume destination		
106	(6A)	CHARACTER	1	ACTRC_VOL_RETMET	Retention Method		
107	(6B)	CHARACTER	1	ACTRC_VOL_RETAINBY	RETAINBY		
141	(8D)	CHARACTER	5	ACTRC_VOL_DSNNO	Number of data sets on volume		
146	(92)	CHARACTER	1	ACTRC_VOL_INSET	Volume in set: Y, N		
147	(93)	CHARACTER	8	ACTRC_VOL_CHANGE	Changes to volume details:		
147	(93)	CHARACTER	1	ACTRC_VOL_CHNG_VRS	Vital record status: Y, N		
148	(94)	CHARACTER	1	ACTRC_VOL_CHNG_RETDATE	Retention date: Y, N		
150	(96)	CHARACTER	1	ACTRC_VOL_CHNG_STATUS	Released: Y, N		
155	(9B)	CHARACTER	6	ACTRC_VOL_ACTIONS_PENDING	Pending actions		
155	(9B)	CHARACTER	1	ACTRC_VOL_ACTPEND_RTS	Return to scratch		
156	(9C)	CHARACTER	1	ACTRC_VOL_ACTPEND_REPL	Replace		
157	(9D)	CHARACTER	1	ACTRC_VOL_ACTPEND_RTO	Return to owner		
158	(9E)	CHARACTER	1	ACTRC_VOL_ACTPEND_INIT	Init		
159	(9F)	CHARACTER	1	ACTRC_VOL_ACTPEND_ERASE	Erase		
160	(A0)	CHARACTER	1	ACTRC_VOL_ACTPEND_NOTIFY	Notify		
161	(A1)	CHARACTER	6	ACTRC_VOL_ACTIONS_RELEASE	Release actions		
161	(A1)	CHARACTER	1	ACTRC_VOL_ACTRLSE_RTS	Return to scratch		
162	(A2)	CHARACTER	1	ACTRC_VOL_ACTRLSE_REPL	Replace		
163	(A3)	CHARACTER	1	ACTRC_VOL_ACTRLSE_RTO	Return to owner		
164	(A4)	CHARACTER	1	ACTRC_VOL_ACTRLSE_INIT	Init		
165	(A5)	CHARACTER	1	ACTRC_VOL_ACTRLSE_ERASE	Erase		
166	(A6)	CHARACTER	1	ACTRC_VOL_ACTRLSE_NOTIFY	Notify		
167	(A7)	CHARACTER	1	ACTRC_VOL_RETAIN_BY_SET	Retain by set: Y, N		
168	(8A)	CHARACTER	1	ACTRC_VOL_OLD_VITAL	Old vital record status: Y, N		
169	(A9)	CHARACTER	1	ACTRC_VOL_NEW_VITAL	New vital record status: Y, N		
170	(AA)	CHARACTER	1	ACTRC_VOL_DROP	Non-retention reason: X, I		
171	(AB)	CHARACTER	8	ACTRC_VOL_NEW_LOC	New required location		
179	(B3)	CHARACTER	8	ACTRC_VOL_HOME_LOC	Home location		
187	(BB)	CHARACTER	10	ACTRC_VOL_EXPDT	Expiration date		
197	(C5)	CHARACTER	10	ACTRC_VOL_OLD_RETDATE	Old retention date		
207	(CF)	CHARACTER	10	ACTRC_VOL_NEW_RETDATE	New retention date. Format as per DATEFORM parameter. Special date formats: WHILECATLG, CYCL/nnnnn, CATRETPD		
217	(D9)	CHARACTER	113	ACTRC_VOL_YYYY			
330	(14A)	CHARACTER	113	ACTRC_VOL_NEW_MATCH	If retaining:		
330	(14A)	CHARACTER	1	ACTRC_VOL_NEW_MTYPE	VRS type		
331	(14B)	CHARACTER	6	ACTRC_VOL_NEW_MMASK	Volume VRS mask		

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Table 11. Str	Table 11. Structure ACTRC (continued)						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
443	(1BB)	CHARACTER	5	*	Volume sequence		
444	(1BC)	CHARACTER	4	ACTRC_VOL_VSEQ	Volume sequence part		
448	(100)	CHARACTER	5	ACTRC_VOL_LABNO1	First file data set sequence		
453	(105)	CHARACTER	1	ACTRC_VOL_HOLD	Volume hold: Y, N		
454	(106)	CHARACTER	1	ACTRC_VOL_EDM	Volume EDM: Y, N		
455	(107)	CHARACTER	4	ACTRC_VOL_RSV2	Reserved		

Table 12. Co	ble 12. Constants for ACTRC					
Len	Туре	Value	Name	Description		
Con	stants					
1	CHARACTER	Н	ACTRC_PRE_TYPE_HDR			
1	CHARACTER	D	ACTRC_PRE_TYPE_DSN			
1	CHARACTER	V	ACTRC_PRE_TYPE_VOL			
1	CHARACTER	R	ACTRC_PRE_RETENTION_GROUP_VRSRETAIN			
1	CHARACTER	D	ACTRC_PRE_RETENTION_GROUP_VRSDROP			
1	CHARACTER	Х	ACTRC_PRE_RETENTION_GROUP_EXPDTDROP			
1	CHARACTER	1	ACTRC_HDR_VRSJOBNAME_FIRST			
1	CHARACTER	2	ACTRC_HDR_VRSJOBNAME_SECOND			
1	CHARACTER	F	ACTRC_HDR_VRSMIN_ACTION_FAIL			
1	CHARACTER	W	ACTRC_HDR_VRSMIN_ACTION_WARN			
1	CHARACTER	I	ACTRC_HDR_VRSMIN_ACTION_INFO			
1	CHARACTER	0	ACTRC_HDR_VRSMIN_ACTION_OFF			
1	CHARACTER	F	ACTRC_HDR_VRSDROP_ACTION_FAIL			
1	CHARACTER	W	ACTRC_HDR_VRSDROP_ACTION_WARN			
1	CHARACTER	I	ACTRC_HDR_VRSDROP_ACTION_INFO			
1	CHARACTER	0	ACTRC_HDR_VRSDROP_ACTION_OFF			
1	CHARACTER	F	ACTRC_HDR_VRSRETAIN_ACTION_FAIL			
1	CHARACTER	W	ACTRC_HDR_VRSRETAIN_ACTION_WARN			
1	CHARACTER	I	ACTRC_HDR_VRSRETAIN_ACTION_INFO			
1	CHARACTER	0	ACTRC_HDR_VRSRETAIN_ACTION_OFF			
1	CHARACTER	F	ACTRC_HDR_EXPDTDROP_ACTION_FAIL			
1	CHARACTER	W	ACTRC_HDR_EXPDTDROP_ACTION_WARN			
1	CHARACTER	I	ACTRC_HDR_EXPDTDROP_ACTION_INFO			
1	CHARACTER	0	ACTRC_HDR_EXPDTDROP_ACTION_OFF			
1	CHARACTER	N	ACTRC_HDR_OPT_VRSEL_NEW			
1	CHARACTER	N	ACTRC_HDR_UNCATALOG_NO			
1	CHARACTER	Υ	ACTRC_HDR_UNCATALOG_YES			
1	CHARACTER	S	ACTRC_HDR_UNCATALOG_SCRATCH			
1	CHARACTER	N	ACTRC_HDR_TPRACF_NONE			
1	CHARACTER	Р	ACTRC_HDR_TPRACF_PREDEFINED			
1	CHARACTER	А	ACTRC_HDR_TPRACF_AUTOMATIC			
1	CHARACTER	С	ACTRC_HDR_TPRACF_CLEANUP			

Table 12. Co	nstants for ACTRC (con	tinued)		
Len	Туре	Value	Name	Description
1	CHARACTER	N	ACTRC_HDR_CATSYSID_NOT_SET	
1	CHARACTER	Υ	ACTRC_HDR_CATSYSID_SET	
1	CHARACTER	*	ACTRC_HDR_CATSYSID_SHARED	
1	CHARACTER	ν	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	G	ACTRC_HDR_GDGC_GENERATION	
1	CHARACTER	С	ACTRC_HDR_GDGC_CRDATE	
1	CHARACTER	В	ACTRC_HDR_GDGD_BUMP	
1	CHARACTER	D	ACTRC_HDR_GDGD_DROP	
1	CHARACTER	К	ACTRC_HDR_GDGD_KEEP	
1	CHARACTER	С	ACTRC_HDR_GDGD_COUNT	
1	CHARACTER	Υ	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	D	ACTRC_DSN_OLD_MTYPE_DSN	
1	CHARACTER	S	ACTRC_DSN_OLD_MTYPE_SMS	
1	CHARACTER	V	ACTRC_DSN_OLD_MTYPE_VRS	
1	CHARACTER	М	ACTRC_DSN_OLD_MTYPE_MIX	
1	CHARACTER	С	ACTRC_DSN_OLD_MTYPE_DSNSMS	
1	CHARACTER	D	ACTRC_DSN_NEW_MTYPE_DSN	
1	CHARACTER	S	ACTRC_DSN_NEW_MTYPE_SMS	
1	CHARACTER	V	ACTRC_DSN_NEW_MTYPE_VRS	
1	CHARACTER	М	ACTRC_DSN_NEW_MTYPE_MIX	
1	CHARACTER	С	ACTRC_DSN_NEW_MTYPE_DSNSMS	
1	CHARACTER	W	ACTRC_DSN_DROP_WHILECATALOG	
1	CHARACTER	U	ACTRC_DSN_DROP_UNTILEXPIRED	
1	CHARACTER	С	ACTRC_DSN_DROP_CYCLES	
1	CHARACTER	D	ACTRC_DSN_DROP_DAYS	
1	CHARACTER	L	ACTRC_DSN_DROP_LASTREF	
1	CHARACTER	Х	ACTRC_DSN_DROP_EXTRADAYS	
1	CHARACTER	В	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	
1	CHARACTER	S	ACTRC_VOL_ACTIONS_CONST_RTS	
1	CHARACTER	R	ACTRC_VOL_ACTIONS_CONST_REPL	
1	CHARACTER	0	ACTRC_VOL_ACTIONS_CONST_RTO	
1	CHARACTER	I	ACTRC_VOL_ACTIONS_CONST_INIT	
1	CHARACTER	Е	ACTRC_VOL_ACTIONS_CONST_ERASE	
1	CHARACTER	N	ACTRC_VOL_ACTIONS_CONST_NOTIFY	

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Table 12. Co	ple 12. Constants for ACTRC (continued)					
Len	Туре	Value	Name	Description		
1	CHARACTER	Х	ACTRC_VOL_DROP_EXPDT_EXPIRED			
1	CHARACTER	I	ACTRC_VOL_DROP_EXPDT_IGNORED			
1	CHARACTER	V	ACTRC_VOL_NEW_MTYPE_VOL			
1	CHARACTER	N	ACTRC_VOL_HOLD_NO			
1	CHARACTER	Υ	ACTRC_VOL_HOLD_YES			
1	CHARACTER	N	ACTRC_VOL_EDM_NO			
1	CHARACTER	Υ	ACTRC_VOL_EDM_YES			
1	CHARACTER	V	ACTRC_VOL_RETMET_VRSEL			
1	CHARACTER	E	ACTRC_VOL_RETMET_EXPDT			
1	CHARACTER	V	ACTRC_VOL_RETAINBY_VOL			
1	CHARACTER	S	ACTRC_VOL_RETAINBY_SET			
1	CHARACTER	F	ACTRC_VOL_RETAINBY_FIRST			

Table 13. Cross Reference for ACTRC			
Name	0ffset	Hex Tag	Level
ACTRC	0		1
ACTRC_DATA	8		2
ACTRC_DSN_CATLG	7A		4
ACTRC_DSN_CHANGE	B2		4
ACTRC_DSN_CHNG_CATALOG	В6		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	ВС		4
ACTRC_DSN_DSEQ	1BB		4
ACTRC_DSN_DSNAME	8		4
ACTRC_DSN_FILESEQ	100		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
ACTRC_DSN_NEW_MMASK	14B		5
ACTRC_DSN_NEW_MNAME	18F		5
ACTRC_DSN_NEW_MTYPE	14A		5

Table 13. Cross Reference for ACTRC (continued)	255		
Name	Offset	Hex Tag	Level
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	ВА		4
ACTRC_DSN_SMS_MC	6A		4
ACTRC_DSN_SUBCHAIN_DROP	8F		4
ACTRC_DSN_VOL	3C		4
ACTRC_DSN_VOL_DSNNO	AC		4
ACTRC_DSN_VOL_INSET	B1		4
ACTRC_DSN_VRS_MV	72		4
ACTRC_DSN_VRSEL_EXCLUDE	1C5		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_EXPDTDROP_ACTION	7A		5
ACTRC_HDR_EXPDTDROP_COUNT	6D		5
ACTRC_HDR_EXPDTDROP_PERCENT	77		5
ACTRC_HDR_EXPROC	24		5
ACTRC_HDR_GDGCYCLEBY	7B		5
ACTRC_HDR_GDGDUPLICATE	7C		5

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Table 13. Cross Reference for ACTRC (continued)			
Name	Offset	Hex Tag	Level
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_VRS_LAST_RUNDATE	9D		4
ACTRC_HDR_VRS_LAST_RUNTIME	A7		4
ACTRC_HDR_VRSCHANGE	33		5
ACTRC_HDR_VRSDROP_ACTION	5E		5
ACTRC_HDR_VRSDROP_COUNT	51		5
ACTRC_HDR_VRSDROP_PERCENT	5B		5
ACTRC_HDR_VRSEL	26		5
ACTRC_HDR_VRSJOBNAME	32		5
ACTRC_HDR_VRSMIN_ACTION	42		5
ACTRC_HDR_VRSMIN_COUNT	38		5
ACTRC_HDR_VRSRETAIN_ACTION	6C		5
ACTRC_HDR_VRSRETAIN_COUNT	5F		5
ACTRC_HDR_VRSRETAIN_PERCENT	69		5
ACTRC_PRE_RETENTION_GROUP	5		3
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_ACTIONS_PENDING	9B		4
ACTRC_VOL_ACTIONS_RELEASE	A1		4
ACTRC_VOL_ACTPEND_ERASE	9F		5
ACTRC_VOL_ACTPEND_INIT	9E		5
ACTRC_VOL_ACTPEND_NOTIFY	AO		5
ACTRC_VOL_ACTPEND_REPL	9C		5
ACTRC_VOL_ACTPEND_RTO	9D		5
ACTRC_VOL_ACTPEND_RTS	9B		5
ACTRC_VOL_ACTRLSE_ERASE	A5		5
ACTRC_VOL_ACTRLSE_INIT	A4		5
ACTRC_VOL_ACTRLSE_NOTIFY	A6		5
ACTRC_VOL_ACTRLSE_REPL	A2		5

Table 13. Cross Reference for ACTRC (continued)			
Name	Offset	Hex Tag	Level
ACTRC_VOL_ACTRLSE_RTO	A3		5
ACTRC_VOL_ACTRLSE_RTS	A1		5
ACTRC_VOL_ASDATE	4A		4
ACTRC_VOL_ASTIME	54		4
ACTRC_VOL_CHANGE	93		4
ACTRC_VOL_CHNG_RETDATE	94		5
ACTRC_VOL_CHNG_STATUS	96		5
ACTRC_VOL_CHNG_VRS	93		5
ACTRC_VOL_DATA	8		3
ACTRC_VOL_DEST	62		4
ACTRC_VOL_DROP	AA		4
ACTRC_VOL_DSNAME	8		4
ACTRC_VOL_DSNNO	8D		4
ACTRC_VOL_EDM	106		4
ACTRC_VOL_EXPDT	ВВ		4
ACTRC_VOL_HOLD	105		4
ACTRC_VOL_HOME_LOC	В3		4
ACTRC_VOL_INSET	92		4
ACTRC_VOL_JOBNAME	34		4
ACTRC_VOL_LABNO1	100		4
ACTRC_VOL_LOC	5A		4
ACTRC_VOL_NEW_LOC	AB		4
ACTRC_VOL_NEW_MATCH	14A		4
ACTRC_VOL_NEW_MMASK	14B		5
ACTRC_VOL_NEW_MTYPE	14A		5
ACTRC_VOL_NEW_RETDATE	CF		4
ACTRC_VOL_NEW_VITAL	A9		4
ACTRC_VOL_OLD_RETDATE	C5		4
ACTRC_VOL_OLD_VITAL	A8		4
ACTRC_VOL_RETAIN_BY_SET	A7		4
ACTRC_VOL_RETAINBY	6B		4
ACTRC_VOL_RETMET	6A		4
ACTRC_VOL_RSV2	107		4
ACTRC_VOL_VOL	3C		4
ACTRC_VOL_VSEQ	1BC		5
ACTRC_VOL_YYYY	D9		4

Extract data set data set record: EDGRDEXT

EDGRDEXT maps the data set record in the DFSMSrmm extract data set. See <u>"Using the extract data set"</u> on page 50 for more information about the DFSMSrmm extract data set.

Common name: RMM Extract File Data Set Record

Macro ID: EDGRDEXT DSECT name: RDEXT

Owning component: DFSMSrmm (DF186)

Eye-catcher ID: D

Storage attributes: Subpool: N/A

Key: N/A Residency: N/A

Size: See STRUCTURE length

Created by: EDGHSKP

Pointed to by: Assembler - USING on RDEXT
PL/X - %INCLUDE EDGRDEXT

Serialization: None

Function: Maps the RDEXT structure to identify

the details within the RMM extract file

 $$\operatorname{data}$$ set record. In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.

Section RDEXT1 contains the data elements which are copied to section XDEXT1 of the extented (X) record as

one block.

Section RDEXT2 contains the data elements which are copied to

section XXMERGED of the extented (X) record on

field level.

Table 14. Structure RDEXT							
Offset Dec	Offset Hex		Len	Name(Dim)	Description		
0	(0)	STRUCTURE	620	RDEXT			
0	(0)	CHARACTER	477	RDEXT1	First data section		
0	(0)	CHARACTER	1	RDTYPE	Record type: C'D'		
4	(4)	CHARACTER	44	RDDSNAME	Data set name		
The co in the	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 record		
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	RDLCUID	Last change user ID of data set record		
96	(60)	CHARACTER	8	RDLCSID	Last change system ID of data set record		
End o	f common f	ields					
104	(68)	CHARACTER	6	RDVOLSER	Volume serial number		
110	(6E)	CHARACTER	4	RDDSNSEQ_OLD	Data set sequence number if <=9999		
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_OLD	Block count if <=99999999		

	Table 14. Structure RDEXT (continued)							
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description			
146	(92)	CHARACTER	8	RDOWNDSN	Data set owner			
154	(9A)	CHARACTER	8	RDSECLEV	Security level - short			
162	(A2)	CHARACTER	30	RDSECLNG	Security level - long			
192	(CO)	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			
261	(105)	CHARACTER	1	RDVRSTYP	Matching VRS type, one of: D(data set), S(SMSMC), V(VRSMV), M(data set and VRSMV), C(data set 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	RDDDNAME	Creating DD name			
	ID: Is a u		ned to eve	RDDDNAME ry volume and every	Creating DD name			
	ID: Is a u	I Inique token assig	ned to eve		Creating DD name Multi data set multi volume ID			
RDMDMV 340	ID: Is a u data s	unique token assig set in a multi-vol CHARACTER	ned to ever ume set. 8	ry volume and every RDMDMVID lying the blocksize	-			
RDMDMV 340	ID: Is a u data s	Inique token assig set in a multi-vol CHARACTER	ned to ever ume set. 8	ry volume and every RDMDMVID lying the blocksize	-			
RDMDMV 340 Data s	ID: Is a u data s (154) et size: T	character This is calculated by the number of b	ned to ever ume set. 8 by multiplocks divid	RDMDMVID lying the blocksize ded by 1024.	Multi data set multi volume ID			
RDMDMV 340 Data s 348 358	ID: Is a u data s (154) et size: T b (15C) (166) Set to 'Y VOLSER by cataloged Set to 'N	CHARACTER (' either when ope of the lafter the data sold when it was cath cath cath cath cath cath cath cath	ned to everume set. 8 by multiplocks divided to the catalog of the catalog of alloged and	RDMDMVID Lying the blocksize ded by 1024. RDDSSIZE RDABEND allocation determines r when data set is reded in DFSMSrmm. now is not.	Multi data set multi volume ID Approximate size of file in kilobytes			
RDMDMV 340 Data s 348 358	ID: Is a u data s (154) et size: T (15C) (166) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U	CHARACTER (' either when ope of the lafter the data sold when it was cath cath cath cath cath cath cath cath	ned to everume set. 8 by multiplocks divided to the catalog of the catalog of alloged and	RDMDMVID Lying the blocksize ded by 1024. RDDSSIZE RDABEND allocation determines r when data set is reded in DFSMSrmm. now is not.	Multi data set multi volume ID Approximate size of file in kilobytes			
RDMDMV 340 Data s 348 358 RDCAT:	ID: Is a u data s (154) et size: T b (15C) (166) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog	CHARACTER (' either when ope reference to the lafter the data s' when it was cat' (unknown) when teed.	ned to everume set. 8 by multiplocks divided to the control of t	RDMDMVID Lying the blocksize ded by 1024. RDDSSIZE RDABEND allocation determines r when data set is reded in DFSMSrmm. now is not. er cataloged or	Multi data set multi volume ID Approximate size of file in kilobytes Data set closed by ABEND: Y, N			
340 Data s 348 358 RDCAT:	ID: Is a u data s (154) et size: T b (15C) (166) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (167)	CHARACTER	ned to everume set. 8 by multiplocks divided to the set of the se	RDMDMVID lying the blocksize ded by 1024. RDDSSIZE RDABEND allocation determines or when data set is reded in DFSMSrmm. now is not. er cataloged or	Multi data set multi volume ID Approximate size of file in kilobytes Data set closed by ABEND: Y, N			
340 Data s 348 358 RDCAT:	ID: Is a u data s (154) et size: T b (15C) (166) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (167) (168)	CHARACTER	ned to everume set. 8 by multiplocks divided a catalog of a catalog o	RDMDMVID lying the blocksize ded by 1024. RDDSSIZE RDABEND allocation determines ar when data set is creded in DFSMSrmm. now is not. er cataloged or RDCAT RDVRSR RDDELETED	Multi data set multi volume ID Approximate size of file in kilobytes Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N			
340 Data s 348 358 RDCAT: 359 360 361	ID: Is a u data s (154) et size: T b (15C) (166) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (167) (168) (169)	CHARACTER	ned to everume set. 8 by multiplocks divided to the set of the se	RDMDMVID Lying the blocksize ded by 1024. RDDSSIZE RDABEND Allocation determines r when data set is reded in DFSMSrmm. now is not. er cataloged or RDCAT RDVRSR RDDELETED RDRSVMW1	Multi data set multi volume ID Approximate size of file in kilobytes Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N			
340 Data s 348 358 RDCAT: 359 360 361 362 364	ID: Is a u data s (154) et size: T b (15C) (166) Set to 'Y VOLSER by vataloged Set to 'N Set to 'U uncatalog (167) (168) (169) (16A) (16C)	CHARACTER CHARACTER	ned to everume set. 8 by multiplocks divided to the set is recorded and it was never the set is recorded to the s	RDMDMVID Lying the blocksize ded by 1024. RDDSSIZE RDABEND Allocation determines r when data set is reded in DFSMSrmm. now is not. er cataloged or RDCAT RDVRSR RDDELETED RDRSVMW1	Multi data set multi volume ID Approximate size of file in kilobytes Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N Reserved			
340 Data s 348 358 RDCAT: 359 360 361 362 364	ID: Is a u data s (154) et size: T b (15C) (166) Set to 'Y VOLSER by vataloged Set to 'N Set to 'U uncatalog (167) (168) (169) (16A) (16C)	CHARACTER CHARACTER	ned to everume set. 8 by multiplocks divided to the set is recorded and it was never the set is recorded to the s	RDMDMVID Lying the blocksize ded by 1024. RDDSSIZE RDABEND allocation determines or when data set is orded in DFSMSrmm. now is not. er cataloged or RDCAT RDVRSR RDDELETED RDRSVMW1 RDLABNO_OLD RS in the matching or set only if retained in the primary VRS.	Multi data set multi volume ID Approximate size of file in kilobytes Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N Reserved			

Offset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex	.,,,,			
Retain	ing second	where a seco The retainin	ndary VRS a g VRS subch is set if	ob name are included lso matches. ain name in this it is used to retain	
386	(182)	CHARACTER	8	RD2VNME	Secondary VRS name mask
394	(18A)	CHARACTER	8	RD2VJBN	Secondary VRS job name mask
402	(192)	CHARACTER	8	RD2VSCH	Secondary VRS subchain name
410	(19A)	CHARACTER	10	RD2VXDS	Secondary VRS subchain start date
420	(1A4)	CHARACTER	10	RDTOTAL_BLKCNT_OLD	Total block count across this and previous volumes
430	(1AE)	CHARACTER	3	RDPERCENT	Percentage of volume used by data
433	(1B1)	CHARACTER	8	RDCPGM	Creating program name
441	(1B9)	CHARACTER	8	RDLPGM	Last used program name
449	(101)	CHARACTER	8	RDLJOB	Last use job name
457	(109)	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	143	RDEXT2	Second data section
477	(1DD)	CHARACTER	5	RDDSNSEQ	Data set sequence number
482	(1E2)	CHARACTER	5	RDLABNO	Label number LABEL=(xx,11)
487	(1E7)	CHARACTER	10	RDEXPDT	Data set expiration date
497	(1F1)	CHARACTER	10	RDEXPDTO	Original data set expiration date
507	(1FB)	CHARACTER	1	RDDEFRET	Default retention period used
508	(1FC)	CHARACTER	2	RDFACTOR	Space/size factor: MB, GB, TB
510	(1FE)	CHARACTER	10	RDSIZE	Size of file RDSIZE is factored
520	(208)	CHARACTER	10	RDBESKEY	BES key index
530	(212)	CHARACTER	20	RDBLKCNT	Block count
550	(226)	CHARACTER	20	RDTOTAL_BLKCNT	Total block count across all volume
570	(23A)	CHARACTER	10	RDESB	Expdt set by
580	(244)	CHARACTER	10	RDUCDATE	Last "user" change date of data ser
590	(24E)	CHARACTER	6	RDUCTIME	Last "user" change time (HHMMSS) o data set record
596	(254)	CHARACTER	1	RDVEX	VRSEL Exclude Y, N
597	(255)	CHARACTER	6	RDCOMP_RAT	Compression ratio for the file in hundredths. Always showing 2 decimplaces
603	(25B)	CHARACTER	10	RDPHYS_SIZE	Actual amount of data on tape afte compression (factored)
613	(265)	CHARACTER	5	RDLRED	LASTREF extra days
618	(26A)	CHARACTER	1	RDWHILECATON	WHILECATALOG=ON Y,N
619	(26B)	CHARACTER	1	RDWHILECATUX	WHILECATALOG=UntilExpired Y,N@18A
620	(26C)	CHARACTER	0	RDRCEND	End of RDEXT

Table 15	Table 15. Constants for RDEXT					
Len	Туре	Value	Name	Description		
2	CHARACTER	МВ	RDFACTOR_MB			
2	CHARACTER	GB	RDFACTOR_GB			
2	CHARACTER	ТВ	RDFACTOR_TB			
10	CHARACTER		RDESB_UNDEFINED			
10	CHARACTER	CMD	RDESB_CMD			
10	CHARACTER	CMD_DEF	RDESB_CMD_DEF			
10	CHARACTER	CMD_VOLCAT	RDESB_CMD_VOLCAT			
10	CHARACTER	OCE_JFCB	RDESB_OCE_JFCB			
10	CHARACTER	OCE_EXIT	RDESB_OCE_EXIT			
10	CHARACTER	OCE_DEF	RDESB_OCE_DEF			
10	CHARACTER	OCE_MAX	RDESB_OCE_MAX			
10	CHARACTER	OCE_VOLCAT	RDESB_OCE_VOLCAT			
10	CHARACTER	LCS	RDESB_LCS			
10	CHARACTER	LCS_DEF	RDESB_LCS_DEF			
10	CHARACTER	TVEXTPURGE	RDESB_TVEXTPURGE			
10	CHARACTER	CNVT	RDESB_CNVT			
10	CHARACTER	EXPORT	RDESB_EXPORT			
10	CHARACTER	LASTREF	RDESB_LASTREF			
10	CHARACTER	OCE_MC	RDESB_OCE_MC			
10	CHARACTER	CATRETPD	RDESB_CATRETPD			
10	CHARACTER	CATLG_DAYS	RDESB_CATLG_DAYS			
10	CHARACTER	DEFTABLE	RDESB_DEFTABLE			

Table 16. Cross Reference for RDEXT						
Name	Offset	Hex Tag	Level			
RDABEND	166		3			
RDBESKEY	208		3			
RDBLKCNT	212		3			
RDBLKCNT_OLD	8A		3			
RDBLKSZ	84		3			
RDCAT	167		3			
RDCOMP	СО		3			
RDCOMP_RAT	255		3			
RDCPGM	181		3			
RDCRDATE	30		3			
RDCRSID	40		3			
RDCRTIME	3A		3			
RDCRTJBN	FD		3			
RDDCNAME	F5		3			
RDDDNAME	140		3			
RDDEFRET	1FB		3			
RDDELETED	169		3			
RDDSNAME	4		3			

EDGRDEXT

Table 16. Cross Reference for RDEXT (continued)			
Name	Offset	Hex Tag	Level
RDDSNSEQ	1DD		3
RDDSNSEQ_OLD	6E		3
RDDSSIZE	15C		3
RDESB	23A		3
RDEXPDT	1E7		3
RDEXPDTO	1F1		3
RDEXT	0		1
RDEXT1	0		2
RDEXT2	1DD		2
RDFACTOR	1FC		3
RDLABNO	1E2		3
RDLABNO_OLD	16C		3
RDLCDATE	48		3
RDLCSID	60		3
RDLCTIME	52		3
RDLCUID	58		3
RDLDDNM	1D1		3
RDLDEVN	1D9		3
RDLJOB	101		3
RDLPGM	1B9		3
RDLRDDAT	C1		3
RDLRECL	7E		3
RDLRED	265		3
RDLSTEP	109		3
RDLWTDAT	СВ		3
RDMCNAME	D5		3
RDMDMVID	154		3
RDOWNDSN	92		3
RDPERCENT	1AE		3
RDPHYS_SIZE	25B		3
RDRCEND	260		2
RDRECFM	76		3
RDRETDAT	13A		3
RDRSVMW1	16A		3
RDSCNAME	ED		3
RDSECLEV	9A		3
RDSECLNG	A2		3
RDSGNAME	E5		3
RDSIZE	1FE		3
RDSTEPNM	144		3
RDTOTAL_BLKCNT	226		3
RDTOTAL_BLKCNT_OLD	1A4		3
RDTYPE	0		3

Table 16. Cross Reference for RDEXT (continued)						
Name	Offset	Hex Tag	Level			
RDUCDATE	244		3			
RDUCTIME	24E		3			
RDUNITAD	72		3			
RDVEX	254		3			
RDVOLSEQ	7A		3			
RDVOLSER	68		3			
RDVRSJBN	132		3			
RDVRSNAM	106		3			
RDVRSR	168		3			
RDVRSSCH	170		3			
RDVRSTYP	105		3			
RDVRSVAL	DD		3			
RDVRSXDS	178		3			
RDWHILECATON	26A		3			
RDWHILECATUX	26B		3			
RD2VJBN	18A		3			
RD2VNME	182		3			
RD2VSCH	192		3			
RD2VXDS	19A		3			

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 50 for more information about the DFSMSrmm extract data set.

Table 17. Structure RHEXT						
Offset Dec	Offset Hex		Len	Name(Dim)	Description	
0	(0)	STRUCTURE	205	RHEXT		
0	(0)	CHARACTER	1	RHTYPE	Record type: C'H'	

Table 17. Structure RHEXT (continued)							
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
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 recor		
64	(40)	CHARACTER	8	RHCRSID	Create system ID of header record		
End o	f common f	ields					
104	(68)	CHARACTER	1	RHDATEFORM	Format of all dates in the extract file		
105	(69)	CHARACTER	1	RHEXTENDEDBIN	Extended bin enabled: Y, N		
106	(6A)	CHARACTER	9	RHTZ	Time zone offset +-HH:MM:SS		
115	(73)	CHARACTER	4	RHTZ_NAME	Time zone name or blank		
205	(CD)	CHARACTER	0	RHRCEND	End of RHEXT		

Table 18	Table 18. Constants for RHEXT						
Len	Туре	Value	Name	Description			
	Contants						
1	CHARACTER	Н	RHTYPEID				
1	CHARACTER		RHDATEFORM_NOTSET				
1	CHARACTER	Е	RHDATEFORM_EUROPEAN				
1	CHARACTER	Α	RHDATEFORM_AMERICAN				
1	CHARACTER	I	RHDATEFORM_ISO				
1	CHARACTER	J	RHDATEFORM_JULIAN				

Table 19. Cross Reference for RHEXT						
Name	Offset	Hex Tag	Level			
RHCRDATE	30		2			
RHCRSID	40		2			
RHCRTIME	3A		2			
RHDATEFORM	68		2			
RHEXT	0		1			
RHEXTENDEDBIN	69		2			
RHRCEND	CD		2			
RHTYPE	0		2			
RHTZ	6A		2			
RHTZ_NAME	73		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 50 for more information about the DFSMSrmm extract data set.

Common name: RMM Report Extract File VRS Record

Macro ID: EDGRKEXT
DSECT name: RKEXT
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: K

Storage attributes: Subpool: N/A Key: N/A Residency: N/A

Size: RKRCLNG
Created by: EDGHSKP
Pointed to by: Assembler - USING on RKEXT
PL/X - %INCLUDE EDGRKEXT Serialization: None Function: Maps the RMM report extract file VRS

record.

In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.

able 20. Str	ucture RKEXT		Г		<u> </u>	
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description	
0	(0)	STRUCTURE	246	RKEXT	Start of structure	
0	(0)	CHARACTER	1	RKTYPE	Record type C'K'	
1	(1)	CHARACTER	1	RKTYPE2	VRS type: one of V - volume, D - data set, N - name	
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	
thes	e fields a	CHARACTER	cord types	ommon processing of RKCRDATE	Create date of VRS record	
	. ,			-		
58	(3A)	CHARACTER	6	RKCRTIME	Create time of VRS record	
64	(40)	CHARACTER	8	RKCRSID	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 (HHMMSST) 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 rec	
End	of common	fields				
104	(68)	CHARACTER	8	RKCRTJBN	Job name mask	
112	(70)	CHARACTER	1	RKRETNC	Retain based on number of cycles: Y, N	
113	(71)	CHARACTER	1	RKRETND	Retain based on number of days: Y, N	
114	(72)	CHARACTER	1	RKRETNR	Retain based on number of days unreferenced: Y, N	
115	(73)	CHARACTER	1	RKRETNW	Retain while data set is cataloged: Y, N	
116	(74)	CHARACTER	1	RKRETNX	Retain until expired: Y, N	
117	(75)	CHARACTER	1	RKRETNXD	Retain based on extra days Since VRS matched: Y, N	

EDGRKEXT

Offset	Offset	Туре	Len	Name(Dim)	Description	
Dec	Hex				_	
118	(76)	CHARACTER	1	RKRETNCD	Retain based on BYDAYSCYCLE all copies on one day are treated as one cycle: Y, N	
119	(77)	CHARACTER	1	RKRETAND	Retention must be ANDed with the nex VRS in the chain: Y, N	
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 kep 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	
176	(B0)	CHARACTER	30	RKDESC	Description	
206	(CE)	CHARACTER	8	RKRELOPT	VRS release options	
206	(CE)	CHARACTER	1	RKRELIXD	Ignore expiration date: Y, N	
207	(CF)	CHARACTER	1	RKRELSI	Scratch immediate: Y, N	
214	(D6)	CHARACTER	10	RKLRDATE	Last reference date	
224	(E0)	CHARACTER	6	RKLRTIME	Last reference time	
230	(E6)	CHARACTER	10	RKUCDATE	Last "user" change date	
240	(F0)	CHARACTER	6	RKUCTIME	Last "user" change time (HHMMSS)	
246	(F6)	CHARACTER	0	RKRCEND	End of RKEXT	

Table 21	Table 21. Constants for RKEXT							
Len	Туре	Value	Name	Description				
1	CHARACTER	V	RKTYPVOL	Volume VRS				
1	CHARACTER	D	RKTYPDSN	Data set VRS				
1	CHARACTER	N	RKTYPNAM	Name VRS				
2	DECIMAL	246	RKRCLNG	Control block length				

Table 22. Cross Reference for RKEXT						
Name	Offset	Hex Tag	Leve 1			
RKCOUNT	8F		2			
RKCRDATE	30		2			
RKCRSID	40		2			
RKCRTIME	3A		2			
RKCRTJBN	68		2			
RKDELAY	99		2			

Table 22. Cross Reference for RKEXT (continued)	, ,		
Name	Offset	Hex Tag	Leve 1
RKDELDAT	A6		2
RKDESC	B0		2
RKDSNAME	3		2
RKDSNG	7D		2
RKEXT	0		1
RKGENKEY	2F		2
RKLCDATE	48		2
RKLCSID	60		2
RKLCTIME	52		2
RKLCUID	58		2
RKLOC	7F		2
RKLOCTYP	7E		2
RKLRDATE	D6		2
RKLRTIME	E0		2
RKNAME	3		3
RKNEXT	87		2
RKOWNER	9E		2
RKRCEND	F6		2
RKRELIXD	CE		3
RKRELOPT	CE		2
RKRELSI	CF		3
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
RKTYPE	0		2
RKTYPE2	1		2
RKUCDATE	E6		2
RKUCTIME	F0		2
RKVOLSER	3		

Extract data set owner record: EDGROEXT

EDGROEXT maps the owner record in the DFSMSrmm extract data set. See "Using the security report" on page 81 for more information about the DFSMSrmm extract data set.

Common name: RMM Extract File Owner Record

Macro ID: EDGROEXT DSECT name: ROEXT

Owning component: DFSMSrmm (DF186) Eye-catcher ID: 0

Storage attributes: Subpool: N/A

Key: N/A Residency: N/A

Size: See STRUCTURE length

Created by: EDGHSKP

Pointed to by: Assembler - USING on ROEXT
PL/X - %INCLUDE EDGROEXT

Serialization: None

Function: Maps the ROEXT structure to identify
the details within the RMM extract file

owner record.

In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.

Table 23. Structure ROEXT								
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description			
0	(0)	STRUCTURE	433	ROEXT				
0	(0)	CHARACTER	1	ROTYPE	Record type: C'O'			
4	(4)	CHARACTER	8	ROOWNER	Owner ID			
The co	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 fields 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	ROLCUID	Last change user ID of owner record			
96	(60)	CHARACTER	8	ROLCSID	Last change system ID of owner record			
End o	f common f	ields						
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 user ID			
340	(154)	CHARACTER	8	ROOWNNOD	Owner electronic node name			
348	(15C)	CHARACTER	6	ROOWNVOL	Total number of owned volumes			
354	(162)	CHARACTER	63	ROOWNEML	Owner email address			
417	(1A1)	CHARACTER	10	ROUCDATE	Last "user" change date			
427	(1AB)	CHARACTER	6	ROUCTIME	Last "user" change time (HHMMSS)			

Table 23. Structure ROEXT (continued)							
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
433	(1B1)	CHARACTER	0	RORCEND	End of ROEXT		

Table 24. Cross Reference for ROEXT						
Name	Offset	Hex Tag	Leve 1			
ROCRDATE	30		2			
ROCRSID	40		2			
ROCRTIME	3A		2			
ROEXT	0		1			
ROLCDATE	48		2			
ROLCSID	60		2			
ROLCTIME	52		2			
ROLCUID	58		2			
ROOWNAD1	В8		2			
ROOWNAD2	E0		2			
ROOWNAD3	108		2			
ROOWNDEP	90		2			
ROOWNEML	162		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	1B1		2			
ROTYPE	0		2			
ROUCDATE	1A1		2			
ROUCTIME	1AB		2			

Extract data set software product record: EDGRPEXT

EDGRPEXT maps the software product record in the DFSMSrmm extract data set. See "Using the security report" on page 81 for more information about the DFSMSrmm extract data set.

Common name: RMM Report Extract File Product Record

Macro ID: EDGRPEXT
DSECT name: RPEXT
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: P

Storage attributes: Subpool: N/A Key: N/A Residency: N/A

Size: See STRUCTURE length

Created by: EDGHSKP

Pointed to by: Assembler - USING on RPEXT
PL/X - %INCLUDE EDGRPEXT

Serialization: None Function: Maps the RMM report extract file product

record.

In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.

ıble 25. Str	ucture RPEXT	-				
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description	
0	(0)	STRUCTURE	192	RPEXT		
0	(0)	CHARACTER	1	RPTYPE	Record type - C'P'	
4	(4)	CHARACTER	8	RPPPNUM	Product number (NNNN-CCC)	
12	(C)	CHARACTER	6	RPVER	Version, release, modification number (vvrrmm): vv - version, rr - release mm - modification level	
The in t	he report	lds are in the sa	s allows co	n each record type ommon processing of		
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 reco	
96	(60)	CHARACTER	8	RPLCSID	Last change system ID of product record	
End	of common	fields				
104	(68)	CHARACTER	8	RPPPOWN	Product owner ID	
112	(70)	CHARACTER	30	RPPPNAME	Product name	
142	(8E)	CHARACTER	30	RPPPDESC	Product description	
172	(AC)	CHARACTER	4	RPVOLNO	Number of product volumes	
176	(B0)	CHARACTER	10	RPUCDATE	Last "user" change date	
186	(BA)	CHARACTER	6	RPUCTIME	Last "user" change time (HHMMSS)	
192	(CO)	CHARACTER	0	RPRCEND	End of RPEXT	

Table 26. Cross Reference for RPEXT					
Name	0ffset	Hex Tag	Leve 1		
RPCRDATE	30		2		
RPCRSID	40		2		

Table 26. Cross Reference for RPEXT (continued)						
Name	Offset	Hex Tag	Leve 1			
RPCRTIME	3A		2			
RPEXT	0		1			
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	СО		2			
RPTYPE	0		2			
RPUCDATE	В0		2			
RPUCTIME	BA		2			
RPVER	С		2			
RPVOLNO	AC		2			

Extract data set rack record: EDGRREXT

EDGRREXT maps the rack record in the DFSMSrmm extract data set. See <u>"Using the security report" on</u> page 81 for more information about the DFSMSrmm extract data set.

```
Common name: RMM Report Extract File Rack Number Record
Macro ID: EDGRREXT
DSECT name: RREXT
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: R
Storage attributes: Subpool: N/A
                       Key: N/A
                       Residency: N/A
Size: See STRUCTURE length
Created by: EDGHSKP
Pointed to by: Assembler - USING on RREXT
PL/X - %INCLUDE EDGRREXT
Serialization: None
Function: Maps the RMM report extract file rack
                      number record.
In this record the date format depends on the DATEFORM selected
by EDGHSKP execution parameter or the parmlib specified value.
```

Table 27. Str	Table 27. Structure RREXT							
Offset Dec	Offset Hex		Len	Name (Dim)	Description			
0	(0)	STRUCTURE	126	RREXT				
0	(0)	CHARACTER	1	RRTYPE	Record type - C'R'			
1	(1)	CHARACTER	1	RRTYPE2	Rack record ID: one of E - empty rack, F - free/scratch rack, U - in use rack			
4	(4)	CHARACTER	6	RRRACK	Rack number			
10	(A)	CHARACTER	8	RRNAME	Media name			
10	(A)	CHARACTER	8	RRUNIT	Old name for RRNAME field			

Table 27. Str	Table 27. Structure RREXT (continued)					
Offset Dec	Offset Hex		Len	Name(Dim)	Description	
The in t	he report	lds are in the sa	s allows co	n each record type mmmon processing of		
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	End of common fields					
104	(68)	CHARACTER	6	RRVOLSER	Assigned volume serial number	
110	(6E)	CHARACTER	10	RRUCDATE	Last "user" change date	
120	(78)	CHARACTER	6	RRUCTIME	Last "user" change time (HHMMSS)	
126	(7E)	CHARACTER	0	RRRCEND	End of RREXT	

Table 28	Table 28. Constants for RREXT						
Len	Туре	Value	Name	Description			
1	CHARACTER	Е	RRTYPEE	E - empty rack			
1	CHARACTER	F	RRTYPEF	F - free/scratch rack			
1	CHARACTER	U	RRTYPEU	U - in use rack			

Table 29. Cross Reference for RREXT			
Name	Offset	Hex Tag	Leve 1
RRCRDATE	30		2
RRCRSID	40		2
RRCRTIME	3A		2
RREXT	0		1
RRLCDATE	48		2
RRLCSID	60		2
RRLCTIME	52		2
RRLCUID	58		2
RRNAME	A		2
RRRACK	4		2
RRRCEND	7E		2
RRTYPE	0		2
RRTYPE2	1		2
RRUCDATE	6E		2
RRUCTIME	78		2
RRUNIT	A		3
RRVOLSER	68		2

Extract data set storage location bin record: EDGRSEXT

EDGRSEXT maps the storage location bin record in the DFSMSrmm extract data set. See "Using the security report" on page 81 for more information about the DFSMSrmm extract data set.

Table 30. Str	Table 30. Structure RSEXT					
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description	
0	(0)	STRUCTURE	144	RSEXT		
0	(0)	CHARACTER	1	RSTYPE	Record type C'S'	
1	(1)	CHARACTER	1	RSTYPE2	Bin record ID: one of E - empty bin, U - assigned bin	
2	(2)	CHARACTER	8	RSRMSTID	Storage location name	
11	(B)	CHARACTER	6	RSBINNO	Bin number	
17	(11)	CHARACTER	8	RSBMEDN	Bin media name	
The in t	t of commo common fie he report e fields a	on fields: clds are in the sa extract file. This cross multiple re	me place in s allows co cord types	n each record type ommon processing of		
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	Current volume	
110	(6E)	CHARACTER	6	RSMOVINGINVOL	Moving-in volume	
116	(74)	CHARACTER	6	RSMOVINGOUTVOL	Moving-out volume	
122	(7A)	CHARACTER	6	RSOLDVOL	Old volume	
128	(80)	CHARACTER	10	RSUCDATE	Last "user" change date	
138	(8A)	CHARACTER	6	RSUCTIME	Last "user" change time (HHMMSS)	
144	(90)	CHARACTER	0	RSRCEND	End of RSEXT	

EDGRVEXT

Table 31. Constants for RSEXT					
Len	Туре	Value	Name	Description	
1	CHARACTER	Е	RSTYPER	E - empty bin	
1	CHARACTER	U	RSTYPES	U - assigned bin	

Table 32. Cross Reference for RSEXT			
Name	Offset	Hex Tag	Leve 1
RSBINNO	В		2
RSBMEDN	11		2
RSCRDATE	30		2
RSCRSID	40		2
RSCRTIME	3A		2
RSEXT	0		1
RSLCDATE	48		2
RSLCSID	60		2
RSLCTIME	52		2
RSLCUID	58		2
RSMOVINGINVOL	6E		2
RSMOVINGOUTVOL	74		2
RSOLDVOL	7A		2
RSRCEND	90		2
RSRMSTID	2		2
RSTYPE	0		2
RSTYPE2	1		2
RSUCDATE	80		2
RSUCTIME	8A		2
RSVOLSER	68		2

Extract data set volume record: EDGRVEXT

EDGRVEXT maps the volume record in the DFSMSrmm extract data set. See <u>"Using the security report" on</u> page 81 for more information about the DFSMSrmm extract data set.

Common name: RMM Extract File Volume Record

Macro ID: EDGRVEXT DSECT name: RVEXT

Owning component: DFSMSrmm (DF186)

Eye-catcher ID: V

Storage attributes: Subpool: N/A
Key: N/A

Residency: N/A

Size: See STRUCTURE length

Created by: EDGHSKP

Pointed to by: Assembler - USING on RVEXT
PL/X - %INCLUDE EDGRVEXT

Serialization: None Function: Maps the RVEXT structure to identify

the details within the RMM extract file

volume record.

In this record the date format depends on the DATEFORM selected by EDGHSKP execution parameter or the parmlib specified value.

Section RVEXT1 contains the data elements which are copied to

section XVEXT1 of the extented (X) record as

one block.

Section RVEXT2 contains the data elements which are copied to

section XXMERGED of the extented (X) record on field level.

Table 33. Structure RVEXT

Table 55. 5th	Table 55. Strategic NVEXT						
Offset Dec	Offset Hex		Len	Name(Dim)	Description		
0	(0)	STRUCTURE	1106	RVEXT			
0	(0)	CHARACTER	796	RVEXT1	First data section		
0	(0)	CHARACTER	1	RVTYPE	Record type: C'V'		
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	RVSTVOL	Stacked volume serial number		

RVMDMVID: Is a unique token assigned to every volume and every

data set in a multi volume set.

28	(1C)	CHARACTER	8	RVMDMVID	Multi data set multi volume ID
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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 fields 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	RVEXPDT0	Expiration date - original
114	(72)	CHARACTER	10	RVEXPDT	Expiration date - current
124	(7C)	CHARACTER	4	RVDEN	Recording density
128	(80)	CHARACTER	1	RVCOMP	Compaction used: Y, N
129	(81)	CHARACTER	4	RVDSNNO_OLD	Number of data sets on volume <=9999

ffset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex				
133	(85)	CHARACTER	10	RVTUSE	Tape usage in kilobytes
143	(8F)	CHARACTER	4	RVUSE_OLD	Volume use count <=9999, a -1 valuindicates to use RVAPPUSE
147	(93)	CHARACTER	4	RVLABNO1_OLD	Label number of first file <=9999
151	(97)	CHARACTER	8	RVSTORID	Current location name, one of: SHI LOCAL, REMOTE, DISTANT, installat defined store, SMS-defined librar name
159	(9F)	CHARACTER	8	RVDEST	Destination name, one of: SHELF, LOCAL, REMOTE, DISTANT, installat: defined store, SMS-defined library name
Bin Num	sto num loc If sto num	rage location, RV ber and RVOBIN th ation.	STBIN conta e bin numbe g (RVTRANS: STBIN conta	RANS=N), and is in a sins the current biner in the previous EY), and moving to a sins the target biner in the source	
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
Thes	o scratch	are set each time status.	a volume d	changes either from	
235	(EB)	CHARACTER	10	RVASDATE	Assigned date
245	(F5)	CHARACTER	6	RVASTIME	Assigned time (HHMMSS)
251	(FB)	CHARACTER	8	RVOWNID	Volume owner user ID
259	(103)	CHARACTER	8	RVCRUID	Creating user ID
267	(10B)	CHARACTER	8	RVCRJOB	Creating job name
275	(113)	CHARACTER	8	RVSECLEV	Security level - short
283	(11B)	CHARACTER	30	RVSECLNG	Security level - long
313	(139)	CHARACTER	4	RVVOLSEQ	Volume sequence number
	(13D)	CHARACTER	8	RVSTATUS	Volume status, one of: MASTER, US SCRATCH, INIT, ENTRY
317			i	RVPENDRS	Volume pending release: Y, N
317 325	(145)	CHARACTER	1		
	(145) (146)	CHARACTER	1	RVVRS	Volume retained by VRS: Y, N
325				RVVRS RVLOAN	Volume retained by VRS: Y, N Volume on load: Y, N
325 326	(146)	CHARACTER	1		•
325 326 327	(146) (147)	CHARACTER CHARACTER	1	RVLOAN	Volume on load: Y, N

ffset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex				
331	(14B)	CHARACTER	1	RVPPTAPE	Program product tape: Y, N
Labels	types ma been use informat	y be written on t d, the volume may	he volume. no longer ut beyond	ion about what label If BLP output has match this the first file on a	
332	(140)	CHARACTER	3	RVLABEL	Label type: SL, AL, NL, SUL, AUL
335	(14F)	CHARACTER	1	RVBLP	Volume last written BLP: Y, N
Releas	set not		hen it is :	t the actions to be celeased. These are /ACTION for the	
336	(150)	CHARACTER	8	RVRETS	Return action: OWNER, SCRATCH
344	(158)	CHARACTER	1	RVREPL	Replace on release: Y, N
345	(159)	CHARACTER	1	RVINIT	Reinitialize: 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_OLD	Temporary read errors <=9999
370	(172)	CHARACTER	4	RVTWERR_OLD	Temporary write errors <=9999
374	(176)	CHARACTER	4	RVPRERR_OLD	Permanent read errors <=9999
378	(17A)	CHARACTER	4	RVPWERR_OLD	Permanent write errors <=9999
Produc	t Informat	ion: Includes num	ber, relea	se and feature code	
382	(17E)	CHARACTER	8	RVPPNUM	Program product number
390	(186)	CHARACTER	6	RVVER	Version / release / modification level
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	Authorized user IDs area
569	(239)	CHARACTER	8	RVHLOC	Home location name
577	(241)	CHARACTER	1	RVTRANS	Volume in transit: Y, N
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, manual, S-store, blank
580	(244)	CHARACTER	8	RVOLOC	Previous location name
588	(24C)	CHARACTER	8	RVSGNAME	Storage group name

Offset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex				
596	(254)	CHARACTER	8	RVMEDREC	Volume recording format, one of: *, 18TRACK, 36TRACK, 128TRACK, 256TRACK 384TRACK, EFMT1, EFMT2, EEFMT2, EFMT3, EEFMT3, EFMT4, OR EEFMT4
604	(25C)	CHARACTER	8	RVMEDTY	Volume media type, one of: *, CST, ECCST, HPCT, EHPCT, MEDIA5 - ETC, MEDIA6 - EWTC, MEDIA7 - EETC, MEDIA8 - EEWTC, MEDIA9 - EXTC, MEDIA10 - EXWTC MEDIA13 - EAETC
612	(264)	CHARACTER	8	RVMEDCMP	Compaction technique, one of: *, NONE, YES
620	(26C)	CHARACTER	8	RVMEDATR	Special attributes: NONE, RDCOMPAT
628	(274)	CHARACTER	44	RVDSNAM1	First file data set name
672	(2A0)	CHARACTER	1	RVMVMODE	Move mode: A-automove, M-manualmove
673	(2A1)	CHARACTER	1	RVDSNREC	Data set recording: Y, N
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	for	The following fi the volume. See	RVRETS for	the actions required	Last used drive
	for whe	the volume. See	RVRETS for released.	the actions required the actions set	
704	for whe (200)	the volume. See n the volume is r	RVRETS for celeased.	the actions required the actions set RVACTION	Pending actions:
704 704	(2C0)	the volume. See n the volume is r CHARACTER	RVRETS for released.	the actions required the actions set RVACTION RVACTSCR	Pending actions: Return to scratch: Y, N
704 704 705	(2C0) (2C0) (2C1)	CHARACTER CHARACTER CHARACTER	RVRETS for eleased.	the actions required the actions set RVACTION RVACTSCR RVACTREP	Pending actions: Return to scratch: Y, N Replace volume: Y, N
704 704 705 706	(2C0) (2C1) (2C2)	CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	RVRETS for released.	RVACTION RVACTSCR RVACTREP RVACTRET	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N
704 704 705 706 707	(2C0) (2C0) (2C1) (2C2) (2C3)	CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	RVRETS for eleased.	RVACTION RVACTSCR RVACTREP RVACTRET	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N
704 704 705 706 707 708	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4)	CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	RVRETS for released.	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N
704 704 705 706 707 708 709	for whe (200) (200) (201) (202) (203) (204) (205)	CHARACTER	RVRETS for eleased.	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA RVACTROT	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N
704 704 705 706 707 708 709 710	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5)	CHARACTER	8 1 1 1 1 1 1 2	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA RVACTRSV	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved
704 704 705 706 707 708 709	for whe (200) (200) (201) (202) (203) (204) (205)	CHARACTER	RVRETS for eleased.	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA RVACTROT	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N
704 704 705 706 707 708 709 710	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8)	CHARACTER	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RVACTION RVACTSCR RVACTREP RVACTRET RVACTRINI RVACTERA RVACTREA RVACTREV RVACTREV RVACTREV RVACTREV	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank
704 704 705 706 707 708 709 710 712 713	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8)	CHARACTER	RVRETS for released.	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA RVACTRSV RVACTRSV RVABEND RVHOMTYP	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank Next location type, one of: A-AUTO,
704 704 705 706 707 708 709 710 712 713	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8) (2C9)	CHARACTER	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RVACTION RVACTSCR RVACTREP RVACTRET RVACTRINI RVACTERA RVACTRSV RVACTRSV RVABEND RVHOMTYP RVNEXTYP	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank Next location type, one of: A-AUTO, M-MANUAL, S-STORE, blank
704 704 705 706 707 708 709 710 712 713 714	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8) (2C9) (2CA)	CHARACTER	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA RVACTRSV RVACTRSV RVABEND RVHOMTYP RVNEXTYP	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank Next location type, one of: A-AUTO, M-MANUAL, S-STORE, blank Volume type
704 704 705 706 707 708 709 710 712 713 714 715 716	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8) (2C9) (2CA)	CHARACTER	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RVACTION RVACTSCR RVACTREP RVACTRET RVACTRINI RVACTERA RVACTRSV RVABEND RVHOMTYP RVNEXTYP RVVOLTYPE RVVRSREL	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank Next location type, one of: A-AUTO, M-MANUAL, S-STORE, blank Volume type VRS release options:
704 704 705 706 707 708 709 710 712 713 714 715 716 716	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8) (2C9) (2CA) (2CB) (2CC)	CHARACTER	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA RVACTRSV RVACTRSV RVABEND RVHOMTYP RVNEXTYP RVVOLTYPE RVVRSREL RVRELIXD	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank Next location type, one of: A-AUTO, M-MANUAL, S-STORE, blank Volume type VRS release options: Ignore expiration date: Y, N
704 704 705 706 707 708 709 710 712 713 714 715 716 716 717	(2C0) (2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8) (2C9) (2CA) (2CB) (2CC) (2CC)	CHARACTER	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RVACTION RVACTSCR RVACTREP RVACTRET RVACTRINI RVACTERA RVACTRSV RVABEND RVHOMTYP RVNEXTYP RVVOLTYPE RVVRSREL RVRELIXD RVRELISI	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank Next location type, one of: A-AUTO, M-MANUAL, S-STORE, blank Volume type VRS release options: Ignore expiration date: Y, N Scratch immediate Y, N
704 704 705 706 707 708 709 710 712 713 714 715 716 716 717 718	(2C0) (2C1) (2C2) (2C3) (2C4) (2C5) (2C6) (2C8) (2C9) (2CA) (2CB) (2CC) (2CC) (2CD)	CHARACTER	8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RVACTION RVACTSCR RVACTREP RVACTRET RVACTINI RVACTERA RVACTRSV RVABEND RVHOMTYP RVNEXTYP RVVOLTYPE RVVRSREL RVRELIXD RVRELRSV	Pending actions: Return to scratch: Y, N Replace volume: Y, N Return to owner: Y, N Initialize: Y, N Erase: Y, N Notify: Y, N Reserved Data set closed by ABEND: Y, N Home location type, one of: A-AUTO, M-MANUAL, blank Next location type, one of: A-AUTO, M-MANUAL, S-STORE, blank Volume type VRS release options: Ignore expiration date: Y, N Scratch immediate Y, N Reserved

ffset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex	3100		,	
744	(2E8)	CHARACTER	10	RVCAPACITY	Volume capacity in megabytes RVCAPACITY is factored
754	(2F2)	CHARACTER	1	RVRBYSET	Volume is retained by set: Y, N
755	(2F3)	CHARACTER	1	RVSTACKVOL_ENABLED	Stacked volume records enabled and synchronized
756	(2F4)	CHARACTER	8	RVEXPTOKEN	Export token, unique value created at start of export to a new stacke volume
764	(2FC)	CHARACTER	10	RVSTACKED_VOLCOUNT	Count of volumes stacked on a volu
774	(306)	CHARACTER	3	RVPERCENT	Volume percentage full
777	(309)	CHARACTER	5	RVDSNNO	Number of data sets on volume
782	(30E)	CHARACTER	5	RVLABN01	Label number of first file
787	(313)	CHARACTER	8	RVDCRSID	First file creation system ID
796	(31C)	CHARACTER	310	RVEXT2	Second data section
796	(31C)	CHARACTER	6	RVDESTBIN	Destination bin number
802	(322)	CHARACTER	8	RVDESTBINMEDIA	Destination bin media number
810	(32A)	CHARACTER	6	RVV0L1	VOL1 label volser
816	(330)	CHARACTER	8	RVVENDOR	Vendor information
824	(338)	CHARACTER	24	RVWWID	Unique world wide ID
848	(350)	CHARACTER	5	RVVWMC	Write mount count
853	(355)	CHARACTER	5	RVTRERR	Temporary read errors
858	(35A)	CHARACTER	5	RVTWERR	Temporary write errors
863	(35F)	CHARACTER	5	RVPRERR	Permanent read errors
868	(364)	CHARACTER	5	RVPWERR	Permanent write errors
		ese fields may co		intable characters.	
873	(369)		64	RVKEYLABEL1	Encryption key label 1
937		CHARACTER	5		Encryption encoding method 1
942	(3AE)	CHARACTER	64	RVKEYLABEL2	Encryption key label 2
1006	(3EE)	CHARACTER	5	RVKEYENCOD2	Encryption encoding method 2
1011	(3F3)	CHARACTER	8	RVMEDINF	Media information
1019	(3FB)	CHARACTER	1	RVIRMMUSE	IRMM use: Y, N
1020	(3FC)	CHARACTER	1	RVWORM	WORM: Y, N
1021	(3FD)	CHARACTER	2	RVFACTOR	Space/size factor, applies to RVCAPACITY, RVAPPUSE, RVPhys_Used
1023	(3FF)	CHARACTER	10	RVAPPUSE	Data written, RVAPPUSE is factored
1033	(409)	CHARACTER	5	RVUSE	Volume use count
1038	(40E)	CHARACTER	1	RVHOLD	Volume hold: Y, N
1030	(40F)	CHARACTER	10	RVESB	Expdt set by
1038		CHARACTER	10	RVUCDATE	Last "user" change date
	(419)				
1039	(419)	CHARACTER	6	RVUCTIME	Last "user" change time (HHMMSS)
1039 1049		CHARACTER CHARACTER	6 5	RVUCTIME RVRETMET	Last "user" change time (HHMMSS) Retention Method

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Table 33. Structure RVEXT (continued)					
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
1080	(438)	CHARACTER	6	RVCOMP_RAT	Compression ratio for the volume in hundredths. Always showing 2 decimal places.
1086	(43E)	CHARACTER	10	RVPHYS_USED	Actual space used by all files after compaction (FACTORED)
1096	(448)	CHARACTER	9	RVEXRB	EXPDT RetainBy
1105	(451)	CHARACTER	1	RVEDM	Volume EDM: Y, N
1106	(452)	CHARACTER	0	RVRCEND	End of RVEXT

able 34. Constants for RVEXT						
Len	Туре	Value	Name	Description		
	Contants					
1	CHARACTER	L	RVVOLTYPE_LOGICAL			
1	CHARACTER	Р	RVVOLTYPE_PHYSICAL			
1	CHARACTER	S	RVVOLTYPE_STACKED			
2	CHARACTER	МВ	RVFACTOR_MB			
2	CHARACTER	GB	RVFACTOR_GB			
2	CHARACTER	ТВ	RVFACTOR_TB			
10	CHARACTER		RVESB_UNDEFINED			
10	CHARACTER	CMD	RVESB_CMD			
10	CHARACTER	CMD_DEF	RVESB_CMD_DEF			
10	CHARACTER	CMD_VOLCAT	RVESB_CMD_VOLCAT			
10	CHARACTER	OCE_JFCB	RVESB_OCE_JFCB			
10	CHARACTER	OCE_EXIT	RVESB_OCE_EXIT			
10	CHARACTER	OCE_DEF	RVESB_OCE_DEF			
10	CHARACTER	OCE_MAX	RVESB_OCE_MAX			
10	CHARACTER	OCE_VOLCAT	RVESB_OCE_VOLCAT			
10	CHARACTER	LCS	RVESB_LCS			
10	CHARACTER	LCS_DEF	RVESB_LCS_DEF			
10	CHARACTER	TVEXTPURGE	RVESB_TVEXTPURGE			
10	CHARACTER	CNVT	RVESB_CNVT			
10	CHARACTER	EXPORT	RVESB_EXPORT			
10	CHARACTER	LASTREF	RVESB_LASTREF			
10	CHARACTER	OCE_MC	RVESB_OCE_MC			
10	CHARACTER	CATRETPD	RVESB_CATRETPD			
10	CHARACTER	CATLG_DAYS	RVESB_CATLG_DAYS			
10	CHARACTER	DEFTABLE	RVESB_DEFTABLE			
5	CHARACTER	VRSEL	RVRETMET_VRSEL			
5	CHARACTER	EXPDT	RVRETMET_EXPDT			
10	CHARACTER	UNDEFINED	RVRMSB_UNDEFINED			
10	CHARACTER	CMD	RVRMSB_CMD			
10	CHARACTER	CMD_DEF	RVRMSB_CMD_DEF			
10	CHARACTER	OCE_DEF	RVRMSB_OCE_DEF			

Table 34	Table 34. Constants for RVEXT (continued)						
Len	Туре	Value	Name	Description			
10	CHARACTER	OCE_EXIT	RVRMSB_OCE_EXIT				
10	CHARACTER	LCS_DEF	RVRMSB_LCS_DEF				
10	CHARACTER	CNVT	RVRMSB_CNVT				
10	CHARACTER	EXPORT_DEF	RVRMSB_EXPORT_DEF				
10	CHARACTER	INERS_DEF	RVRMSB_INERS_DEF				
10	CHARACTER	MC_ATTR	RVRMSB_MC_ATTR				
10	CHARACTER	DEFTABLE	RVRMSB_DEFTABLE				
9	CHARACTER	VOLUME	RVEXRB_VOLUME				
9	CHARACTER	FIRSTFILE	RVEXRB_FIRSTFILE				
9	CHARACTER	SET	RVEXRB_SET				

Table 35. Cross Reference for RVEXT							
Name	Offset	Hex Tag	Leve 1				
RVABEND	208		3				
RVACCINF	190		3				
RVACCLST	1D6		3				
RVACTERA	2C4		4				
RVACTINI	2C3		4				
RVACTION	200		3				
RVACTNOT	2C5		4				
RVACTREP	201		4				
RVACTRET	2C2		4				
RVACTRSV	2C6		4				
RVACTSCR	200		4				
RVALCUR	2A2		4				
RVALREQ	2A3		4				
RVALVERS	2A2		3				
RVAPPUSE	3FF		3				
RVASDATE	ЕВ		3				
RVASTIME	F5		3				
RVAUTIDS	109		3				
RVBLP	14F		3				
RVBMEDN	2A4		3				
RVCAPACITY	2E8		3				
RVCOMP	80		3				
RVCOMP_RAT	438		3				
RVCONTNR	2D4		3				
RVCONTNR_STV	2D4		4				
RVCRDATE	30		3				
RVCRJOB	108		3				
RVCRSID	40		3				
RVCRTIME	3A		3				
RVCRUID	103		3				

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Table 35. Cross Reference for RVEXT (continued) Name	Offset	Hex Tag	Leve
waiie	Uliset	nex rag	1
RVDCRSID	313		3
RVDEFRET	14A		3
RVDEN	7C		3
RVDEST	9F		3
RVDESTBIN	310		3
RVDESTBINMEDIA	322		3
RVDESTYP	243		3
RVDSNAM1	274		3
RVDSNNO	309		3
RVDSNNO_OLD	81		3
RVDSNREC	2A1		3
RVEDM	451		3
RVERASE	15 A		3
RVESB	40F		3
RVEXPDT	72		3
RVEXPDT0	68		3
RVEXPTOKEN	2F4		3
RVEXRB	448		3
RVEXT	0		1
RVEXT1	0		2
RVEXT2	310		2
RVFACTOR	3FD		3
RVFEAT	180		3
RVHLOC	239		3
RVHOLD	40E		3
RVHOMTYP	209		3
RVINIT	159		3
RVIRMMUSE	3FB		3
RVKEYENCOD1	3A9		3
RVKEYENCOD2	3EE		3
RVKEYLABEL1	369		3
RVKEYLABEL2	ЗАЕ		3
RVLABEL	14C		3
RVLABN01	30E		3
RVLABNO1_OLD	93		3
RVLCDATE	48		3
RVLCSID	60		3
RVLCTIME	52		3
RVLCUID	58		3
RVLOAN	147		3
RVLOCTYP	242		3
RVLONLOC	C7		3

Table 35. Cross Reference for RVEXT (continued)	Offset	Hex Tag	Leve
Name	UIISET	Hex Tag	Leve
RVLRDDAT	D7		3
RVLUDEV	2BC		3
RVLWTDAT	E1		3
RVMDMVID	10		3
RVMEDATR	26C		3
RVMEDCMP	264		3
RVMEDINF	3F3		3
RVMEDREC	254		3
RVMEDTY	250		3
RVMVMODE	2A0		3
RVMVSUSE	15 F		3
RVNAME	160		3
RVNEXTYP	2CA		3
RVNLOC	284		3
RVNTFY	15B		3
RVNVOL	10		3
RVOBIN	AD		3
RVOBMEDN	2AC		3
RVOCER	149		3
RVOLNLOC	CF		3
RVOLOC	244		3
RVOPEN	148		3
RVOWNAC	150		3
RVOWNID	FB		3
RVPENDRS	145		3
RVPERCENT	306		3
RVPHYS_USED	43E		3
RVPPNUM	17E		3
RVPPTAPE	148		3
RVPRERR	35F		3
RVPRERR_OLD	176		3
RVPVOL	A		3
RVPWERR	364		3
RVPWERR_OLD	17A		3
RVRACK	168		3
RVRBYSET	2F2		3
RVRCEND	452		2
RVRELIXD	200		4
RVRELRSV	2CE		4
RVRELSI	2CD		4
RVREPL	158		3
RVRETDAT	BD		3

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Name	Offset	Hex Tag	Leve
DUDETMET	420		1
RVRETMET	429		3
RVRETS	150		3
RVRMSB	42E		3
RVRQPRTY	2E4		3
RVSECLEV	113		3
RVSECLNG	118		3
RVSGNAME	240		3
RVSTACKED_VOLCOUNT	2FC		3
RVSTACKVOL_ENABLED	2F3		3
RVSTATUS	130		3
RVSTBIN	A7		3
RVSTDATE	B3		3
RVSTORID	97		3
RVSTVOL	16		3
RVTRANS	241		3
RVTRERR	355		3
RVTRERR_OLD	16E		3
RVTUSE	85		3
RVTWERR	35A		3
RVTWERR_OLD	172		3
RVTYPE	0		3
RVUCDATE	419		3
RVUCTIME	423		3
RVUNIT	160		4
RVUSE	409		3
RVUSE_OLD	8F		3
RVUSEFLD	1B8		3
RVUSERAC	15D		3
RVVENDOR	330		3
RVVER	186		3
RVVMUSE	15E		3
RVVOLSEQ	139		3
RVVOLSER	4		3
RVVOLTYPE	2CB		3
RVVOL1	32A		3
RVVRS	146		3
RVVRSREL	200		3
RVVWMC	350		3
RVWORM	3FC		3
RVWWID	338		3

Extract data set extended data set record: EDGRXEXT

EDGRXEXT maps the extended data set record in the DFSMSrmm extract data set. See "Using the extract data set" on page 50 for more information about the DFSMSrmm extract data set.

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Common name: RMM Extract File Extended Data Set Record
Macro ID: EDGRXEXT
DSECT name: RXEXT
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: X
Storage attributes: Subpool: N/A
                        Key: N/A
                        Residency: N/A
Size: See STRUCTURE length
Created by: EDGHSKP
Pointed to by: Assembler - USING on RXEXT
                        PL/X - %INCLUDE EDGRXEXT
Serialization: None
Function: Maps the RXEXT structure to identify
                       data set details plus its volume details
                       within the RMM extract file extended
                       record.
In this record the date format depends on the DATEFORM selected
by EDGHSKP execution parameter or the parmlib specified value.
The extended extract record is a combination of the data set
record and the belonging volume record with two additional data
XVMVDSNAM1 - first data set name of the volume set
XVVOLCNT - last volume sequence number of the volume set
The PL/X structure is divided into 5 parts on structure level 2: XVEXT1 - volume section 1: same as RVEXT1 in RVEXT, 796 bytes
 XVVOLCNT - generated data element for X record
 XDEXT1 - data set section 1: same as RDEXT1 in RDEXT, 477 bytes
 XVMVDSNAM1 - generated data element for X record
 XXMERGED - mixed data area for data elements from the sections
             RVEXT2 and RDEXT2
```

able 36. Str	ucture RXEXT	-					
Offset Dec	Offset Hex		Len	Name(Dim)	Description		
0	(0)	STRUCTURE	1772	RXEXT			
0	(0)	CHARACTER	796	XVEXT1	Section 1 of volume record		
0	(0)	CHARACTER	1	RXTYPE	Record type - C'X'		
4	(4)	CHARACTER	6	XVVOLSER	Volume serial number		
10	(A)	CHARACTER	6	XVPV0L	Previous volume in sequence		
16	(10)	CHARACTER	6	XVNVOL	Next volume in sequence		
22	(16)	CHARACTER	6	XVSTV0L	Stacked volume serial number		
XVMDMV	ID: Is a u data s	nique token assig et in a multi vol	ned to eve: ume set.	ry volume and every			
28	(10)	CHARACTER	8	XVMDMVID	Multi data set multi volume ID		
The c in th	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	XVCRDATE	Create date of volume record		
58	(3A)	CHARACTER	6	XVCRTIME	Create time of volume record (HHMMSS		
64	(40)	CHARACTER	8	XVCRSID	Create system ID of volume record		
72	(48)	CHARACTER	10	XVLCDATE	Last change date of volume record		

Offset	Offset	Type	Len	Name(Dim)	Description
Dec	Hex	Туре	Len	Name (Dim)	bescription
82	(52)	CHARACTER	6	XVLCTIME	Last change time of volume record (HHMMSS)
88	(58)	CHARACTER	8	XVLCUID	Last change user ID of volume recor
96	(60)	CHARACTER	8	XVLCSID	Last change system ID of volume record
104	(68)	CHARACTER	10	XVEXPDT0	Expiration date - original
114	(72)	CHARACTER	10	XVEXPDT	Expiration date - current
124	(7C)	CHARACTER	4	XVDEN	Recording density
128	(80)	CHARACTER	1	XVCOMP	Compaction used: Y, N
133	(85)	CHARACTER	10	XVTUSE	Tape usage in kilobytes, a -1 value indicates to use XVAPPUSE
143	(8F)	CHARACTER	4	XVUSE_OLD	Volume use count <=9999
151	(97)	CHARACTER	8	XVSTORID	Current location name, one of: SHEL LOCAL, REMOTE, DISTANT, installatio defined store, SMS-defined library name
159	(9F)	CHARACTER	8	XVDEST	Destination name, one of: SHELF, LOCAL, REMOTE, DISTANT, installatio defined store, SMS-defined library name
	loc If sto num loc	rage location, XV ber and XVOBIN the ation.	g (XVTRANS: STBIN conta e bin numbe	=Y), and moving to a ains the target bin er in the source	La.
	loc If sto num	ation. a volume is movin trage location, XV ber and XVOBIN th	g (XVTRANS: STBIN conta	=Y), and moving to a ains the target bin	
167	loc If sto num loc	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER	g (XVTRANS: STBIN conta e bin numba	eY), and moving to a ains the target bin er in the source	Store bin number
173	loc If sto num loc (A7)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER CHARACTER	g (XVTRANSS STBIN conta e bin numbe	=Y), and moving to a ains the target bin er in the source XVSTBIN	Old bin number
173 179	loc If sto num loc (A7) (AD) (B3)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER CHARACTER CHARACTER	g (XVTRANS: STBIN conta e bin numbe	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE	Old bin number Date stored
173 179 189	loc If sto num loc (A7) (AD) (B3) (BD)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER CHARACTER CHARACTER CHARACTER	g (XVTRANS: STBIN conta e bin number	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT	Old bin number Date stored Retention date calculated by VRS
173 179 189 199	(A7) (AD) (B3) (BD)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	g (XVTRANS: STBIN conta e bin number	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC	Old bin number Date stored Retention date calculated by VRS Loan location
173 179 189 199 207	loc If sto num loc (A7) (AD) (B3) (BD) (C7) (CF)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	g (XVTRANS: STBIN conta e bin number 6 6 10 10 8	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVOLNLOC	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location
173 179 189 199 207 215	(A7) (AD) (B3) (BD) (C7) (CF)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER	g (XVTRANS; STBIN contact bin number contact c	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVULNLOC	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read
173 179 189 199 207	loc If sto num loc (A7) (AD) (B3) (BD) (C7) (CF)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	g (XVTRANS; STBIN contact bin number contact c	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVOLNLOC	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location
173 179 189 199 207 215 225 Assign	(A7) (AD) (B3) (BD) (C7) (CF) (D7)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER d time: are set each time	g (XVTRANS; STBIN conta e bin number 6 6 6 10 10 8 8 10 10	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVULNLOC	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read
173 179 189 199 207 215 225 Assign	(A7) (A0) (B3) (BD) (C7) (CF) (D7) (E1)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER d time: are set each time	g (XVTRANS; STBIN contae bin number 6 6 10 10 8 8 10 10 a volume 6	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVLONLOC XVULNLOC XVLRDDAT XVLWTDAT	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read
173 179 189 199 207 215 225 Assign	(A7) (A0) (B3) (BD) (C7) (CF) (D7) (E1) ed date an se fields to scratch	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER characte	g (XVTRANS; STBIN contae bin number 6 6 10 10 8 8 10 10 a volume 6	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVOLNLOC XVLRDDAT XVLWTDAT Changes either from	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written
173 179 189 199 207 215 225 Assign The or	loc If sto num loc (A7) (AD) (B3) (BD) (C7) (CF) (D7) (E1) ed date an se fields to scratch (EB)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER	g (XVTRANSSTBIN contae bin number	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVOLNLOC XVLRDDAT XVLWTDAT Changes either from	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written Assigned date
173 179 189 199 207 215 225 Assign The or 235 245	loc If sto num loc (A7) (A7) (AB) (BB) (C7) (CF) (D7) (E1) ed date an se fields to scratch (EB) (F5)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER	g (XVTRANSSTBIN contae bin number	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVOLNLOC XVLRDDAT XVLWTDAT Changes either from XVASDATE XVASTIME XVOWNID	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written Assigned date Assigned time (HHMMSS)
173 179 189 199 207 215 225 Assign The or 235 245 251	loc If sto num loc (A7) (AD) (B3) (BD) (C7) (CF) (D7) (E1) ed date an se fields to scratch (EB) (F5) (FB)	ation. a volume is movin vage location, XV ber and XVOBIN the ation. CHARACTER	g (XVTRANS; STBIN contact to bin number to b	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVOLNLOC XVLRDDAT XVLWTDAT Changes either from XVASDATE XVASTIME XVOWNID	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written Assigned date Assigned time (HHMMSS) Volume owner user ID
173 179 189 199 207 215 225 Assign The or 235 245 251 259	loc If sto num loc (A7) (A7) (A0) (B3) (BD) (C7) (CF) (D7) (E1) ed date an se fields to scratch (EB) (F5) (FB) (103)	ation. a volume is movin rage location, XV ber and XVOBIN th ation. CHARACTER	g (XVTRANS; STBIN contact to bin number to b	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVULNLOC XVLRDDAT XVLWTDAT Changes either from XVASDATE XVASTIME XVOWNID XVCRUID XVCRUID	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written Assigned date Assigned time (HHMMSS) Volume owner user ID Creating user ID
173 179 189 199 207 215 225 Assign The or 235 245 251 259 267	loc If sto num loc (A7) (AD) (B3) (BD) (C7) (CF) (D7) (E1) (EB) (F5) (FB) (103) (10B)	ation. a volume is movin vage location, XV ber and XVOBIN the ation. CHARACTER	g (XVTRANS; STBIN cont; e bin number e bin n	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVULNLOC XVLRDDAT XVLWTDAT Changes either from XVASDATE XVASTIME XVOWNID XVCRUID XVCRUID	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written Assigned date Assigned time (HHMMSS) Volume owner user ID Creating user ID Creating job name
173 179 189 199 207 215 225 Assign The or 235 245 251 259 267 275	loc If sto num loc	ation. a volume is movin vage location, XV ber and XVOBIN thation. CHARACTER	g (XVTRANS; STBIN contact to bin number to b	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVULNLOC XVLRDDAT XVLWTDAT Changes either from XVASDATE XVASDATE XVASTIME XVOWNID XVCRUID XVCRUID XVCRJOB XVSECLEV	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written Assigned date Assigned time (HHMMSS) Volume owner user ID Creating user ID Creating job name Security level - short
173 179 189 199 207 215 225 Assign The or 235 245 251 259 267 275 283	loc If sto num loc	ation. a volume is movin rage location, XV ber and XVOBIN the ation. CHARACTER	g (XVTRANS; STBIN contact to bin number to b	=Y), and moving to a ains the target bin er in the source XVSTBIN XVOBIN XVSTDATE XVRETDAT XVLONLOC XVULNLOC XVLRDDAT XVLWTDAT Changes either from XVASDATE XVASDATE XVASTIME XVOWNID XVCRUID XVCRUID XVCRJOB XVSECLEV XVSECLEV XVSECLNG XVVOLSEQ	Old bin number Date stored Retention date calculated by VRS Loan location Previous loan location Date volume last read Date volume last written Assigned date Assigned time (HHMMSS) Volume owner user ID Creating user ID Creating job name Security level - short Security level - long

Offset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex	.,,,,,			
326	(146)	CHARACTER	1	XVVRS	Volume retained by VRS: Y, N
327	(147)	CHARACTER	1	XVLOAN	Volume on loan: Y, N
328	(148)	CHARACTER	1	XVOPEN	Volume is opened: Y, N
329	(149)	CHARACTER	1	XVOCER	Volume recorded by O/C/EOV: Y,
330	(14A)	CHARACTER	1	XVDEFRET	Parmlib default retention used to generate the volume expiration day, N
331	(14B)	CHARACTER	1	XVPPTAPE	Program product tape: Y, N
Labels	types ma been use informat	y be written on t d, the volume may	he volume. no longer	ion about what label If BLP output has match this file 1 on a volume	
332	(14C)	CHARACTER	3	XVLABEL	Label type: SL, AL, NL, SUL, AUL
335	(14F)	CHARACTER	1	XVBLP	Volume last written BLP: Y, N
Releas	set not		hen it is :	t the actions to be released. These are VACTION for the	
336	(150)	CHARACTER	8	XVRETS	Return action: OWNER, SCRATCH
344	(158)	CHARACTER	1	XVREPL	Replace on release: Y, N
345	(159)	CHARACTER	1	XVINIT	Reinitialize: Y, N
346	(15A)	CHARACTER	1	XVERASE	Security erase: Y, N
347	(15B)	CHARACTER	1	XVNTFY	Notify owner: Y, N
348	(15C)	CHARACTER	1	XVOWNAC	Owner access: R, U, A
349	(15D)	CHARACTER	1	XVUSERAC	User access: R, U
350	(15E)	CHARACTER	1	XVVMUSE	VM use: Y, N
351	(15F)	CHARACTER	1	XVMVSUSE	MVS use: Y, N
352	(160)	CHARACTER	8	XVNAME	Media name
352	(160)	CHARACTER	8	XVUNIT	Media name
360	(168)	CHARACTER	6	XVRACK	Rack number
	(16E)	CHARACTER	4	XVTRERR_OLD	Temporary read errors <=9999
366		CHARACTER		AVIRERK_OLD	Temporary read errors <-9999
366 370	(172)	CHARACTER		XVTWERR_OLD	Temporary write errors <=9999
	(172) (176)				· · ·
370		CHARACTER	4	XVTWERR_OLD	Temporary write errors <=9999
370 374 378	(176) (17A)	CHARACTER CHARACTER CHARACTER	4 4	XVTWERR_OLD XVPRERR_OLD	Temporary write errors <=9999 Permanent read errors <=9999
370 374 378	(176) (17A)	CHARACTER CHARACTER CHARACTER	4 4	XVTWERR_OLD XVPMERR_OLD XVPWERR_OLD se and feature code	Temporary write errors <=9999 Permanent read errors <=9999
370 374 378 Produc 382 390	(176) (17A) t Informat (17E) (186)	CHARACTER CHARACTER CHARACTER ion: Includes num CHARACTER CHARACTER	4 4 4 ber, releas 8 6	XVTWERR_OLD XVPRERR_OLD XVPWERR_OLD se and feature code XVPPNUM XVVER	Temporary write errors <=9999 Permanent read errors <=9999 Permanent write errors <=9999 Program product number Version / release / modification level
370 374 378 Produc	(176) (17A) t Informat (17E)	CHARACTER CHARACTER CHARACTER ion: Includes num CHARACTER	4 4 ber, releas 8 6	XVTWERR_OLD XVPRERR_OLD XVPWERR_OLD Se and feature code XVPPNUM XVVER XVFEAT	Temporary write errors <=9999 Permanent read errors <=9999 Permanent write errors <=9999 Program product number Version / release / modification level Feature code
370 374 378 Produc 382 390	(176) (17A) t Informat (17E) (186)	CHARACTER CHARACTER CHARACTER ion: Includes num CHARACTER CHARACTER	4 4 ber, releas 8 6 4	XVTWERR_OLD XVPRERR_OLD XVPWERR_OLD se and feature code XVPPNUM XVVER XVFEAT XVACCINF	Temporary write errors <=9999 Permanent read errors <=9999 Permanent write errors <=9999 Program product number Version / release / modification level Feature code Accounting information
370 374 378 Produce 382 390	(176) (17A) t Informat (17E) (186)	CHARACTER CHARACTER ion: Includes num CHARACTER CHARACTER CHARACTER CHARACTER	4 4 ber, releas 8 6 4	XVTWERR_OLD XVPRERR_OLD XVPWERR_OLD Se and feature code XVPPNUM XVVER XVFEAT	Temporary write errors <=9999 Permanent read errors <=9999 Permanent write errors <=9999 Program product number Version / release / modification level Feature code
370 374 378 Produce 382 390 396 400	(176) (17A) t Informat (17E) (186) (18C) (190)	CHARACTER CHARACTER CHARACTER ion: Includes num CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	4 4 ber, releas 8 6 4	XVTWERR_OLD XVPRERR_OLD XVPWERR_OLD se and feature code XVPPNUM XVVER XVFEAT XVACCINF	Temporary write errors <=9999 Permanent read errors <=9999 Permanent write errors <=9999 Program product number Version / release / modification level Feature code Accounting information
370 374 378 Product 382 390 396 400 440	(176) (17A) t Informat (17E) (186) (18C) (190) (1B8)	CHARACTER CHARACTER ion: Includes num CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	4 4 ber, releas 8 6 4 40 30	XVTWERR_OLD XVPRERR_OLD XVPWERR_OLD See and feature code XVPPNUM XVVER XVFEAT XVACCINF XVUSEFLD	Temporary write errors <=9999 Permanent read errors <=9999 Permanent write errors <=9999 Program product number Version / release / modification level Feature code Accounting information User description

	ucture RXEXT	· · ·		, (p:)	In
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
577	(241)	CHARACTER	1	XVTRANS	Volume in transit: Y, N
578	(242)	CHARACTER	1	XVLOCTYP	Location type, one of: A-Auto, M- Manual, S-Store, blank
579	(243)	CHARACTER	1	XVDESTYP	Destination type, one of: A-Auto, M-Manual, S-Store, blank
580	(244)	CHARACTER	8	XVOLOC	Previous location name
588	(24C)	CHARACTER	8	XVSGNAME	Storage group name
596	(254)	CHARACTER	8	XVMEDREC	Volume recording format, one of: *, 18TRACK, 36TRACK, 128TRACK, 256TRACK 384TRACK, EFMT1, EFMT2, EEFMT2, EFMT3, EEFMT3, EFMT4, EEFMT4
604	(25C)	CHARACTER	8	XVMEDTY	Volume media type, one of: *, CST, ECCST, HPCT, EHPCT, MEDIA5 - ETC, MEDIA6 - EWTC, MEDIA7 - EETC, MEDIA8 - EEWTC, MEDIA9 - EXTC, MEDIA10 - EXWTC, MEDIA11 - EATC, MEDIA12 - EAWTC, MEDIA13 - EAETC
612	(264)	CHARACTER	8	XVMEDCMP	Compaction technique, one of: *, NONE, YES
620	(26C)	CHARACTER	8	XVMEDATR	Special attributes: NONE, RDCOMPAT
628	(274)	CHARACTER	44	XVDSNAM1	First file data set name
672	(2A0)	CHARACTER	1	XVMVMODE	Move mode: A-Automove, M-Manualmove
673	(2A1)	CHARACTER	1	XVDSNREC	Data set recording: Y, N
674	(2A2)	CHARACTER	2	XVALVERS	ANSI label versions
674	(2A2)	CHARACTER	1	XVALCUR	Current label version
675	(2A3)	CHARACTER	1	XVALREQ	Required label version
676	(2A4)	CHARACTER	8	XVBMEDN	Bin media name
684	(2AC)	CHARACTER	8	XVOBMEDN	Old bin media name
692	(2B4)	CHARACTER	8	XVNLOC	Next location name
700	(2BC)	CHARACTER	4	XVLUDEV	Last used drive
Pendin	for	The following fi the volume. See the volume is r	XVRETS for	the actions required the actions set	
704	(200)	CHARACTER	8	XVACTION	Pending actions
704	(200)	CHARACTER	1	XVACTSCR	Return to scratch: Y, N
705	(201)	CHARACTER	1	XVACTREP	Replace volume: Y, N
706	(202)	CHARACTER	1	XVACTRET	Return to owner: Y, N
707	(2C3)	CHARACTER	1	XVACTINI	Initialize: Y, N
708	(2C4)	CHARACTER	1	XVACTERA	Erase: Y, N
709	(2C5)	CHARACTER	1	XVACTNOT	Notify: Y, N
710	(2C6)	CHARACTER	2	XVACTRSV	Reserved
712	(208)	CHARACTER	1	XVABEND	Data set closed by ABEND: Y, N
713	(209)	CHARACTER	1	XVHOMTYP	Home location type, one of: A-Auto, M-Manual, blank
, 13				XVNEXTYP	Next location type, one of: A-Auto,
714	(2CA)	CHARACTER	1	AVINEATTF	M-Manual, S-Store, blank
	(2CA)	CHARACTER	1		

Offset		l _		n (p:)	a
Dec	Offset Hex	Туре	Len	Name(Dim)	Description
716	(200)	CHARACTER	1	XVRELIXD	Ignore expiration data: Y, N
717	(2CD)	CHARACTER	1	XVRELSI	Scratch immediate: Y, N
718	(2CE)	CHARACTER	6	XVRELRSV	Reserved
724	(2D4)	CHARACTER	16	XVCONTNR	In container name
724	(2D4)	CHARACTER	6	XVCONTNR_STV	Stacked volume container
740	(2E4)	CHARACTER	4	XVRQPRTY	Movement priority
744	(2E8)	CHARACTER	10	XVCAPACITY	Volume capacity in megabytes XVCAPACITY is factored
754	(2F2)	CHARACTER	1	XVRBYSET	Volume is retained by set: Y, N
755	(2F3)	CHARACTER	1	XVSTACKVOL_ENABLED	Stacked volume records enabled and synchronized
756	(2F4)	CHARACTER	8	XVEXPTOKEN	Export token, unique value created at start of export to a new stacked volume
764	(2FC)	CHARACTER	10	XVSTACKED_VOLCOUNT	Count of volumes stacked on a volume
774	(306)	CHARACTER	3	XVPERCENT	Volume percentage full
777	(309)	CHARACTER	5	XVDSNNO	Number of data sets on volume
782	(30E)	CHARACTER	5	XVLABN01	Label number of first file
787	(313)	CHARACTER	8	XVDCRSID	First file creation system ID
796	(31C)	CHARACTER	4	XVVOLCNT	Last volume sequence number of a
					volume set
Start	of data s	et part section 1			
Start 800	of data s	et part section 1	477	XDEXT1	Data set section 1
		· -	477	XDEXT1 XDDSNAME	Data set section 1 Data set name
800	(320)	CHARACTER	477		
800 804	(320) (324)	CHARACTER CHARACTER	477	XDDSNAME XDCRDATE	Data set name
800 804 848	(320) (324) (350)	CHARACTER CHARACTER CHARACTER	477 44 10	XDDSNAME XDCRDATE	Data set name Create date of data set record Create time (HHMMSS) of data set
800 804 848 858	(320) (324) (350) (35A)	CHARACTER CHARACTER CHARACTER CHARACTER	477 44 10 6	XDDSNAME XDCRDATE XDCRTIME	Data set name Create date of data set record Create time (HHMMSS) of data set record
800 804 848 858	(320) (324) (350) (35A) (360)	CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	477 44 10 6	XDDSNAME XDCRDATE XDCRTIME XDCRSID	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record
800 804 848 858 864 872	(320) (324) (350) (35A) (360) (368)	CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	477 44 10 6 8 10	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data set
800 804 848 858 864 872 882	(320) (324) (350) (35A) (360) (368) (372)	CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER	477 44 10 6 8 10 6	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data set record Last change time (HHMMSS) of data set record
800 804 848 858 864 872 882 888	(320) (324) (350) (35A) (360) (368) (372) (378)	CHARACTER	477 44 10 6 8 10 6	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME XDLCTIME	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data set record Last change time (HHMMSS) of data set record Last change user ID of data set record Last change user ID of data set record
800 804 848 858 864 872 882 888	(320) (324) (350) (35A) (368) (368) (372) (378)	CHARACTER	477 44 10 6 8 10 6	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME XDLCTIME	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data set record Last change time (HHMMSS) of data set record Last change user ID of data set record Last change user ID of data set record
800 804 848 858 864 872 882 888 896	(320) (324) (350) (35A) (360) (368) (372) (378) (380)	CHARACTER	477 44 10 6 8 10 6 8 8	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME XDLCUID XDLCSID	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data ser record Last change user ID of data set record Last change user ID of data set record Last change system ID of data set record
800 804 848 858 864 872 882 888 896 End o	(320) (324) (350) (35A) (360) (368) (372) (378) (380) f common f	CHARACTER	477 44 10 6 8 10 6 8 8	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME XDLCUID XDLCSID XDLCSID XDUNITAD XDRECFM	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data set record Last change user ID of data set record Last change user ID of data set record Creating drive address
800 804 848 858 864 872 882 888 896 End o	(320) (324) (350) (35A) (360) (368) (372) (378) (380) f common f (392) (396)	CHARACTER	477 44 10 6 8 10 6 8 8	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME XDLCUID XDLCSID XDLCSID XDUNITAD XDRECFM	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data ser record Last change user ID of data set record Last change user ID of data set record Creating drive address Record format
800 804 848 858 864 872 882 888 896 End o	(320) (324) (350) (35A) (360) (368) (372) (378) (380) f common f (392) (396) (39A)	CHARACTER	477 44 10 6 8 10 6 8 8	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME XDLCUID XDLCSID XDUNITAD XDRECFM XDVOLSEQ	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data set record Last change user ID of data set record Last change user ID of data set record Creating drive address Record format Volume sequence number
800 804 848 858 864 872 882 888 896 End o 914 918 922	(320) (324) (350) (35A) (360) (368) (372) (378) (380) f common f (392) (396) (39A) (39E)	CHARACTER	477 44 10 6 8 10 6 8 8	XDDSNAME XDCRDATE XDCRTIME XDCRSID XDLCDATE XDLCTIME XDLCUID XDLCSID XDUNITAD XDRECFM XDVOLSEQ XDLRECL XDBLKSZ	Data set name Create date of data set record Create time (HHMMSS) of data set record Create system ID of data set record Last change date of data set record Last change time (HHMMSS) of data ser record Last change user ID of data set record Last change user ID of data set record Creating drive address Record format Volume sequence number Logical record length

	actare materia	(continued)			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
954	(3BA)	CHARACTER	8	XDSECLEV	Security level - short
962	(3C2)	CHARACTER	30	XDSECLNG	Security level - long
992	(3E0)	CHARACTER	1	XDCOMP	Compaction used: Y, N
993	(3E1)	CHARACTER	10	XDLRDDAT	Date data set last read
1003	(3EB)	CHARACTER	10	XDLWTDAT	Date data set last written
1013	(3F5)	CHARACTER	8	XDMCNAME	SMS management class
1021	(3FD)	CHARACTER	8	XDVRSVAL	VRS management value
1029	(405)	CHARACTER	8	XDSGNAME	SMS storage group name
1037	(40D)	CHARACTER	8	XDSCNAME	SMS storage class name
1045	(415)	CHARACTER	8	XDDCNAME	SMS data class name
1053	(41D)	CHARACTER	8	XDCRTJBN	Creating job name
1061	(425)	CHARACTER	1	XDVRSTYP	Matching VRS type, one of: D(Data set), S(SMSMC), V(VRSMV), M(Data set and VRSMV), C(Data set and SMSMC)
1062	(426)	CHARACTER	44	XDVRSNAM	Matching VRS name
1106	(452)	CHARACTER	8	XDVRSJBN	Matching VRS job name mask
1114	(45A)	CHARACTER	10	XDRETDAT	Retention date
1124	(464)	CHARACTER	8	XDSTEPNM	Creating step name
1132	(46C)	CHARACTER	8	XDDDNAME	Creating DD name
		with the number o	f blocks d:	ivided by 1024	
1148	(47C)	CHARACTER		XDDSSIZE	Approximate size of file in kilobytes
1148 1158	(47C) (486)		10		Approximate size of file in kilobytes Data set closed by ABEND: Y, N
1158	(486) Set to 'Y VOLSER by cataloged Set to 'N	CHARACTER CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when	10 1 ned after a catalog of et is recoaloged and	XDDSSIZE XDABEND allocation determines r when data set is rded in DFSMSrmm. now is not.	
1158	(486) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U	CHARACTER CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when	10 1 ned after a catalog of et is recoaloged and	XDDSSIZE XDABEND allocation determines r when data set is rded in DFSMSrmm. now is not.	
1158	Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog	CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when ed.	ned after a catalog o catalog and aloged and it was never	XDDSSIZE XDABEND allocation determines r when data set is rded in DFSMSrmm. now is not. er cataloged or	Data set closed by ABEND: Y, N
1158 XDCAT:	Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog	CHARACTER The either when opereference to the after the datas when it was catholic (unknown) when ed. CHARACTER	ned after a catalog o et is recoraloged and it was never	XDDSSIZE XDABEND allocation determines r when data set is rded in DFSMSrmm. now is not. er cataloged or	Data set closed by ABEND: Y, N Cataloged: Y, N, U
1158 XDCAT: 1159 1160	(486) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (487) (488)	CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when ed. CHARACTER CHARACTER	ned after a catalog o et is recoraloged and it was never	XDDSSIZE XDABEND allocation determines r when data set is reded in DFSMSrmm. now is not. er cataloged or XDCAT XDVRSR	Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N
1158 XDCAT: 1159 1160 1161 1162	(486) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (487) (488) (489)	CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when ed. CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER This is the r primary VRS c	ned after a catalog or catalog of and it was never the catalog of	XDDSSIZE XDABEND allocation determines r when data set is rded in DFSMSrmm. now is not. er cataloged or XDCAT XDVRSR XDDELETED	Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N
1158 XDCAT: 1159 1160 1161 1162	(486) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (487) (488) (489)	CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when ed. CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER This is the r primary VRS c	ned after a catalog or catalog of and it was never the catalog of	XDDSSIZE XDABEND allocation determines r when data set is reded in DFSMSrmm. now is not. er cataloged or XDCAT XDVRSR XDDELETED XDRSVMW1 RS in the matching s set only if retained	Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N
1158 XDCAT: 1159 1160 1161 1162 Primary	(486) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (487) (488) (489) (48A) y VRS subc	CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when ed. CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER CHARACTER hain name: This is the r primary VRS c by a NAME VRS	ned after a catalog or catalog or aloged and it was never the second of	XDDSSIZE XDABEND allocation determines r when data set is reded in DFSMSrmm. now is not. er cataloged or XDCAT XDVRSR XDDELETED XDRSVMW1 RS in the matching s set only if retained in the primary VRS.	Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N Reserved
1158 XDCAT: 1159 1160 1161 1162 Primary 1168 1176	(486) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (487) (488) (489) (48A) y VRS subce (490) (498)	CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when ed. CHARACTER	10 1 ned after a catalog or catalog or catalog or catalog or catalog and it was never the catalog or catalog o	XDDSSIZE XDABEND allocation determines r when data set is reded in DFSMSrmm. now is not. er cataloged or XDCAT XDVRSR XDDELETED XDRSVMW1 RS in the matching s set only if retained in the primary VRS. XDVRSSCH XDVRSXDS	Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N Reserved Primary VRS subchain name
1158 XDCAT: 1159 1160 1161 1162 Primary 1168 1176	(486) Set to 'Y VOLSER by cataloged Set to 'N Set to 'U uncatalog (487) (488) (489) (48A) y VRS subce (490) (498)	CHARACTER ' either when ope reference to the after the data s ' when it was cat ' (unknown) when ed. CHARACTER This is the r primary VRS c by a NAME VRS CHARACTER CHARACTER This is the r primary VRS c by a NAME VRS CHARACTER CHARACTER This is the r primary VRS c by a NAME VRS CHARACTER CHARACTER This is the r primary VRS c by a NAME VRS CHARACTER This is the r primary VRS c by a NAME VRS CHARACTER This is the r primary VRS c by a NAME VRS CHARACTER This is the r primary VRS c by a NAME VRS CHARACTER	10 1 ned after a catalog or catalog or catalog or catalog or catalog and it was never the catalog or catalog o	XDDSSIZE XDABEND allocation determines rewhen data set is reded in DFSMSrmm. now is not. er cataloged or XDCAT XDVRSR XDDELETED XDRSVMW1 RS in the matching set only if retained in the primary VRS. XDVRSSCH XDVRSXDS	Data set closed by ABEND: Y, N Cataloged: Y, N, U Retained by VRS: Y, N Deleted by disposition: Y, N Reserved Primary VRS subchain name

Offset	Offset	Type	l en	Name(Dim)	Description
Dec	Hex	Турс	2011	Hame (Billy)	Jesser person
1202	(4B2)	CHARACTER	8	XD2VSCH	Secondary VRS subchain name
1210	(4BA)	CHARACTER	10	XD2VXDS	Secondary VRS subchain start date
1220	(4C4)	CHARACTER	10	XDTOTAL_BLKCNT_OLD	Total block count across this and previous volumes
1230	(4CE)	CHARACTER	3	XDPERCENT	Percentage of volume used by data s
1233	(4D1)	CHARACTER	8	XDCPGM	Creating program name
1241	(4D9)	CHARACTER	8	XDLPGM	Last use program name
1249	(4E1)	CHARACTER	8	XDLJOB	Last use job name
1257	(4E9)	CHARACTER	8	XDLSTEP	Last use step name
1265	(4F1)	CHARACTER	8	XDLDDNM	Last use DD name
1273	(4F9)	CHARACTER	4	XDLDEVN	Last use device number
End o	f data set	part section 1			
1277	(4FD)	CHARACTER	44	XVMVDSNAM1	First data set name of a volume set
Start	of mixed			d section 2 and from ord section 2	
1321	(529)	CHARACTER	451	XXMERGED	Mixed area
1321	(529)	CHARACTER	5	XDDSNSEQ	Data set sequence number
1326	(52E)	CHARACTER	5	XDLABNO	Label number LABEL=(xx,ll)
1331	(533)	CHARACTER	6	XVDESTBIN	Destination bin number
1337	(539)	CHARACTER	8	XVDESTBINMEDIA	Destination bin media name
1345	(541)	CHARACTER	6	XVV0L1	VOL1 label volume serial number
1351	(547)	CHARACTER	10	XDEXPDT	Data set expiration date
1361	(551)	CHARACTER	10	XDEXPDT0	Original data set expiration date
1371	(55B)	CHARACTER	1	XDDEFRET	Default RETPD used
1372	(55C)	CHARACTER	8	XVVENDOR	Vendor information
1380	(564)	CHARACTER	24	XVWWID	Unique world wide ID
1404	(57C)	CHARACTER	5	XVVWMC	Write mount count
1409	(581)	CHARACTER	5	XVTRERR	Temporary read errors
1414	(586)	CHARACTER	5	XVTWERR	Temporary write errors
1419	(58B)	CHARACTER	5	XVPRERR	Permanent read errors
1424	(590)	CHARACTER	5	XVPWERR	Permanent write errors
XvKey	Label1/XvK Th		ntain unpr	intable characters.	
1429	(595)	CHARACTER	64	XVKEYLABEL1	Encryption key label 1
1493	(5D5)	CHARACTER	5	XVKEYENCOD1	Encryption key encoding method
1498	(5DA)	CHARACTER	64	XVKEYLABEL2	Encryption key label 2
1562	(61A)	CHARACTER	5	XVKEYENCOD2	Encryption key encoding method
1567	(61F)	CHARACTER	8	XVMEDINF	Media information
1575	(627)	CHARACTER	1	XVIRMMUSE	IRMM use: Y, N

Table 36. Stru	cture RXEXT	(continued)			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
1577	(629)	CHARACTER	2	XVFACTOR	Space/size factor, applies to XVCAPACITY, XVAPPUSE, XDSIZE XVPhys_Used, XDPhys_size
1579	(62B)	CHARACTER	10	XVAPPUSE	Data written, XVAPPUSE is factored
1589	(635)	CHARACTER	5	XVUSE	Volume use count
1594	(63A)	CHARACTER	10	XDSIZE	Size of file, XDSIZE is factored
1604	(644)	CHARACTER	10	XDBESKEY	BES key index
1614	(64E)	CHARACTER	20	XDBLKCNT	Block count
1634	(662)	CHARACTER	20	XDTOTAL_BLKCNT	Total block count across all volumes
1654	(676)	CHARACTER	1	XVHOLD	Volume hold: Y, N
1655	(677)	CHARACTER	10	XVESB	Expdt set by - of the volume
1665	(681)	CHARACTER	10	XDESB	Expdt set by - of the dataset@08A
1675	(68B)	CHARACTER	10	XVUCDATE	Volume last "user" change date
1685	(695)	CHARACTER	6	XVUCTIME	Volume last "user" change time (HHMMSS)
1691	(69B)	CHARACTER	10	XDUCDATE	Dataset last "user" change date
1701	(6A5)	CHARACTER	6	XDUCTIME	Dataset last "user" change time (HHMMSS)
1707	(6AB)	CHARACTER	1	XDVEX	VRSEL Exclude Y, N
1708	(6AC)	CHARACTER	5	XVRETMET	Retention Method
1713	(6B1)	CHARACTER	10	XVRMSB	Retention Method Set By
1723	(6BB)	CHARACTER	6	XVCOMP_RAT	Compression ratio for the volume in hundredths. Always showing 2 decimal places.
1729	(6C1)	CHARACTER	10	XVPHYS_USED	Actual space used by all files after compaction (FACTORED)
1739	(6CB)	CHARACTER	6	XDCOMP_RAT	Compression ratio for the file in hundredths. Always showing 2 decimal places
1745	(6D1)	CHARACTER	10	XDPHYS_SIZE	Actual amount of data on tape after compression (FACTORED)
1755	(6DB)	CHARACTER	5	XDLRED	LASTFREF extra days
1760	(6E0)	CHARACTER	9	XVEXRB	EXPDT retainby
1769	(6E9)	CHARACTER	1	XVEDM	Volume EDM: Y, N
1770	(6EA)	CHARACTER	1	XDWHILECATON	DSN WHILECATALOG=ON: Y, N
1771	(6EB)	CHARACTER	1	XDWHILECATUX	DSN WHILECATALOG=UX: Y, N
1772	(6EC)	CHARACTER	0	RXRCEND	End of RXEXT

Table 37	Table 37. Constants for RXEXT					
Len	Туре	Value	Name	Description		
	Contants					
1	CHARACTER	L	XVVOLTYPE_LOGICAL			
1	CHARACTER	Р	XVVOLTYPE_PHYSICAL			
1	CHARACTER	S	XVVOLTYPE_STACKED			
2	CHARACTER	МВ	XVFACTOR_MB			
2	CHARACTER	GB	XVFACTOR_GB			

Table 37	. Constants for R	XEXT (continued)		
Len	Туре	Value	Name	Description
2	CHARACTER	ТВ	XVFACTOR_TB	
10	CHARACTER		XESB_UNDEFINED	
10	CHARACTER	CMD	XESB_CMD	
10	CHARACTER	CMD_DEF	XESB_CMD_DEF	
10	CHARACTER	CMD_VOLCAT	XESB_CMD_VOLCAT	
10	CHARACTER	OCE_JFCB	XESB_OCE_JFCB	
10	CHARACTER	OCE_EXIT	XESB_OCE_EXIT	
10	CHARACTER	OCE_DEF	XESB_OCE_DEF	
10	CHARACTER	OCE_MAX	XESB_OCE_MAX	
10	CHARACTER	OCE_VOLCAT	XESB_OCE_VOLCAT	
10	CHARACTER	LCS	XESB_LCS	
10	CHARACTER	LCS_DEF	XESB_LCS_DEF	
10	CHARACTER	TVEXTPURGE	XESB_TVEXTPURGE	
10	CHARACTER	CNVT	XESB_CNVT	
10	CHARACTER	EXPORT	XESB_EXPORT	
10	CHARACTER	LASTREF	XESB_LASTREF	
10	CHARACTER	OCE_MC	XESB_OCE_MC	
10	CHARACTER	CATRETPD	XESB_CATRETPD	
10	CHARACTER	CATLG_DAYS	XESB_CATLG_DAYS	
10	CHARACTER	DEFTABLE	XESB_DEFTABLE	
5	CHARACTER	VRSEL	XVRETMET_VRSEL	
5	CHARACTER	EXPDT	XVRETMET_EXPDT	
10	CHARACTER	UNDEFINED	XVRMSB_UNDEFINED	
10	CHARACTER	CMD	XVRMSB_CMD	
10	CHARACTER	CMD_DEF	XVRMSB_CMD_DEF	
10	CHARACTER	OCE_DEF	XVRMSB_OCE_DEF	
10	CHARACTER	OCE_EXIT	XVRMSB_OCE_EXIT	
10	CHARACTER	LCS_DEF	XVRMSB_LCS_DEF	
10	CHARACTER	CNVT	XVRMSB_CNVT	
10	CHARACTER	EXPORT_DEF	XVRMSB_EXPORT_DEF	
10	CHARACTER	INERS_DEF	XVRMSB_INERS_DEF	
10	CHARACTER	MC_ATTR	XVRMSB_MC_ATTR	
10	CHARACTER	DEFTABLE	XVRMSB_DEFTABLE	
9	CHARACTER	VOLUME	XVEXRB_VOLUME	
9	CHARACTER	FIRSTFILE	XVEXRB_FIRSTFILE	
9	CHARACTER	SET	XVEXRB_SET	

Table 38. Cross Reference for RXEXT					
Name	0ffset	Hex Tag	Level		
RXEXT	0		1		
RXRCEND	6EC		2		
RXTYPE	0		3		
XDABEND	486		3		

Table 38. Cross Reference for RXEXT (continued) Name	Offset	Hex Tag	Level
		nex rag	
XDBESKEY	644		3
XDBLKCNT	64E		
XDBLKCNT_OLD	3AA		3
XDBLKSZ	3A4		3
XDCAT	487		3
XDCOMP	3E0		3
XDCOMP_RAT	6CB		3
XDCPGM	4D1		3
XDCRDATE	350		3
XDCRSID	360		3
XDCRTIME	35A		3
XDCRTJBN	41D		3
XDDCNAME	415		3
XDDDNAME	46C		3
XDDEFRET	55B		3
XDDELETED	489		3
XDDSNAME	324		3
XDDSNSEQ	529		3
XDDSSIZE	47C		3
XDESB	681		3
XDEXPDT	547		3
XDEXPDTO	551		3
XDEXT1	320		2
XDLABNO	52E		3
XDLCDATE	368		3
XDLCSID	380		3
XDLCTIME	372		3
XDLCUID	378		3
XDLDDNM	4F1		3
XDLDEVN	4F9		3
XDLJ0B	4E1		3
XDLPGM	4D9		3
XDLRDDAT	3E1		3
XDLRECL	39E		3
XDLRED	6DB		3
XDLSTEP	4E9		3
XDLWTDAT	3EB		3
XDMCNAME	3F5		3
XDOWNDSN	3B2		3
XDPERCENT	4CE		3
XDPHYS_SIZE	6D1		3
XDRECFM	396		3
XDRETDAT	45A		3

Table 38. Cross Reference for RXEXT (continued) Name	Offset	Hex Tag	Level
		nex rag	
XDRSVMW1	48A 40D		3
XDSCNAME			
XDSECLEV	3BA		3
XDSECLNG	3C2		3
XDSGNAME	405		3
XDSIZE	63A		3
XDSTEPNM	464		3
XDTOTAL_BLKCNT	662		3
XDTOTAL_BLKCNT_OLD	404		3
XDUCDATE	69B		3
XDUCTIME	6A5		3
XDUNITAD	392		3
XDVEX	6AB		3
XDV0LSEQ	39A		3
XDVRSJBN	452		3
XDVRSNAM	426		3
XDVRSR	488		3
XDVRSSCH	490		3
XDVRSTYP	425		3
XDVRSVAL	3FD		3
XDVRSXDS	498		3
XDWHILECATON	6EA		3
XDWHILECATUX	6EB		3
XD2VJBN	4AA		3
XD2VNME	4A2		3
XD2VSCH	4B2		3
XD2VXDS	4BA		3
XVABEND	2C8		3
XVACCINF	190		3
XVACCLST	1D6		3
XVACTERA	2C4		4
XVACTINI	2C3		4
XVACTION	200		3
XVACTNOT	2C5		4
XVACTREP	2C1		4
XVACTRET	2C2		4
XVACTRSV	2C6		4
XVACTSCR	2C0		4
XVALCUR	2A2		4
XVALREQ	2A3		4
XVALVERS	2A2		3
XVAPPUSE	62B		3
XVASDATE	EB		3

Table 38. Cross Reference for RXEXT (continued) Name	Offset	Hex Tag	Level
XVASTIME	F5	nex rag	3
XVAUTIDS	109		3
XVBLP	145		3
XVBMEDN	2A4		3
	2A4 2E8		3
XVCAPACITY	80		3
XVCOMP PAT	6BB		3
XVCOMP_RAT	204		3
XVCONTNR			
XVCONTNR_STV	2D4		4
XVCRDATE	30		3
XVCRJOB	108		3
XVCRSID	40		3
XVCRTIME	3A		3
XVCRUID	103		3
XVDCRSID	313		3
XVDEFRET	14A		3
XVDEN	70		3
XVDEST	9F		3
XVDESTBIN	533		3
XVDESTBINMEDIA	539		3
XVDESTYP	243		3
XVDSNAM1	274		3
XVDSNNO	309		3
XVDSNREC	2A1		3
XVEDM	6E9		3
XVERASE	15A		3
XVESB	677		3
XVEXPDT	72		3
XVEXPDT0	68		3
XVEXPTOKEN	2F4		3
XVEXRB	6E0		3
XVEXT1	0		2
XVFACTOR	629		3
XVFEAT	180		3
XVHLOC	239		3
XVHOLD	676		3
XVHOMTYP	2C9		3
XVINIT	159		3
XVIRMMUSE	627		3
XVKEYENCOD1	5D5		3
XVKEYENCOD2	61A		3
XVKEYLABEL1	595		3
XVKEYLABEL2	5DA		3

Table 38. Cross Reference for RXEXT (continued)			
Name	Offset	Hex Tag	Level
XVLABEL	140		3
XVLABNO1	30E		3
XVLCDATE	48		3
XVLCSID	60		3
XVLCTIME	52		3
XVLCUID	58		3
XVLOAN	147		3
XVLOCTYP	242		3
XVLONLOC	C7		3
XVLRDDAT	D7		3
XVLUDEV	2BC		3
XVLWTDAT	E1		3
XVMDMVID	10		3
XVMEDATR	260		3
XVMEDCMP	264		3
XVMEDINF	61F		3
XVMEDREC	254		3
XVMEDTY	250		3
XVMVDSNAM1	4FD		2
XVMVMODE	2A0		3
XVMVSUSE	15F		3
XVNAME	160		3
XVNEXTYP	2CA		3
XVNLOC	2B4		3
XVNTFY	15B		3
XVNVOL	10		3
XVOBIN	AD		3
XVOBMEDN	2AC		3
XVOCER	149		3
XVOLNLOC	CF		3
XVOLOC	244		3
XVOPEN	148		3
XVOWNAC	15C		3
XVOWNID	FB		3
XVPENDRS	145		3
XVPERCENT	306		3
XVPHYS_USED	6C1		3
XVPPNUM	17E		3
XVPPTAPE	14B		3
XVPRERR	58B		3
XVPRERR_OLD	176		3
XVPVOL	А		3
XVPWERR	590		3

Table 38. Cross Reference for RXEXT (continued)	T I		
Name	Offset	Hex Tag	Level
XVPWERR_OLD	17A		3
XVRACK	168		3
XVRBYSET	2F2		3
XVRELIXD	200		4
XVRELRSV	2CE		4
XVRELSI	2CD		4
XVREPL	158		3
XVRETDAT	BD		3
XVRETMET	6AC		3
XVRETS	150		3
XVRMSB	6B1		3
XVRQPRTY	2E4		3
XVSECLEV	113		3
XVSECLNG	118		3
XVSGNAME	24C		3
XVSTACKED_VOLCOUNT	2FC		3
XVSTACKVOL_ENABLED	2F3		3
XVSTATUS	130		3
XVSTBIN	A7		3
XVSTDATE	B3		3
XVSTORID	97		3
XVSTV0L	16		3
XVTRANS	241		3
XVTRERR	581		3
XVTRERR_OLD	16E		3
XVTUSE	85		3
XVTWERR	586		3
XVTWERR_OLD	172		3
XVUCDATE	68B		3
XVUCTIME	695		3
XVUNIT	160		4
XVUSE	635		3
XVUSE_OLD	8F		3
XVUSEFLD	188		3
XVUSERAC	15D		3
XVVENDOR	550		3
XVVER	186		3
XVVMUSE	15E		3
XVVOLCNT	310		2
XVV0LSEQ	139		3
XVVOLSER	4		3
XVVOLTYPE	2CB		3
XVV0L1	541		3

Table 38. Cross Reference for RXEXT (continued)					
Name	0ffset	Hex Tag	Level		
XVVRS	146		3		
XVVRSREL	200		3		
XVVWMC	57C		3		
XVWORM	628		3		
XVWWID	564		3		
XXMERGED	529		2		

SMF action record information: **EDGSAREC**

EDGSAREC maps the action record information.

Common name: RMM SMF Action Record SMF Information Macro ID: EDGSAREC
DSECT name: MAREC
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: C Storage attributes: Subpool: N/A

Key: N/A Residency: N/A

Size: MARECLN
Created by: EDGMFIO
Pointed to by: Assembler - USING on MAREC
PL/X - %INCLUDE EDGSAREC

Serialization: None Function: Maps the RMM SMF action record information

Table 39. Str	ucture MARE(2			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
0	(0)	STRUCTURE	136	MAREC	
0	(0)	CHARACTER	56	MARECORD	EDGSAREC record
Θ	(0)	CHARACTER	56	MAKEY	Action record key field
Θ	(0)	CHARACTER	1	MATYPE	Action record record type
1	(1)	CHARACTER	1	MATYPE1	
2	(2)	CHARACTER	8	MAACTION	Action type: one of MOVE, SCRATCH, RETURN, REPLACE, INIT, ERASE, NOTIFY
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
56	(38)	SIGNED	2	MARECLN	Record length
60	(3C)	CHARACTER	4	MACRDATE	Action create date - YYYYDDD
64	(40)	CHARACTER	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)	CHARACTER	4	MALCDATE	Last change date - YYYYDDD
88	(58)	CHARACTER	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)	CHARACTER	4	MAUCDATE	Last "user" change date
112	(70)	CHARACTER	4	MAUCTIME	Last "user" change time

EDGSAREC

Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
116	(74)	BIT(8)	1	MACFLG	Control flags 1
		1	•	MADELFLG	Record deleted
		.1		MAPDLFLG	Record previously deleted
		1		MASELFLG	Select - processed by satellite update
		1		MADUMMY	Dummy record - allow TSO ADD
		1		MASETDUMMY	Dummy flag should be set
		1.		MAGMT1	Record converted to GMT once
		1		MAGMT2	Time stamps in GMT format
117	(75)	BIT(8)	1	MARECLEV	Record level number
124	(7C)	SIGNED	4	MACOUNT	Count of volumes requiring this action
128	(80)	BIT(8)	1	MASFLAG	Status of moves and actions
		1		MASCOMP	Status = completed
		.1		MASPEND	Status = pending
		1		MASCONF	Status = confirmed
		1		MASUNK	Status = unknown
129	(81)	CHARACTER	7	MARESVD	Reserved
136	(88)	CHARACTER	0	MARCEND	End of MAREC

Table 40	Table 40. Constants for MAREC				
Len	Туре	Value	Name	Description	
1	CHARACTER	С	MATYPEID	Action record ID symbol	
1	CHARACTER	А	MATYPE1_ACTION	Action sub-type	
1	CHARACTER	М	MATYPE1_MOVE	Move sub-type	

Table 41. Cross Reference for MAREC			
Name	Offset	Hex Tag	Leve 1
MAACTION	2		4
MACFLG	74		2
MACOUNT	7C		2
MACRDATE	3C		2
MACRSID	44		2
MACRTIME	40		2
MADELFLG	74	80	3
MADEST	1A		4
MADUMMY	74	08	3
MAGMT1	74	02	3
MAGMT2	74	01	3
MAKEY	0		3
MALCDATE	54		2
MALCSID	64		2
MALCTIME	58		2

Table 41. Cross Reference for MAREC (continued)			
Name	Offset	Hex Tag	Leve 1
MALCUID	5C		2
MALOC	12		4
MAPAD1	22		4
MAPDLFLG	74	40	3
MARCCDS	4C		2
MARCEND	88		2
MAREC	0		1
MARECLEV	75		2
MARECLN	38		2
MARECORD	0		2
MARESVD	81		2
MASCOMP	80	80	3
MASCONF	80	20	3
MASELFLG	74	10	3
MASETDUMMY	74	04	3
MASFLAG	80		2
MASPEND	80	40	3
MASUNK	80	10	3
MATYPE	0		4
MATYPE1	1		4
MAUCDATE	6C		2
MAUCTIME	70		2

SMF data set information: EDGSDREC

EDGSDREC maps the data set information.

Table 42. Str	Table 42. Structure MDREC					
Offset Dec	Offset Hex		Len	Name(Dim)	Description	
0	(0)	STRUCTURE	584	MDREC		
0	(0)	CHARACTER	56	MDRECORD	EDGSDREC information	
0	(0)	CHARACTER	56	MDKEY	DSN RECORD KEY FIELD	
0	(0)	CHARACTER	1	MDTYPE	Data set record ID: 'D'	

Offset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex				
1	(1)	CHARACTER	44	MDDSNAME	Data set name
45	(2D)	CHARACTER	6	MDVOLSER	Volume serial number
52	(34)	UNSIGNED	2	MDDSNSEQ	Data set sequence number
54	(36)	CHARACTER	2	MDPAD1	Reserved - binary zeros
56	(38)	SIGNED	2	MDRECLN	Record length
60	(3C)	CHARACTER	4	MDCRDATE	Data set create date - YYYYDDD
64	(40)	CHARACTER	4	MDCRTIME	Data set create time - HHMMSST
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 - HHMMSST
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)	BIT(8)	1	MDCFLG	Control flags 1
		1	•	MDDELFLG	Record deleted
		.1		MDPDLFLG	Record previously deleted
		1		MDUPDFLG	Direct IO update
		1		MDSELFLG	Select - processed by satellite update
		1		MDDUMMY	Dummy record - allow TSO ADD
		1		MDSETDUMMY	Dummy flag should be set
		1.		MDGMT1	Record converted to GMT once
		1		MDGMT2	Timestamps in GMT format
117	(75)	BIT(8)	1	MDRECLEV	Record level number
124	(7C)	UNSIGNED	4	MDTOTAL_BLKS	Total block count across all volum containing data set
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
140	(8C)	SIGNED	4	MDLRECL	Logical record length
144	(90)	UNSIGNED	4	MDBLKSZ	Physical block size
148	(94)	UNSIGNED	4	MDBLKCNT	Block count
152	(98)	CHARACTER	8	MDOWNDSN	Data set owner
160	(A0)	BIT(8)	1	MDSECLEV	Security level
161	(A1)	BIT(8)	1	MDTRTCH	From JFCTRTCH - IDRC support
		1	ı	MDTCOMP	Data set used 3480 IDRC
		1		MDTNCOMP	No compaction
162	(A2)	UNSIGNED	2	MDFILSEQ	Logical file sequence number
102	(112)	CHARACTER	<u> </u>	2-0-4	Reserved for RMM internal use

Table 42. Stru	ucture MDREC	C (continued)			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
172	(AC)	UNSIGNED	4	MDDSSIZE	Data set size in kilobytes
176	(B0)	CHARACTER	4	MDLRDATE	Date last read - YYYYDDD
180	(B4)	CHARACTER	4	MDLWDATE	Date last written YYYYDDD
184	(B8)	BIT(8)	1	MDFLAG	Flag byte
		1		MDFCAT	Data set is cataloged
		.1		MDFVRSR	Data set is retained by VRS
		1		MDFNOTCAT	Data set was found not to be cataloged during VRS
		1		MDFDELETED	Deleted by disposition
		1		MDFABEND	ABEND in process when data set closed
		1		MDFOCEAB	ABEND probably in O/C/EOV
		1.		MDFORCE	Force supplied
		1		MDDEFRET	Default retention period used
185	(B9)	UNSIGNED	1	MDESBEXPDTSETBY	Expiry date set by
186	(BA)	UNSIGNED	1	MDSAVEXPDTSETBY	Saved SetBy if ESB_CATRETPD
187	(BB)	CHARACTER	1	MDVRSTYP	Matching VRS type: one of D - data set, S - SMSMC, V - VRSMV, M - DSN/MV
188	(BC)	CHARACTER	8	MDACSMC	Management class name
196	(C4)	CHARACTER	8	MDVRSVAL	VRS management value
	Level 1 f	ixed length secti	on (88 byte	es)	
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 job name
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	MDDDNAME	Creating DD name
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
	Level 2 f	ixed length secti	on (56 byte	es)	
292	(124)	UNSIGNED	4	MDBLKIDS	File start block ID
296	(128)	UNSIGNED	4	MDBLKIDE	File end block ID
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
		CHADACTED		MDLCTED	Last use step name
324	(144)	CHARACTER	8	MDLSTEP	Last use step name
324 332	(144) (14C)	CHARACTER	8	MDLDDNM	Last use DD name

ffset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
	Level 3 f	ixed length secti	on (64 byte	es)	
348	(15C)	UNSIGNED	4	MDBESKEY	BES key index
352	(160)	SIGNED	8	MDDSSIZE64	Size in KB
360	(168)	SIGNED	8	MDBLKCNT64	Block count
368	(170)	SIGNED	8	MDTOTAL_BLKS64	Total block count
376	(178)	BIT(8)	1	MDFLAG1	Flag byte
		1		MDFG1_VRSELEXCLUDE	File excluded from VRSEL
		.1		MDFG1_COPYFROM	Record copied from other ds
		1		MDFG1_WHILECAT_ON	WHILECATALOG(ON) set
		1		MDFG1_WHILECAT_UX	WHILECATALOG(UntilExpired)
380	(170)	SIGNED	4	MDLRED	Last reference extra days
384	(180)	UNSIGNED	8	MDPHYS_SIZE	Dataset physical size in KB
392	(188)	CHARACTER	8	MDSAVEXPDATETIME	Saved Expiry Date/Time
392	(188)	CHARACTER	4	MDSAVEXPDT	Saved EXPDT if ESB_CATRETPD
396	(18C)	CHARACTER	4	MDSAVEXPTM	Saved EXPTM if ESB_CATRETPD
	Variable	length section			
412	(190)	CHARACTER	172	MDVARSEC	Variable length section
412	(190)	UNSIGNED	1	MDPDSNL	Length of previous data set name
413	(19D)	UNSIGNED	1	MDNDSNL	Length of next data set name
414	(19E)	UNSIGNED	1	MDVRSNML	Length of matching VRS name
415	(19F)	UNSIGNED	1	MD2VMTCL	Length of secondary VRS fields
424	(1A8)	CHARACTER	44	MDPDSN	Previous data set name or null
468	(1D4)	CHARACTER	44	MDNDSN	Next data set name or null
512	(200)	CHARACTER	44	MDVRSNAM	Matching VRS name
556	(220)	CHARACTER	28	MD2VMTC	Secondary VRS details
556	(220)	CHARACTER	8	MD2VNAME	Secondary VRS mask
564	(234)	CHARACTER	8	MD2VJBNM	Secondary VRS job name mask
572	(23C)	CHARACTER	8	MD2VSCH	Secondary VRS subsequent subchain name
580	(244)	CHARACTER	4	MD2VSDTE	Secondary VRS subsequent subchain start date
584	(248)	CHARACTER	0	MDRCEND	End of MDREC

			Len Type Value Name Description					
Constants								
HARACTER	D	MDTYPEID	Data set record ID symbol					
	Constants		Constants					

Table 43	. Constants for MI	DREC (continued)		
Len	Туре	Value	Name	Description
1	DECIMAL	0	MDESB_UNKNOWN	unknown or not set
1	DECIMAL	1	MDESB_CMD	command
1	DECIMAL	2	MDESB_CMD_DEF	command from default RETPD
1	DECIMAL	3	MDESB_CMD_VOLCAT	command from VOLCAT
1	DECIMAL	4	MDESB_OCE_JFCB	O/C/EoV from JFCB
1	DECIMAL	5	MDESB_OCE_EXIT	O/C/EoV from EDG_EXIT100
1	DECIMAL	6	MDESB_OCE_DEF	O/C/EoV from default RETPD
1	DECIMAL	7	MDESB_OCE_MAX	O/C/EoV from MAXRETPD
1	DECIMAL	8	MDESB_OCE_VOLCAT	O/C/EoV from VOLCAT
1	DECIMAL	9	MDESB_LCS	Library Control System
1	DECIMAL	10	MDESB_LCS_DEF	LCS from default RETPD
1	DECIMAL	11	MDESB_TVEXTPURGE	TVEXTPURGE interface
1	DECIMAL	12	MDESB_CNVT	conversion
1	DECIMAL	13	MDESB_EXPORT	export to stacked volume
1	DECIMAL	14	MDESB_LASTREF	last reference event
1	DECIMAL	15	MDESB_OCE_MC	O/C/EoV from Mgmt class
1	DECIMAL	16	MDESB_CATRETPD	CATRETPD hours after creat. time during tape recording
1	DECIMAL	17	MDESB_CATLG_DAYS	Cat Days after DS is UNCTLG
1	DECIMAL	18	MDESB_DEFTABLE	Defaults table

Table 44. Cross Reference for MDREC			
Name	Offset	Hex Tag	Leve 1
MDACSDC	DC		2
MDACSMC	BC		2
MDACSSC	D4		2
MDACSSG	СС		2
MDBESKEY	150		2
MDBLKCNT	94		2
MDBLKCNT64	168		2
MDBLKIDE	128		2
MDBLKIDS	124		2
MDBLKSZ	90		2
MDCFLG	74		2
MDCPGM	120		2
MDCRDATE	3C		2
MDCRSID	44		2
MDCRTIME	40		2
MDCRTJBN	E4		2
MDDDNAME	100		2
MDDEFRET	B8	01	3
MDDELFLG	74	80	3
MDDSNAME	1		4

EDGSDREC

Name	Offset	Hex Tag	Leve
MDDSNSEQ	34		4
MDDSSIZE	AC AC		2
MDDSSIZE64			—
MDDUMMY	160 74	0.0	3
		08	
MDEND_POSN	81		2
MDESBEXPDTSETBY	B9		2
MDEXPDT	114		2
MDEXPDTO	118		2
MDFABEND	B8	08	3
MDFCAT	B8	80	3
MDFDELETED	B8	10	3
MDFG1_COPYFROM	178	40	3
MDFG1_VRSELEXCLUDE	178	80	3
MDFG1_WHILECAT_ON	178	20	3
MDFG1_WHILECAT_UX	178	10	3
MDFILSEQ	A2		2
MDFLAG	B8		2
MDFLAG1	178		2
MDFNOTCAT	B8	20	3
MDFOCEAB	B8	04	3
MDFORCE	B8	02	3
MDFVRSR	B8	40	3
MDGMT1	74	02	3
MDGMT2	74	01	3
MDKEY	0		3
MDLCDATE	54		2
MDLCSID	64		2
MDLCTIME	58		2
MDLCUID	5C		2
MDLDDNM	14C		2
MDLDEVN	154		2
MDLJOB	130		2
MDLPGM	134		2
MDLRDATE	В0		2
MDLRECL	8C		2
MDLRED	170		2
MDLSTEP	144		2
MDLWDATE	B4		2
MDNDSN	1D4		3
MDNDSNL	190		3
MDOWNDSN	98		2
MDPAD1	36		4

Table 44. Cross Reference for MDREC (continued)			
Name	Offset	Hex Tag	Leve 1
MDPDLFLG	74	40	3
MDPDSN	1A8		3
MDPDSNL	19C		3
MDPHYS_SIZE	180		2
MDPVSCH	108		2
MDPVSDTE	110		2
MDRCCDS	4C		2
MDRCEND	248		2
MDREC	0		1
MDRECFM	88		2
MDRECLEV	75		2
MDRECLN	38		2
MDRECORD	0		2
MDRETDAT	F4		2
MDSAVEXPDATETIME	188		2
MDSAVEXPDT	188		3
MDSAVEXPDTSETBY	ВА		2
MDSAVEXPTM	18C		3
MDSECLEV	ΑΘ		2
MDSELFLG	74	10	3
MDSETDUMMY	74	04	3
MDSTART_POSN	80		2
MDSTEPNM	F8		2
MDTCOMP	A1	08	3
MDTNCOMP	A1	04	3
MDTOKEN	A4		2
MDTOTAL_BLKS	7C		2
MDTOTAL_BLKS64	170		2
MDTRTCH	A1		2
MDTYPE	0		4
MDUCDATE	6C		2
MDUCTIME	70		2
MDUNITAD	84		2
MDUPDFLG	74	20	3
MDVARSEC	19C		2
MDV0LSEQ	82		2
MDV0LSER	2D		4
MDVRSJBN	EC		2
MDVRSNAM	200		3
MDVRSNML	19E		3
MDVRSTYP	ВВ		2
MDVRSVAL	C4		2

EDGSKREC

Table 44. Cross Reference for MDREC (continued)					
Name	Offset	Hex Tag	Leve 1		
MD2VJBNM	234		4		
MD2VMTC	220		3		
MD2VMTCL	19F		3		
MD2VNAME	220		4		
MD2VSCH	230		4		
MD2VSDTE	244		4		

SMF vital record specification information: EDGSKREC

EDGSKREC maps the vital record specification information.

Common name: RMM Vital Record Specification SMF Information

Macro ID: EDGSKREC

DSECT name: MKREC

Owning component: DFSMSrmm (DF186) Eye-catcher ID: K Storage attributes: Subpool: N/A Key: N/A

Residency: N/A

Size: MKRECLN
Created by: EDGMFIO
Pointed to by: Assembler - USING on MKREC
PL/X - %INCLUDE EDGSKREC

Function: Maps the RMM vital record specification SMF information

offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
0	(0)	STRUCTURE	212	MKREC	
Θ	(0)	CHARACTER	0	MKRECORD	EDGSKREC record
Key					
0	(0)	CHARACTER	56	MKKEY	Key of VRS record
0	(0)	CHARACTER	1	MKTYPE	Record type
1	(1)	CHARACTER	1	MKTYPE2	VRS type
2	(2)	CHARACTER	44	*	
2	(2)	CHARACTER	6	MKVOLSER	Volume serial mask
2	(2)	CHARACTER	8	MKNAME	Name of VRS
2	(2)	CHARACTER	44	MKDSNAME	Data set name mask
46	(2E)	CHARACTER	1	MKGENKEY	Generic/specific indicator
47	(2F)	CHARACTER	8	MKCRTJBN	Job name mask
55	(37)	CHARACTER	1	MKPAD1	Reserved (binary zeros)
Conf	rol infor	mation			
56	(38)	SIGNED	2	MKRECLN	Record length
60	(3C)	CHARACTER	4	MKCRDATE	VRS create date - YYYYDDD
64	(40)	CHARACTER	4	MKCRTIME	VRS create time - HHMMSST

Dec	Offset Hex	Туре	Len	Name(Dim)	Description
68	(44)	CHARACTER	8	MKCRSID	Create system ID
76	(4C)	CHARACTER	8	MKRCCDS	Record create CDS ID
84	(54)	CHARACTER	4	MKLCDATE	Last change date - YYYYDDD
88	(58)	CHARACTER	4	MKLCTIME	Last change time - HHMMSST
92	(5C)	CHARACTER	8	MKLCUID	Last change user ID
100	(64)	CHARACTER	8	MKLCSID	Last change system ID
108	(6C)	CHARACTER	4	MKUCDATE	Last "user" change date
112	(70)	CHARACTER	4	MKUCTIME	Last "user" change time
116	(74)	BIT(8)	1	MKCFLG	Control flags 1
		1		MKDELFLG	Record deleted
		.1		MKPDLFLG	Record previously deleted
		1		MKSELFLG	Select - processed by satellite update
		1		MKDUMMY	Dummy record allow TSO ADD
		1		MKSETDUMMY	Dummy flag should be set
		1.		MKGMT1	Record converted to GMT once
		1		MKGMT2	Timestamps in GMT format
117	(75)	BIT(8)	1	MKRECLEV	Record level number
124	(7C)	CHARACTER	1	MKRETN	Type of retention
	(=0)			W/DETN	
124	(7C)	CHARACTER 1	1	MKRETN MKRETNC	Type of retention Cycles
124	(7C)		1		
124	(7C)	1	1	MKRETNC	Cycles
124	(7C)	1	1	MKRETNC MKRETND	Cycles Days
124	(7C)	1	1	MKRETNC MKRETND MKRETNR	Cycles Days LastReferenceDays
124	(70)	1 .1 1	1	MKRETNC MKRETND MKRETNR MKRETNW	Cycles Days LastReferenceDays WhileCataloged
124	(70)	1	1	MKRETNC MKRETND MKRETNR MKRETNW MKRETNX	Cycles Days LastReferenceDays WhileCataloged UntilExpired
		11111	1	MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNX	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays
		1 .1 1 1 1	1	MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNX	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays
Dat	a set name	1		MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle
Dat	a set name	1		MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle Data set name mask type
Dat	a set name	1		MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD MKDSNTYP MKDSNG	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle Data set name mask type Generation Data Group
Dat 125	a set name	1		MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD MKDSNTYP MKDSNG MKDSNP	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle Data set name mask type Generation Data Group Pseudo GDG
Dat 125	a set name	1		MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD MKDSNTYP MKDSNG MKDSNP	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle Data set name mask type Generation Data Group Pseudo GDG
Dat 125	a set name (7D) re informa	1	1	MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD MKDSNTYP MKDSNG MKDSNP MKDSND	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle Data set name mask type Generation Data Group Pseudo GDG Standard
Dat 125 Sto 126	a set name (7D) re informa (7E)	1	1	MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD MKDSNTYP MKDSNG MKDSNP MKDSND	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle Data set name mask type Generation Data Group Pseudo GDG Standard Store requirement
Dat 125 Sto 126 127 128	a set name (7D) re informa (7E) (7F) (80)	1	1 1 1	MKRETNC MKRETND MKRETNR MKRETNW MKRETNX MKRETNXD MKRETNCD MKDSNTYP MKDSNG MKDSNP MKDSND MKSTORE MKRES1	Cycles Days LastReferenceDays WhileCataloged UntilExpired ExtraDays ByDaysCycle Data set name mask type Generation Data Group Pseudo GDG Standard Store requirement Reserved Location name: one of HOME, LOCAL, REMOTE, DISTANT, CURRENT or define

EDGSKREC

Table 45. Str	Table 45. Structure MKREC (continued)						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
144	(90)	SIGNED	4	MKCOUNT	Number of cycles, days, volumes		
148	(94)	SIGNED	2	MKLPRTY	Location priority override		
152	(98)	SIGNED	4	MKSTORE1	Store keep number		
156	(9C)	CHARACTER	4	MKLRTIME	Last reference time		
160	(A0)	BIT(8)	1	MKFLAGA	Flag-A		
		1		MKFGAAND	MKNEXT is ANDVRS() operand		
		.1		MKFGANXT	MKNEXT is NEXTVRS() operand		
161	(A1)	BIT(8)	1	MKRLSOPT	Release options		
		1		MKRLSXDI	Expiration date ignore		
		.1		MKRLSSCI	Scratch immediate		
162	(A2)	SIGNED	2	MKDELAY	Number of days before move		
164	(A4)	CHARACTER	8	MKOWNER	VRS owner		
172	(AC)	CHARACTER	4	MKDELDAT	VRS delete date (YYYYDDD)		
176	(B0)	CHARACTER	30	MKDESC	Description		
208	(D0)	CHARACTER	4	MKLRDATE	Last reference date		
212	(D4)	CHARACTER	0	MKRCEND	End of MKRECORD		

Table 46	Table 46. Constants for MKREC						
Len	Туре	Value	Name	Description			
	Constant for MKTYPE - record type						
1	CHARACTER	К	MKTYPEID	VRS record ID			
	Constants for	: MKTYPE2 - VRS type					
1	CHARACTER	V	MKTYPVOL	Volume VRS			
1	CHARACTER	N	MKTYPNAM	Name VRS			
1	CHARACTER	D	MKTYPDSN	Data set VRS			
	Constants for	MKGENKEY - generic/spec	ific indicator				
1	CHARACTER	0	MKGKSPEC	Specific			
1	CHARACTER	1	MKGKGEN	Generic			
	Constants for	: MKSTORE - store require	ment				
1	CHARACTER	V	MKSTOREV	Vital record only			
1	CHARACTER	R	MKSTORER	Remote store			
1	CHARACTER	L	MKSTOREL	Local store			
1	CHARACTER	D	MKSTORED	Distant store			
1	CHARACTER	В	MKSTOREB	Both: local then distant			

Table 47. Cross Reference for MKREC						
Name	0ffset	Hex Tag	Leve 1			
MKCFLG	74		2			
MKCOUNT	90		2			

Table 47. Cross Reference for MKREC (continued)			
Name	Offset	Hex Tag	Leve 1
MKCRDATE	3C		2
MKCRSID	44		2
MKCRTIME	40		2
MKCRTJBN	2F		3
MKDELAY	A2		2
MKDELDAT	AC		2
MKDELFLG	74	80	3
MKDESC	В0		2
MKDSNAME	2		4
MKDSND	7D	20	3
MKDSNG	7D	80	3
MKDSNP	7D	40	3
MKDSNTYP	7D		2
MKDUMMY	74	08	3
MKFGAAND	A0	80	3
MKFGANXT	ΑΘ	40	3
MKFLAGA	ΑΘ		2
MKGENKEY	2E		3
MKGMT1	74	02	3
MKGMT2	74	01	3
MKKEY	0		2
MKLCDATE	54		2
MKLCSID	64		2
MKLCTIME	58		2
MKLCUID	5C		2
MKLOC	80		2
MKLPRTY	94		2
MKLRDATE	DO		2
MKLRTIME	9C		2
MKNAME	2		4
MKNEXT	88		2
MKOWNER	A4		2
MKPAD1	37		3
MKPDLFLG	74	40	3
MKRCCDS	4C		2
MKRCEND	D4		2
MKREC	0		1
MKRECLEV	75		2
MKRECLN	38		2
MKRECORD	0		2
MKRES1	7F		2
MKRETN	7C		2

Table 47. Cross Reference for MKREC (continued)							
Name	Offset	Hex Tag	Leve 1				
MKRETNC	7C	80	3				
MKRETNCD	7C	02	3				
MKRETND	7C	40	3				
MKRETNR	7C	20	3				
MKRETNW	7C	10	3				
MKRETNX	7C	08	3				
MKRETNXD	7C	04	3				
MKRLSOPT	A1		2				
MKRLSSCI	A1	40	3				
MKRLSXDI	A1	80	3				
MKSELFLG	74	10	3				
MKSETDUMMY	74	04	3				
MKSTORE	7E		2				
MKSTORE1	98		2				
MKTYPE	0		3				
MKTYPE2	1		3				
MKUCDATE	6C		2				
MKUCTIME	70		2				
MKVOLSER	2		4				

SMF audit record header information: EDGSMFAR

EDGSMFAR maps the DFSMSrmm SMF audit record header. This macro can only be used to map an audit SMF record that uses a user-written record type 128-255. Use the IGWSMF macro ("SMF type 42 subtypes information: IGWSMF" on page 319) to map the type 42 subtype 22. See "Using the security report" on page 81 for more information about the DFSMSrmm audit report.

```
Common name: RMM SMF Audit Record
Macro ID: EDGSMFAR
DSECT name: SMFAR
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: None
Storage attributes: Subpool: N/A
                        Key: N/A
                        Residency: N/A
Size: SMFADLEN
Created by: EDGMFIO
Pointed to by: Assembler - USING on SMFAR
                        PL/X - %INCLUDE EDGSMFAR
Serialization: None
Function: Maps the RMM SMF audit record header.
                        Deprecated - use IBM type 42 records
                        (subtype 22) instead of user range
                        SMF types.
                        To map the information which starts at
                        SMFADREC use the following macros:
Data set information: EDGSDREC
                        Rack information: EDGSRREC
                        Bin information: EDGSSREC
                        Owner information: EDGSOREC
                        Product information: EDGSPREC
                        VRS information: EDGSKREC
                        Volume information: EDGSVREC
```

Table 48. Str	ucture SMFAF	?			
Offset Dec	Offset Hex	''	Len	Name(Dim)	Description
0	(0)	STRUCTURE	43	SMFAR	
0	(0)	CHARACTER	0	SMFADRC	SMF audit record
0	(0)	CHARACTER	2	SMFADLEN	Record length
4	(4)	BIT(8)	1	SMFADFLG	System type
5	(5)	BIT(8)	1	SMFADRTY	Record type
6	(6)	CHARACTER	4	SMFADTME	Time, since midnight in Hundredths of a second, That record was placed In the SMF buffer
10	(A)	CHARACTER	4	SMFADDTE	Date that record was Placed in the SMF buffer. In the form OCYYDDDF, 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
34	(22)	CHARACTER	8	SMFADUID	RACF user ID
42	(2A)	CHARACTER	1	SMFADACT	Activity type
43	(2B)	CHARACTER	0	SMFADREC	Start of information

Table 49. Cross Reference for SMFAR						
Name	Offset	Hex Tag	Leve 1			
SMFADACT	2A		2			
SMFADDTE	A		2			
SMFADFLG	4		2			
SMFADJBN	12		2			
SMFADLEN	0		2			
SMFADRC	0		2			
SMFADREC	2В		2			
SMFADRSD	1E		2			
SMFADRST	1A		2			
SMFADRTY	5		2			
SMFADSID	E		2			
SMFADTME	6		2			
SMFADUID	22		2			
SMFAR	0		1			

SMF security record information: EDGSMFSR

EDGSMFSR maps the DFSMSrmm SMF security record. This macro can only be used to map a security SMF record that uses a user-written record type 128-255. Use the IGWSMF macro ("SMF type 42 subtypes information: IGWSMF" on page 319) to map the type 42 subtype 23. See "Using the security report" on page 81 for more information about the DFSMSrmm audit report.

Common name: RMM SMF Security Record Macro ID: EDGSMFSR
DSECT name: SMFSR
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: None

Storage attributes: Subpool: N/A Key: N/A Residency: N/A

Size: SMFSALEN
Created by: EDGSOCE
Pointed to by: Assembler - USING on SMFSR
PL/X - %INCLUDE EDGSMFSR

Serialization: None
Function: Maps the RMM SMF security record.

Deprecated - use IBM type 42 records
(subtype 23) instead of user range
SMF types.

Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
0	(0)	STRUCTURE	140	SMFSR	
0	(0)	CHARACTER	140	SMFSAREC	SMF Security audit record
0	(0)	CHARACTER	2	SMFSALEN	Record length
4	(4)	BIT(8)	1	SMFSAFLG	System type
5	(5)	BIT(8)	1	SMFSARTY	Record type
6	(6)	CHARACTER	4	SMFSATME	Time, since midnight in hundredths of a second, that record was placed in the SMF buffer
10	(A)	CHARACTER	4	SMFSADTE	Date that record was placed in the SMF buffer. in the form OCYYDDDF, 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
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, one of : C - Data set Create, E - Data set Extend, U - Data set Update, R - Data set Read Access D - Data set Delete
60	(3C)	BIT(8)	1	SMFSASTP	Security type
62	(3E)	CHARACTER	44	SMFSADSN	Date set name
106	(6A)	CHARACTER	6	SMFSAVOL	Volume serial number
112	(70)	CHARACTER	8	SMFSAUNT	Device type
120	(78)	UNSIGNED	2	SMFSADSQ	Data set sequence number
122	(7A)	UNSIGNED	2	SMFSAVSQ	Volume sequence number
140	(8C)	CHARACTER	0	SMFSEND	End of SMFSR

Table 51. Cross Reference for SMFSR			
Name	Offset	Hex Tag	Leve 1
SMFSAACT	3B		3
SMFSACGP	32		3
SMFSADSN	3E		3
SMFSADSQ	78		3
SMFSADTE	A		3
SMFSAFLG	4		3
SMFSAJBN	12		3
SMFSALEN	0		3
SMFSAREC	0		2
SMFSARSD	1E		3
SMFSARST	1A		3
SMFSARTY	5		3
SMFSASID	E		3
SMFSASTP	3C		3
SMFSATME	6		3
SMFSAUID	2A		3
SMFSAUIF	22		3
SMFSAUNT	70		3
SMFSAVER	3A		3
SMFSAVOL	6A		3
SMFSAVSQ	7A		3
SMFSEND	80		3
SMFSR	0		1

SMF owner information: EDGSOREC

EDGSOREC maps the owner information.

```
Common name: RMM SMF Record Owner SMF Inforamtion
Macro ID: EDGSOREC
DSECT name: MOREC
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: 0
Storage attributes: Subpool: N/A
Key: N/A
                                    Residency: N/A
```

Size: MORECLN
Created by: EDGMFIO
Pointed to by: Assembler - USING on MOREC
PL/X - %INCLUDE EDGMOREC

Serialization: None Function: Maps the RMM SMF record owner information

Table 52. Str	le 52. Structure MOREC						
Offset Dec	Offset Hex		Len	Name(Dim)	Description		
0	(0)	STRUCTURE	1728	MOREC			
0	(0)	CHARACTER	0	MORECORD	EDGSOREC information		
0	(0)	CHARACTER	56	*			

Offset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex				
0	(0)	CHARACTER	1	MOTYPE	Owner info ID: 'O'
1	(1)	CHARACTER	8	MOOWNER	Owner ID
9	(9)	CHARACTER	6	MORTYPE	Owner info type
15	(F)	CHARACTER	41	MOPAD1	Reserved - binary zeros
56	(38)	SIGNED	2	MORECLN	Record length
60	(3C)	CHARACTER	4	MOCRDATE	Owner create date - YYYYDDD
64	(40)	CHARACTER	4	MOCRTIME	Owner create time - HHMMSST
68	(44)	CHARACTER	8	MOCRSID	Create system ID
76	(4C)	CHARACTER	8	MORCCDS	Record create CDS ID
84	(54)	CHARACTER	4	MOLCDATE	Last change date - YYYYDDD
88	(58)	CHARACTER	4	MOLCTIME	Last change time - HHMMSST
92	(5C)	CHARACTER	8	MOLCUID	Last change user ID
100	(64)	CHARACTER	8	MOLCSID	Last change system ID
108	(6C)	CHARACTER	4	MOUCDATE	Last "user" change date
112	(70)	CHARACTER	4	MOUCTIME	Last "user" change time
116	(74)	BIT(8)	1	MOCFLG	Control flags 1
		1		MODELFLG	Record deleted
		.1		MOPDLFLG	Record previously deleted
		1		MOSELFLG	Select - processed by satellite update
		1		MODUMMY	Dummy record - allow TSO ADD
		1		MOSETDUMMY	Dummy flag should be set
		1.		MOGMT1	Record converted to GMT once
		1		MOGMT2	Timestamps in GMT format
124	(7C)	CHARACTER	1604	*	
124	(7C)	CHARACTER	312	MOOWNDET	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 number
332	(14C)	CHARACTER	20	MOOWNTEX	Owner external telephone number
352	(160)	CHARACTER	8	MOOWNUID	Owner userid
360	(168)	CHARACTER	8	MOOWNNOD	Owner node name
368	(170)	SIGNED	4	MOOWNVOL	Total number of owned volumes
372	(174)	CHARACTER	63	MOOWNEML	Owner email address
436	(1B4)	CHARACTER	0	MOODETND	End of owner details
124	(7C)	CHARACTER	1604	MOVOLDET	Volume details
124	(7C)	SIGNED	2	MOVOLNO	Owned volumes
128	(80)	CHARACTER	16	MOVOLENT	Volume entry
-	()		1		1

Table 52. Str	Table 52. Structure MOREC (continued)					
Offset Dec	Offset Hex	Туре	Len	Name (Dim)	Description	
136	(88)	CHARACTER	8	MOUNIT	Unit type	
144	(90)	CHARACTER	16	MOVOLENZ(99)	Area for remaining entries	
1728	(600)	CHARACTER	0	MOVDETND	End of volume details	
1728	(600)	CHARACTER	0	MORCEND	End of MOREC	

Table 53	Table 53. Constants for MOREC					
Len	Туре	Value	Name	Description		
1	CHARACTER	0	MOTYPEID	Owner info ID symbol		
1	DECIMAL	100	MOMXVOLS	Define the maximum number		

Table 54. Cross Reference for MOREC			
Name	Offset	Hex Tag	Leve 1
MOCFLG	74		2
MOCRDATE	3C		2
MOCRSID	44		2
MOCRTIME	40		2
MODELFLG	74	80	3
MODUMMY	74	08	3
MOGMT1	74	02	3
MOGMT2	74	01	3
MOLCDATE	54		2
MOLCSID	64		2
MOLCTIME	58		2
MOLCUID	5C		2
MOODETND	1B4		4
MOOWNAD1	СС		4
MOOWNAD2	F4		4
MOOWNAD3	110		4
MOOWNDEP	A4		4
MOOWNDET	7C		3
MOOWNEML	174		4
MOOWNER	1		3
MOOWNFST	90		4
MOOWNNOD	168		4
MOOWNSUR	7C		4
MOOWNTEX	14C		4
MOOWNTIN	144		4
MOOWNUID	160		4
MOOWNVOL	170		4
MOPAD1	F		3
MOPDLFLG	74	40	3
MORCCDS	4C		2

EDGSPREC

Table 54. Cross Reference for MOREC (continued)	Table 54. Cross Reference for MOREC (continued)						
Name	Offset	Hex Tag	Leve 1				
MORCEND	600		2				
MOREC	0		1				
MORECLN	38		2				
MORECORD	0		2				
MORTYPE	9		3				
MOSELFLG	74	10	3				
MOSETDUMMY	74	04	3				
МОТУРЕ	0		3				
MOUCDATE	6C		2				
MOUCTIME	70		2				
MOUNIT	88		5				
MOVDETND	600		2				
MOVOLDET	7C		3				
MOVOLENT	80		4				
MOVOLENZ	90		4				
MOVOLNO	7C		4				
MOVOLSER	80		5				

SMF software product information: EDGSPREC

EDGSPREC maps the software product information.

```
Common name: RMM Product Information For SMF Records
Macro ID: EDGSPREC
DSECT name: MPREC
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: P
Storage attributes: Subpool: N/A
Key: N/A
Residency: N/A
Size: MPRECLN
Created by: EDGMFIO
Pointed to by: Assembler - USING on MPREC
```

Pointed to by: Assembler - USING on MPREC $$\operatorname{PL/X}$$ - %INCLUDE EDGSPREC Serialization: None

Function: Maps the SMF record product information

Table 55. Str	Table 55. Structure MPREC						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
0	(0)	STRUCTURE	8420	MPREC			
0	(0)	CHARACTER	0	MPRECORD	EDGSPREC information		
0	(0)	CHARACTER	56	*			
0	(0)	CHARACTER	1	MPTYPE	Program product info ID: 'P'		
1	(1)	CHARACTER	8	MPPPNUM	Program product number (NNNN-CCC)		
9	(9)	CHARACTER	6	MPVER	Version, release, modification number		
15	(F)	CHARACTER	41	MPPAD1	Reserved - binary zeros		
56	(38)	SIGNED	2	MPRECLN	Record length		
60	(3C)	CHARACTER	4	MPCRDATE	Program product create date YYYYDDD		

Table 55. Str	ucture MPRE	C (continued)			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
64	(40)	CHARACTER	4	MPCRTIME	Program product create time HHMMSST
68	(44)	CHARACTER	8	MPCRSID	Create system ID
76	(4C)	CHARACTER	8	MPRCCDS	Record create CDS ID
84	(54)	CHARACTER	4	MPLCDATE	Last change date - YYYYDDD
88	(58)	CHARACTER	4	MPLCTIME	Last change time - HHMMSST
92	(5C)	CHARACTER	8	MPLCUID	Last change user ID
100	(64)	CHARACTER	8	MPLCSID	Last change system ID
108	(6C)	CHARACTER	4	MPUCDATE	Last "user" change date
112	(70)	CHARACTER	4	MPUCTIME	Last "user" change time
116	(74)	BIT(8)	1	MPCFLG	Control flags 1
		1	•	MPDELFLG	Record deleted
		.1		MPPDLFLG	Record previously deleted
		1		MPSELFLG	Select - processed by satellite update
		1		MPDUMMY	Dummy record - allow TSO ADD
		1		MPSETDUMMY	Dummy flag should be set
		1.		MPGMT1	Record converted to GMT once
		1		MPGMT2	Timestamps in GMT format
124	(7C)	CHARACTER	8	MPPPOWN	Program product owner ID
132	(84)	CHARACTER	30	MPPPNAME	Program product name
162	(A2)	CHARACTER	30	MPPPDESC	Program product description
256	(100)	CHARACTER	8164	MPVOLDET	Volume details
256	(100)	SIGNED	2	MPVOLNO	Number of program product volumes
260	(104)	CHARACTER	32	MPVOLENT	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
8420	(20E4)	CHARACTER	0	MPRCEND	End of MPREC

Table 56	Table 56. Constants for MPREC						
Len	Туре	Value	Name	Description			
1	CHARACTER	Р	MPTYPEID	Program product info ID symbol			
1	DECIMAL	255	MPVOLMAX	Maximum number of program product volumes			

Table 57. Cross Reference for MPREC			
Name	Offset	Hex Tag	Leve 1
MPCFLG	74		2
MPCRDATE	3C		2
MPCRSID	44		2
MPCRTIME	40		2
MPDELFLG	74	80	3

EDGSRREC

Table 57. Cross Reference for MPREC (continued)								
Name	Offset	Hex Tag	Leve 1					
MPDUMMY	74	08	3					
MPFEAT	110		4					
MPGMT1	74	02	3					
MPGMT2	74	01	3					
MPLCDATE	54		2					
MPLCSID	64		2					
MPLCTIME	58		2					
MPLCUID	5C		2					
MPPAD1	F		3					
MPPDLFLG	74	40	3					
MPPPDESC	A2		2					
MPPPNAME	84		2					
MPPPNUM	1		3					
MPPPOWN	7C		2					
MPRACK	10A		4					
MPRCCDS	4C		2					
MPRCEND	20E4		2					
MPREC	0		1					
MPRECLN	38		2					
MPRECORD	0		2					
MPSELFLG	74	10	3					
MPSETDUMMY	74	04	3					
MPTYPE	0		3					
MPUCDATE	6C		2					
MPUCTIME	70		2					
MPUNIT	114		4					
MPVER	9		3					
MPVOLDET	100		2					
MPVOLENT	104		3					
MPVOLNO	100		3					
MPVOLSER	104		4					

SMF library shelf location information: EDGSRREC

EDGSRREC maps the library shelf location information.

Common name: RMM SMF Rack Record
Macro ID: EDGSRREC
DSECT name: MRREC
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: E, F, or U
Storage attributes: Subpool: N/A Key: N/A

Residency: N/A

Size: MRRECLN
Created by: EDGMFIO
Pointed to by: Assembler - USING on MRREC
PL/X - %INCLUDE EDGSRREC Serialization: None
Function: Maps the MRREC structure to identify the
details within the RMM SMF rack record.

Table 58. Stru	cture MRREC					
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description	
0	(0)	STRUCTURE	140	MRREC		
0	(0)	CHARACTER	0	MRRECORD		
0	(0)	CHARACTER	56	*		
0	(0)	CHARACTER	1	MRTYPE	Rack type ID	
2	(2)	CHARACTER	8	MRMEDIA	Media name	
2	(2)	CHARACTER	8	MRUNIT	Unit type	
10	(A)	CHARACTER	6	MRRACK	Rack number	
16	(10)	CHARACTER	40	MRPAD1		
56	(38)	SIGNED	2	MRRECLN	Record length	
60	(3C)	CHARACTER	4	MRCRDATE	Rack create date (YYYYDDD)	
64	(40)	CHARACTER	4	MRCRTIME	Rack create time (HHMMSST)	
68	(44)	CHARACTER	8	MRCRSID	Create system ID	
76	(4C)	CHARACTER	8	MRRCCDS	Record create CDS ID	
84	(54)	CHARACTER	4	MRLCDATE	Last change date (YYYYDDD)	
88	(58)	CHARACTER	4	MRLCTIME	Last change time (HHMMSST)	
92	(5C)	CHARACTER	8	MRLCUID	Last change user ID	
100	(64)	CHARACTER	8	MRLCSID	Last change system ID	
108	(6C)	CHARACTER	4	MRUCDATE	Last "user" change date	
112	(70)	CHARACTER	4	MRUCTIME	Last "user" change time	
116	(74)	BIT(8)	1	MRCFLG	Control flags 1	
		1		MRDELFLG	Record deleted	
		.1		MRPDLFLG	Record previously deleted	
		1		MRSELFLG	Select - processed by satellite update	
		1		MRDUMMY	Dummy record - allow TSO ADD	
		1		MRSETDUMMY	Dummy flag should be set	
		1.		MRGMT1	Record converted to GMT once	
		1		MRGMT2	Timestamps in GMT format	
124	(7C)	CHARACTER	6	MRVOLSER	Assigned volume serial number or zeroes	
140	(8C)	CHARACTER	0	MRRCEND	End of MRREC	

EDGSSREC

Table 59	Table 59. Constants for MRREC					
Len	Туре	Value	Name	Description		
1	CHARACTER	Е	MRTYPEE	Empty rack		
1	CHARACTER	F	MRTYPEF	Free / scratch rack		
1	CHARACTER	U	MRTYPEU	In use rack		

Table 60. Cross Reference for MRREC			
Name	Offset	Hex Tag	Leve 1
MRCFLG	74		2
MRCRDATE	30		2
MRCRSID	44		2
MRCRTIME	40		2
MRDELFLG	74	80	3
MRDUMMY	74	08	3
MRGMT1	74	02	3
MRGMT2	74	01	3
MRLCDATE	54		2
MRLCSID	64		2
MRLCTIME	58		2
MRLCUID	5C		2
MRMEDIA	2		3
MRPAD1	10		3
MRPDLFLG	74	40	3
MRRACK	A		3
MRRCCDS	4C		2
MRRCEND	8C		2
MRREC	0		1
MRRECLN	38		2
MRRECORD	0		2
MRSELFLG	74	10	3
MRSETDUMMY	74	04	3
MRTYPE	0		3
MRUCDATE	6C		2
MRUCTIME	70		2
MRUNIT	2		4
MRVOLSER	70		2

SMF storage location bin information: **EDGSSREC**

EDGSSREC maps the storage location bin information.

Common name: RMM SMF Bin Record
Macro ID: EDGSSREC
DSECT name: MSREC
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: R, or S
Storage attributes: Subpool: N/A Key: N/A Residency: N/A

Size: MSRECLN

Size: MSRECLN
Created by: EDGMFIO
Pointed to by: Assembler - USING on MSREC
PL/X - %INCLUDE EDGSSREC Serialization: None
Function: Maps the MSREC structure to identify
the details within the RMM SMF bin record.

Table 61. Stri	ıcture MSREC				
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
0	(0)	STRUCTURE	164	MSREC	
0	(0)	CHARACTER	0	MSRECORD	
0	(0)	CHARACTER	56	*	
0	(0)	CHARACTER	1	MSTYPE	Store ID: R, S
1	(1)	CHARACTER	1	MSRMSTID	Remote store ID: D, L, R, U
2	(2)	CHARACTER	54	*	Two key formats
2	(2)	CHARACTER	54	*	Old bin format
2	(2)	CHARACTER	8	MSSRSVD1	Reserved
10	(A)	CHARACTER	6	MSBINNO	Bin number
16	(10)	CHARACTER	40	MSPAD1	Reserved
2	(2)	CHARACTER	54	*	New bin format
2	(2)	CHARACTER	8	MSUSTNAM	User store name
10	(A)	CHARACTER	8	MSUMEDNM	User store bin media name
18	(12)	CHARACTER	6	MSUBINNO	User store bin name
56	(38)	SIGNED	2	MSRECLN	Record length
60	(3C)	CHARACTER	4	MSCRDATE	Create date (YYYYDDD)
64	(40)	CHARACTER	4	MSCRTIME	Create time (HHMMSST)
68	(44)	CHARACTER	8	MSCRSID	Create system ID
76	(4C)	CHARACTER	8	MSRCCDS	Record create CDS ID
84	(54)	CHARACTER	4	MSLCDATE	Last change date (YYYYDDD)
88	(58)	CHARACTER	4	MSLCTIME	Last change time (HHMMSST)
92	(5C)	CHARACTER	8	MSLCUID	Last change user ID
100	(64)	CHARACTER	8	MSLCSID	Last change system ID
108	(6C)	CHARACTER	4	MSUCDATE	Last "user" change date
112	(70)	CHARACTER	4	MSUCTIME	Last "user" change time
116	(74)	BIT(8)	1	MSCFLG	Control flags 1
		1	•	MSDELFLG	Record deleted
		.1		MSPDLFLG	Record previously deleted
		1		MSSELFLG	Select - processed by satellite update
		1		MSDUMMY	Dummy record - allow TSO add
		1		MSSETDUMMY	Dummy flag should be set

EDGSSREC

Table 61. Str	ucture MSREC	(continued)			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
		1.		MSGMT1	Record converted to GMT once
		1		MSGMT2	Timestamps in GMT format
124	(7C)	CHARACTER	6	MSVOLSER	Assigned volume serial number or zeroes
Lev	el 1 secti	on (24 bytes)			
140	(8C)	CHARACTER	6	MSMOVINGINVOL	Moving in volume
146	(92)	CHARACTER	6	MSMOVINGOUTVOL	Moving out volume
152	(98)	CHARACTER	6	MSOLDVOL	Old volume
164	(A4)	CHARACTER	0	MSRCEND	End of MSREC

Table 62	Table 62. Constants for MSREC								
Len	Туре	Value	Name	Description					
1	CHARACTER	R	MSTYPER	Empty bin					
1	CHARACTER	S	MSTYPES	Assigned bin					
1	CHARACTER	D	MSSTIDD	Distant store					
1	CHARACTER	L	MSSTIDL	Local store					
1	CHARACTER	R	MSSTIDR	Remote store					

Table 63. Cross Reference for MSREC			
Name	Offset	Hex Tag	Leve 1
MSBINNO	А		5
MSCFLG	74		2
MSCRDATE	3C		2
MSCRSID	44		2
MSCRTIME	40		2
MSDELFLG	74	80	3
MSDUMMY	74	08	3
MSGMT1	74	02	3
MSGMT2	74	01	3
MSLCDATE	54		2
MSLCSID	64		2
MSLCTIME	58		2
MSLCUID	5C		2
MSMOVINGINVOL	80		2
MSMOVINGOUTVOL	92		2
MSOLDVOL	98		2
MSPAD1	10		5
MSPDLFLG	74	40	3
MSRCCDS	4C		2
MSRCEND	A4		2
MSREC	0		1
MSRECLN	38		2

Table 63. Cross Reference for MSREC (continued)			
Name	Offset	Hex Tag	Leve 1
MSRECORD	0		2
MSRMSTID	1		3
MSSELFLG	74	10	3
MSSETDUMMY	74	04	3
MSSRSVD1	2		5
MSTYPE	0		3
MSUBINNO	12		5
MSUCDATE	6C		2
MSUCTIME	70		2
MSUMEDNM	А		5
MSUSTNAM	2		5
MSVOLSER	7C		2

SMF volume information: EDGSVREC

EDGSVREC maps the volume information.

Common name: RMM SMF Volume Record Macro ID: EDGSVREC
DSECT name: MVREC
Owning component: DFSMSrmm (DF186)
Eye-catcher ID: V

Storage attributes: Subpool: N/A
Key: N/A

Residency: N/A

Size: MVRECLN

Size: MVRECLN
Created by: EDGMFIO
Pointed to by: Assembler - USING on MVREC
PL/X - %INCLUDE EDGSVREC

Function: Maps the MVREC structure to identify
the details within the RMM SMF volume

record.

Table 64. Str	ucture MVREC	2			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
0	(0)	STRUCTURE	1012	MVREC	
0	(0)	CHARACTER	0	MVRECORD	
0	(0)	CHARACTER	56	MVKEY	Volume Record key field
0	(0)	CHARACTER	1	MVTYPE	Volume info type 'V'
2	(2)	CHARACTER	6	MVVOLSER	Volume serial number
8	(8)	CHARACTER	48	MVPAD1	Reserved - binary zeros
56	(38)	SIGNED	2	MVRECLN	Record length
60	(3C)	CHARACTER	4	MVCRDATE	Volume create date (YYYYDDD)
64	(40)	CHARACTER	4	MVCRTIME	Volume create time (HHMMSST)
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	MVLCTIME	Last change time (HHMMSST)

ffset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex	21-			
92	(5C)	CHARACTER	8	MVLCUID	Last change user ID
100	(64)	CHARACTER	8	MVLCSID	Last change system ID
108	(6C)	CHARACTER	4	MVUCDATE	Last "user" change date
112	(70)	CHARACTER	4	MVUCTIME	Last "user" change time
116	(74)	BIT(8)	1	MVCFLG	Control flags 1
		1		MVDELFLG	Record deleted
		.1		MVPDLFLG	Record previously deleted
		1		MVUPDFLG	Direct IO update
		1		MVSELFLG	Select - processed by satellite update
		1		MVDUMMY	Dummy record - allow TSO add
		1		MVSETDUMMY	Dummy flag should be set
		1.		MVGMT1	Record converted to GMT once
		1		MVGMT2	Timestamps in GMT format
117	(75)	BIT(8)	1	MVRECLEV	Record level number
124	(7C)	CHARACTER	4	MVEXPDT0	Expiration date - original
128	(80)	CHARACTER	4	MVEXPDT	Expiration date (YYYYDDD)
132	(84)	BIT(8)	1	MVRDEN	Copy of JFCBDEN
133	(85)	CHARACTER	1	MVDEN	Recording density
134	(86)	UNSIGNED	2	MVDSNNO	Number of data sets on volume
136	(88)	UNSIGNED	4	MVTUSE	Tape usage in kilobytes
140	(8C)	SIGNED	2	MVUSE	Volume use count
142	(8E)	BIT(8)	1	MVSTSTAT	Store status
143	(8F)	BIT(8)	1	MVVRSREL	VRS release options
		1		MVVRFXDI	Expiration date ignore
		.1		MVVRFSCI	Scratch immediate
144	(90)	UNSIGNED	2	MVLABN01	Label number of first file
146	(92)	CHARACTER	4	MVTDSI	Tape media type information
146	(92)	BIT(8)	1	MVMEDREC	Recording format, one of: NON CARTRIDGE (X'00'), 18TRACK (X'01') 36TRACK (X'02'), 128TRACK (X'03'), 256TRACK (X'04'), 384TRACK (X'05') EFMT1 (X'06'), EFMT2 (X'07'), EEFM (X'08'), EFMT3 (X'09'), EEFMT3 (X'04'), EFMT4 (X'06'), EFMT4 (X'06')
147	(93)	BIT(8)	1	MVMEDTY	Tape media type, one of: NON CARTRIDGE (X'00'), CST (X'01'), EC (X'02'), HPCT (X'03'), EHPCT (X'04 MEDIA5 3592 R/W (X'05'), MEDIA6 3592 WORM (X'06'), MEDIA7 3592 R/W 60 (X'07'), MEDIA8 3592 WORM 60 (X'08'), MEDIA9 3592 EXTENDED (X'09'), MEDIA10 3592 EXTENDED WOR (X'0A') MEDIA11 3592 ADVANCED(X'0B MEDIA12 3592 ADV.WORM(X'0C') MEDIA 3592 ADV.ECON(X'0D')
148	(94)	BIT(8)	1	MVMEDCMP	Tape compaction, one of: UNKNOWN (X'00'), NOT COMPACTED (X'01'), COMPACTED (X'02')
149	(95)	BIT(8)	1	MVMEDATR	Tape special attributes, one of: r

Offset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex				
150	(96)		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	(8A)	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	(CO)	CHARACTER	4	MVLRDDAT	Date volume last read (YYYYDDD)
196	(C4)	CHARACTER	4	MVLWTDAT	Date volume last written
200	(83)	CHARACTER	8	MVASDATM	Assigned date and time
200	(C8)	CHARACTER	4	MVASDATE	Assigned date (YYYYDDD)
204	(CC)	CHARACTER	4	MVASTIME	Assigned time (HHMMSST)
208	(D0)	CHARACTER	8	MVOWNID	Volume owner user ID
216	(D8)	CHARACTER	8	MVCRUID	Creating user ID
224	(E0)	CHARACTER	8	MVCRJOB	Creating job name
232	(E8)	BIT(8)	1	MVSECLEV	Security classification level
233	(E9)	BIT(8)	1	MVFLGAX	Flags 'A' - status extension
		1	•	MVGVCFLG	Scratch volume claimed via GETVOLU
		.1		MVXINFLG	Scratch volume has never been initialized
		1		MVINIFLG	Scratch volume with init action pending
		1		MVENTFLG	Scratch volume waiting to enter AT
		1		MVFABEND	ABEND in process when a data set closed
		1		MVFOCEAB	ABEND probably in O/C/EOV
		1.		MVATIFLG	Initialization required for ATL volume
		1		MVFORCE	Force supplied
234	(EA)	SIGNED	2	MVVOLSEQ	Volume sequence number
236	(EC)	CHARACTER	1	*	
236	(EC)	BIT(8)	1	MVFLGA	Flags 'A' - status
		1	•	MVMSTFLG	Volume is master
		.1		MVRLSFLG	Volume pending release
		1		MVVRFLG	Vital record - do not release
		1		MVASSFLG	User tape (assigned by library)
		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)	BIT(8)	1	*	Flags 'A' - status
		1		MVEXRFLG	Stacked volume recorded by export

ffset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex				
237	(ED)	` '	1	MVFLGB	Flags 'B'
		1		MVDEFRET	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.		MVBLTAPE	Tape last written using BLP
		1		MVULTAPE	SL or AL tape has user labels
238	(EE)	BIT(8)	1	MVFLGC	Flags 'C' - release actions
		1		MVRETSCR	Return to scratch pool - default
		.111 1111		MVRELACT	Release actions
		.1		MVREPREL	Replace tape on release
		1		MVREINIT	Reinitialize
		1		MVDEGAUS	Degauss / security erase
		1		MVROWNER	Return to owner
		1		MVNOWNER	Notify owner
239	(EF)	BIT(8)	1	MVFLGD	Flags 'D' - access
		1		MVOREAD	Owner may read volume
		.1		MVOUPD	Owner may update volume
		1		MVOALT	Owner may alter volume
		1		MVPROTR	Read-only protection
		1		MVPROTU	Update protection
		1		MVMVSUSE	May be used on MVS systems
		1.		MVVMUSE	May be used on VM systems
		1		MVNODSNR	Only first data set recorded
240	(F0)	BIT(8)	1	MVFLGE	Flags 'E' - actions pending
		1	-	MVRETSCR	
		.111 1111		MVRELACT	
		.1		MVREPREL	
		1		MVREINIT	
		1		MVDEGAUS	
		1		MVROWNER	
		1		MVNOWNER	
241	(F1)	BIT(8)	1	MVLTYP	Copy of JFCBLTYP
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 volume serial number if

Table 64. Str	ucture MVREC	C (continued)			
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
264	(108)	CHARACTER	6	MVNVOL	Next volume serial number if multi volume
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	MVBLKID	BLOCKID RETURNED BY OCE EXIT
286	(11E)	CHARACTER	18	MVPPDATA	Program product data
286	(11E)	CHARACTER	8	MVPPNUM	Program product number
294	(126)	CHARACTER	6	MVVER	Version / release / modification level
300	(12C)	CHARACTER	4	MVFEAT	Feature code
304	(130)	BIT(8)	1	MVTRTCH	From JFCTRTCH - IDRC support
		1		MVTCOMP	Data set compaction
		1		MVTNCOMP	No compaction
305	(131)	CHARACTER	6	MVOPVOL	OLD PREVIOUS VOLUME
311	(137)	CHARACTER	8	MVTOKEN	Reserved for O/C/EOV
319	(13F)	BIT(8)	1	MVLOCFLG	Flag byte for library support
		1		MVTRNFLG	Indicates volume in transit, when not set, volume is in location.
		.1		MVMVMODE	Move mode: automove (B'0'), manualmove (B'1')
		1		MVEXTBINAPPLIED	Extended bin applied
		1		MVCOPEXP	volume was subject to copy export processing
		1111		MVLTYFLG	Location type - 4 bits, shelf location (B'0000'), storage location (B'0001'), manual library (B'0010'), automatic library (B'0011'), store with bins (B'0100'), store without bins (B'0101')
320	(140)	CHARACTER	2	MVTYPFLG	Flags for location type information
320	(140)	BIT(8)	1	*	
		1111		MVNTYFLG	Location type - 4 bits, shelf location (B'0000'), storage location (B'0001'), manual library (B'0010'), automatic library (B'0011'), store with bins (B'0100'), store without bins B(B'0101')
		1111		MVDTYFLG	Location type - 4 bits shelf location (B'0000'), storage location (B'0001'), manual library (B'0010'), automatic library (B'0011'), store with bins (B'0100'), store without bins B(B'0101')
321	(141)	BIT(8)	1	*	
		1111		MVHTYFLG	Location type - 4 bits, shelf location (B'0000'), storage location (B'0001'), manual library (B'0010'), automatic library (B'0011'), store with bins (B'0100'), store without bins B(B'0101')

Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
		1111		MVOTYFLG	Old location type - 4 bits, shelf location (B'0000'), storage locatio (B'0001'), manual library (B'0010') automatic library (B'0011'), store with bins (B'0100'), store without bins B(B'0101')
322	(142)	SIGNED	2	MVRQPRTY	Required location priority
324	(144)	UNSIGNED	4	MVCAPACITY	Volume capacity in megabytes (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	MVOLDVOLSER	Old VOLSER if renaming VOLSER
406	(196)	CHARACTER	6	MVOLDRACK	Old RACK if renaming VOLSER
412	(19C)	CHARACTER	8	MVLCTOKN	Volume last change token
420	(1A4)	UNSIGNED	1	MVVOLTYPE	Volume type
421	(1A5)	BIT(8)	1	MVFLGF	Flags 'F'
		1	•	MVRBYSET	Retained by volume set
		.1		MVWORM	Write once read multiple
		1		MVHOLD	Will not be set pending release
		1		MVF_KBTRV	MSNS KBTRV used for Phys_siz
		1		MVWHILECATUX	Volume has EXPDT of DSN with WhileCat=UX and Catalog=yes
		1		MVEDM	EDM-managed volume
		1		MVIRMMUSE	May be used on IRMM system
	Level	1 fixed length se	ction (62	oytes)	
422	(1A6)	CHARACTER	8	MVDCRSID	First data set create system ID
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)	UNSIGNED	2	MVDSKEPTBYCAT	Datasets Kept by Catalog
479	(1DF)	UNSIGNED	1	MVLAST_POSN	Last file end media position
480	(1E0)	UNSIGNED	4	MV_STV_VOLCOUNT	Volume count
Leve	l 2 fixed	length section (64 bytes)		1
			, ,		

Offset	Offset	Туре	Len	Name(Dim)	Description
Dec	Hex	.,,,,			
490	(1EA)	CHARACTER	8	MVDESTBINMEDIA	Destination bin media name
498	(1F2)	CHARACTER	6	MVVOL1	VOL1 label volume serial number
504	(1F8)	CHARACTER	8	MVVENDOR	Vendor information
512	(200)	CHARACTER	12	MVWWID	Unique world wide ID
524	(20C)	UNSIGNED	2	MVVWMC	Volume write mount count
526	(20E)	CHARACTER	8	MVMEDINF	Media information name
534	(216)	CHARACTER	4	MVEXPTM	Expiration time
538	(21A)	CHARACTER	4	MVLRDTIM	Last read time
542	(21E)	CHARACTER	4	MVLWTTIM	Last write time
546	(222)	UNSIGNED	1	MVESBEXPDTSETBY	Expiry date set by
547	(223)	UNSIGNED	1	MVRETENTIONMETHOD	Retention method
Lev	el 3 fixed	length section (64 bytes)		
548	(224)	UNSIGNED	1	MVRETMETSETBY	Retention method set by
549	(225)	UNSIGNED	1	MVEXPDT_RETAINBY	RM(EXPDT) retainBy option
552	(228)	SIGNED	8	MVTUSE64	Size in kilobytes
560	(230)	UNSIGNED	8	MVPHYS_USED	Vol. phys. space used in KB
Var	iable leng	th section			•
612	(264)	CHARACTER	400	MVVARSEC	Variable length section
612	(264)	UNSIGNED	1	MVDSN1L	Length of first data set name on volume
613	(265)	UNSIGNED	1	MVDSNLL	Length of last data set name on volume
614	(266)	UNSIGNED	1	MVACCLEN	Length of accounting field
615	(267)	UNSIGNED	1	MVUSELEN	Length of user description
616	(268)	UNSIGNED	1	MVACCLST	Number of entries in the user accessist
617	(269)	UNSIGNED	1	MVENCKEY1L	Length of encryption key 1
618	(26A)	UNSIGNED	1	MVENCKEY2L	Length of encryption key 2
624	(270)	CHARACTER	44	MVDSN1	Data set name of first file
668	(290)	CHARACTER	44	MVDSNL	Data set name of last file
712	(208)	CHARACTER	40	MVACCINF	Accounting information
752	(2F0)	CHARACTER	30	MVDESC	User description
752	(2F0)	CHARACTER	30	MVUSEFLD	User description
784	(310)	CHARACTER	96	MVAUTIDS	Authorized user IDs area
784	(310)	CHARACTER	8	MVAUTHID	First authorized user ID slot
880	(370)	CHARACTER	0	MVAUTHND	Authorized field end marker
880	(370)	CHARACTER	65	MVENCKEY1	Encryption key 1
880	(370)	CHARACTER	1	MVKEYENCOD1	Encoding mechanism 1, L or H
881	(371)	CHARACTER	64	MVKEYLABEL1	Encryption key label 1
945	(3B1)	CHARACTER	65	MVENCKEY2	Encryption key 2
945	(3B1)	CHARACTER	1	MVKEYENCOD2	Encoding mechanism 2, L or H
946	(3B2)	CHARACTER	64	MVKEYLABEL2	Encryption key label 2

Table 64. Structure MVREC (continued)					
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
1010	(3F2)	CHARACTER	0	MVALLEND	All fields end marker
1012	(3F4)	CHARACTER	0	MVRCEND	End of macro

	Туре	Value	Name	Description
Len	туре	value	wame	Description
	Constants			
1	CHARACTER	V	MVTYPEID	Volume type ID
1	CHARACTER	3	MVDEN3	1600 bpi
1	CHARACTER	4	MVDEN4	6250 bpi
1	CHARACTER	9	MVDEN9	3480
1	CHARACTER	С	MVDENC	3480 compacted (IDRC)
1	CHARACTER	*	MVDENU	Undefined
1	HEX	01	MVSTS001	Tape library to remote store
1	HEX	02	MVSTS002	Remote store to tape library
1	HEX	03	MVSTS003	Tape library to local store
1	HEX	04	MVSTS004	Local store to tape library
1	HEX	05	MVSTS005	Local store to distant store
1	HEX	06	MVSTS006	Tape library to distant store
1	HEX	07	MVSTS007	Distant store to tape library
1	HEX	09	MVSTS009	Store location valid
1	NUMB HEX	00	MVALNOV	No Label version
1	NUMB HEX	01	MVALVE1	Label version 1
1	NUMB HEX	03	MVALVE3	Label version 3
1	NUMB HEX	04	MVALVE4	Label version 4
1	CHARACTER	D	MVSTIDD	Distant store
1	CHARACTER	L	MVSTIDL	Local store
1	CHARACTER	R	MVSTIDR	Remote store
1	CHARACTER	Т	MVSTIDT	Tape library
1	NUMB HEX	00	MVVOLTYPE_PHYSICAL	
1	NUMB HEX	01	MVVOLTYPE_LOGICAL	
1	NUMB HEX	02	MVVOLTYPE_STACKED	
	Constants	for MvEsbExpdtSetBy		·
1	DECIMAL	0	MVESB_UNKNOWN	unknown or not set
1	DECIMAL	1	MVESB_CMD	command
1	DECIMAL	2	MVESB_CMD_DEF	command from default RETPD
1	DECIMAL	3	MVESB_CMD_VOLCAT	command from VOLCAT
1	DECIMAL	4	MVESB_OCE_JFCB	O/C/EoV from JFCB
1	DECIMAL	5	MVESB_OCE_EXIT	O/C/EoV from EDG_EXIT100
1	DECIMAL	6	MVESB_OCE_DEF	O/C/EoV from default RETPD

016 03	5. Constants for MV			
Len	Туре	Value	Name	Description
1	DECIMAL	7	MVESB_OCE_MAX	O/C/EoV from MAXRETPD
1	DECIMAL	8	MVESB_OCE_VOLCAT	O/C/EoV from VOLCAT
1	DECIMAL	9	MVESB_LCS	Library Control System
1	DECIMAL	10	MVESB_LCS_DEF	LCS from default RETPD
1	DECIMAL	11	MVESB_TVEXTPURGE	TVEXTPURGE interface
1	DECIMAL	12	MVESB_CNVT	conversion
1	DECIMAL	13	MVESB_EXPORT	export to stacked volume
1	DECIMAL	14	MVESB_LASTREF	last reference event
1	DECIMAL	15	MVESB_OCE_MC	O/C/EoV from Mgmt class
1	DECIMAL	16	MVESB_CATRETPD	hours after creation time
1	DECIMAL	17	MVESB_CATLG_DAYS	Cat Days after DS is UNCTLG
1	DECIMAL	18	MVESB_DEFTABLE	defaults table
1	DECIMAL	0 1 Dr MvRetMetSetBy	MVRM_VRSEL MVRM_EXPDT	VRSEL EXPDT
1 	DECIMAL Constants fo	1 Dr MvRetMetSetBy	MVRM_EXPDT	EXPDT
1	Constants fo	1 Dr MvRetMetSetBy	MVRM_EXPDT MVRMSB_UNDEFINED	EXPDT
1 1 1	DECIMAL Constants for DECIMAL DECIMAL	1 or MvRetMetSetBy 0 1	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD	EXPDT undefined command
1 1 1 1	DECIMAL DECIMAL DECIMAL DECIMAL	1 Or MvRetMetSetBy 0 1 2	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF	undefined command command from parmlib option
1 1 1 1	DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL	1 Or MvRetMetSetBy 0 1 2 3	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF	undefined command command from parmlib option 0/C/EoV from parmlib option
1 1 1 1 1	DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL	1 Or MvRetMetSetBy 0 1 2 3 4	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT	undefined command command from parmlib option O/C/EoV from parmlib option O/C/EoV from EDG_EXIT100
1 1 1 1 1 1	DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL DECIMAL	1 Or MvRetMetSetBy 0 1 2 3 4 5	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF	undefined command command from parmlib option 0/C/EoV from parmlib option
1 1 1 1 1	DECIMAL	1 Or MvRetMetSetBy 0 1 2 3 4	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT	undefined command command from parmlib option 0/C/EoV from parmlib option 0/C/EoV from EDG_EXIT100 LCS from parmlib option conversion
1 1 1 1 1 1	DECIMAL	1 Or MvRetMetSetBy 0 1 2 3 4 5	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF	undefined command command from parmlib option O/C/EoV from parmlib option O/C/EoV from EDG_EXIT100 LCS from parmlib option conversion export from parmlib option
1 1 1 1 1 1 1	DECIMAL	1 Dr MvRetMetSetBy 0 1 2 3 4 5	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF MVRMSB_CNVT	undefined command command from parmlib option 0/C/EoV from parmlib option 0/C/EoV from EDG_EXIT100 LCS from parmlib option conversion
1 1 1 1 1 1 1	DECIMAL	1 Or MvRetMetSetBy 0 1 2 3 4 5 6 7	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF MVRMSB_CNVT MVRMSB_EXPORT_DEF	undefined command command from parmlib option O/C/EoV from parmlib option O/C/EoV from EDG_EXIT100 LCS from parmlib option conversion export from parmlib option EDGINERS from parmlib option O/C/EoV from MC attributes
1 1 1 1 1 1 1 1	DECIMAL	1 Dr MvRetMetSetBy 0 1 2 3 4 5 6 7	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF MVRMSB_CNVT MVRMSB_EXPORT_DEF MVRMSB_INERS_DEF	undefined command command from parmlib option 0/C/EoV from parmlib option 0/C/EoV from EDG_EXIT100 LCS from parmlib option conversion export from parmlib option EDGINERS from parmlib option
1 1 1 1 1 1 1 1	DECIMAL	1 Or MvRetMetSetBy 0 1 2 3 4 5 6 7 8 9	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF MVRMSB_CNVT MVRMSB_EXPORT_DEF MVRMSB_INERS_DEF MVRMSB_MC_ATTR MVRMSB_DEFTABLE	undefined command command from parmlib option O/C/EoV from parmlib option O/C/EoV from EDG_EXIT100 LCS from parmlib option conversion export from parmlib option EDGINERS from parmlib option O/C/EoV from MC attributes
1 1 1 1 1 1 1 1	DECIMAL Constants for the constant for the co	1 Dr MvRetMetSetBy 0 1 2 3 4 5 6 7 8 9 10	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF MVRMSB_CNVT MVRMSB_EXPORT_DEF MVRMSB_INERS_DEF MVRMSB_MC_ATTR MVRMSB_DEFTABLE	undefined command command from parmlib option O/C/EoV from parmlib option O/C/EoV from EDG_EXIT100 LCS from parmlib option conversion export from parmlib option EDGINERS from parmlib option O/C/EoV from MC attributes
1 1 1 1 1 1 1 1 1 1 1 1	DECIMAL Constants for the constant for the co	1 Dr MvRetMetSetBy 0 1 2 3 4 5 6 7 8 9 10 Dr MvEXPDT_RetainBy	MVRM_EXPDT MVRMSB_UNDEFINED MVRMSB_CMD MVRMSB_CMD_DEF MVRMSB_OCE_DEF MVRMSB_OCE_EXIT MVRMSB_LCS_DEF MVRMSB_CNVT MVRMSB_EXPORT_DEF MVRMSB_INERS_DEF MVRMSB_INERS_DEF MVRMSB_MC_ATTR MVRMSB_DEFTABLE	undefined command command from parmlib option O/C/EoV from parmlib option O/C/EoV from EDG_EXIT100 LCS from parmlib option conversion export from parmlib option EDGINERS from parmlib option O/C/EoV from MC attributes defaults table

Table 66. Cross Reference for MVREC			
Name	0ffset	Hex Tag	Leve 1
MV_STV_VOLCOUNT	1E0		2
MVACCINF	2C8		3
MVACCLEN	266		3

Table 66. Cross Reference for MVREC (continued)			
Name	Offset	Hex Tag	Leve 1
MVACCLST	268		3
MVALCUR	F2		3
MVALLEND	3F2		3
MVALREQ	F3		3
MVALTAPE	ED	10	3
MVALVERS	F2		2
MVASDATE	C8		3
MVASDATM	C8		2
MVASSFLG	EC	10	4
MVASTIME	СС		3
MVATIFLG	E9	02	3
MVAUTHID	310		4
MVAUTHND	370		3
MVAUTIDS	310		3
MVBLKID	11A		2
MVBLTAPE	ED	02	3
MVCAPACITY	144		2
MVCFLG	74		2
MVCONTAINER	1AE		2
MVCONTAINER_STV	1AE		3
MVCOPEXP	13F	10	3
MVCRDATE	ЗС		2
MVCRJOB	EO		2
MVCRSID	44		2
MVCRTIME	40		2
MVCRUID	D8		2
MVDCRSID	1A6		2
MVDEFRET	ED	80	3
MVDEGAUS	EE	10	4
MVDEGAUS	F0	10	4
MVDELFLG	74	80	3
MVDEN	85		2
MVDESC	2F0		3
MVDEST	160		2
MVDESTBIN	1E4		2
MVDESTBINMEDIA	1EA		2
MVDSKEPTBYCAT	1D6		2
MVDSNL	29C		3
MVDSNLL	265		3
MVDSNNO	86		2
MVDSN1	270		3
MVDSN1L	264		3

Table 66. Cross Reference for MVREC (continued)	<u> </u>		
Name	Offset	Hex Tag	Leve 1
MVDTYFLG	140	0F	4
MVDUMMY	74	08	3
MVEDM	1A5	04	3
MVENCKEY1	370		3
MVENCKEY1L	269		3
MVENCKEY2	3B1		3
MVENCKEY2L	26A		3
MVENTFLG	E9	10	3
MVERRCNT	112		2
MVESBEXPDTSETBY	222		2
MVEXPDT	80		2
MVEXPDT_RETAINBY	225		2
MVEXPDTO	7C		2
MVEXPTM	216		2
MVEXPTOKEN	1CE		2
MVEXRFLG	EC	01	4
MVEXTBINAPPLIED	13F	20	3
MVF_KBTRV	1A5	10	3
MVFABEND	E9	08	3
MVFEAT	12C		3
MVFLGA	EC		3
MVFLGAX	E9		2
MVFLGB	ED		2
MVFLGC	EE		2
MVFLGD	EF		2
MVFLGE	FO		2
MVFLGF	1A5		2
MVFOCEAB	E9	04	3
MVFORCE	E9	01	3
MVGMT1	74	02	3
MVGMT2	74	01	3
MVGVCFLG	E9	80	3
MVHLOC	148		2
MVHOLD	1A5	20	3
MVHTYFLG	141	F0	4
MVINIFLG	E9	20	3
MVIRMMUSE	1A5	01	3
MVKEY	0		2
MVKEYENCOD1	370		4
MVKEYENCOD2	3B1		4
MVKEYLABEL1	371		4
MVKEYLABEL2	3B2		4

Table 66. Cross Reference for MVREC (continued)		1	
Name	Offset	Hex Tag	Leve 1
MVLABNO1	90		2
MVLAST_POSN	1DF		2
MVLCDATE	54		2
MVLCSID	64		2
MVLCTIME	58		2
MVLCTOKN	190		2
MVLCUID	5C		2
MVLOC	158		2
MVLOCFLG	13F		2
MVLONFLG	EC	08	4
MVLONLOC	В0		2
MVLRDDAT	СО		2
MVLRDTIM	21A		2
MVLTYFLG	13F	0F	3
MVLTYP	F1		2
MVLUDEV	AC		2
MVLWTDAT	C4		2
MVLWTTIM	21E		2
MVMEDATR	95		3
MVMEDCMP	94		3
MVMEDIA	F4		2
MVMEDINF	20E		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
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
MVOLDRACK	196		2
MVOLDVOLSER	190		2
MVOLNLOC	B8		2

Table 66. Cross Reference for MVREC (continued)			
Name	Offset	Hex Tag	Leve 1
MVOLOC	168		2
MVOPNFLG	EC	04	4
MVOPVOL	131		2
MVOREAD	EF	80	3
MVOTYFLG	141	0F	4
MVOUPD	EF	40	3
MVOWNID	D0		2
MVPAD1	8		3
MVPDLFLG	74	40	3
MVPHYS_USED	230		2
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	3F4		2
MVRDEN	84		2
MVREC	Θ		1
MVRECLEV	75		2
MVRECLN	38		2
MVRECORD	Θ		2
MVREINIT	EE	20	4
MVREINIT	F0	20	4
MVRELACT	EE	7F	3
MVRELACT	F0	7F	3
MVREPREL	EE	40	4
MVREPREL	F0	40	4
MVRETDAT	18C		2
MVRETENTIONMETHOD	223		2
MVRETMETSETBY	224		2
MVRETSCR	EE	80	3
MVRETSCR	F0	80	3
MVRLSFLG	EC	40	4
MVROWNER	EE	08	4
MVROWNER	F0	08	4
MVRQPRTY	142		2

Table 66. Cross Reference for MVREC (continued)	1		Γ.
Name	Offset	Hex Tag	Leve 1
MVSCRFLG	EC	02	4
MVSECLEV	E8		2
MVSELFLG	74	10	3
MVSETDUMMY	74	04	3
MVSGNAME	150		2
MVSLTAPE	ED	08	3
MVSTBIN	A0		2
MVSTDATE	A8		2
MVSTORID	96		2
MVSTSTAT	8E		2
MVTCOMP	130	08	3
MVTDSI	92		2
MVTNCOMP	130	04	3
MVTOKEN	137		2
MVTRERR	112		3
MVTRNFLG	13F	80	3
MVTRTCH	130		2
MVTUSE	88		2
MVTUSE64	228		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
MVUPDFLG	74	20	3
MVUSBIN	170		2
MVUSE	8C		2
MVUSEFLD	2F0		4
MVUSELEN	267		3
MVUSOBIN	17E		2
MVVARSEC	264		2
MVVENDOR	1F8		2
MVVER	126		3
MVVMUSE	EF	02	3
MVVOLSEQ	EA		2
MVVOLSER	2		3
MVVOLTYPE	1A4		2

Table 66. Cross Reference for MVREC (continued)				
Name	Offset	Hex Tag	Leve 1	
MVV0L1	1F2		2	
MVVRFLG	EC	20	4	
MVVRFSCI	8F	40	3	
MVVRFXDI	8F	80	3	
MVVRSREL	8F		2	
MVVWMC	20C		2	
MVWHILECATUX	1A5	08	3	
MVWORM	1A5	40	3	
MVWWID	200		2	
MVXINFLG	E9	40	3	

SMF type 42 subtypes information: IGWSMF

IGWSMF maps the header and triplets sections of the SMF type 42 subtypes used by DFSMSrmm. For SMF records in the user-written range, continue to use EDGSMFAR and EDGSMFSR. This macro can be used to map only the common SMF type 42 header, like this:

name IGWSMF

or, to generate the header and, optionally, subtype 22 or 23 mappings, like this:

name IGWSMF SMF42_0M=YES,SMF42_0N=YES

```
Header for SMF record type 42
```

ble 67. Structure SMF42						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description	
0	(0)	STRUCTURE	36	SMF42	SMF42BAS is the basing expr.	
0	(0)	UNSIGNED	2	SMF42RCL	Record Length	
2	(2)	UNSIGNED	2	SMF42SGD	Segment Descriptor (RDW) 0 if record is not spanned	
4	(4)	BIT(8)	1	SMF42FLG	System indicator flags	
		1		SMF42FSI	When set=subsystem id follows system id	
		.1		SMF42FSU	When set = subtypes are used	
		1		SMF42FXA	When set = MVS/XA (SMF enters)	
		1.		SMF42FS2	When set = VS2 (SMF enters)	
		1		SMF42FS1	When set = VS1 (SMF enters)	
5	(5)	UNSIGNED	1	SMF42RTY	Record type: 42 (X'2A')	
6	(6)	UNSIGNED	4	SMF42TME	Record written time (entered by SMF)	
10	(A)	CHARACTER	4	SMF42DTE	Record written date (by SMF)	
14	(E)	CHARACTER	4	SMF42SID	System identification (by SMF)	
18	(12)	CHARACTER	4	SMF42SSI	Subsystem Id	
22	(16)	UNSIGNED	2	SMF42STY	Record subtype	

IGWSMF

Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description
24	(18)	UNSIGNED	2	SMF42NT	Number of triplets (optional)
Pro	duct secti	on triplet			
28	(1C)	UNSIGNED	4	SMF420PS	Offset to product section
32	(20)	UNSIGNED	2	SMF42LPS	Length of product section
	(00)	UNSIGNED	2	SMF42NPS	Number of product sections
34	(22)	UNSTUNED	I		· · · · · • • • · · · · · · · · · · · ·
-		nd on word bounda	ry		

Product Section

Table 68. Str	Table 68. Structure SMF42PRD						
Offset Dec	Offset Hex		Len	Name(Dim)	Description		
0	(0)	STRUCTURE	40	SMF42PRD			
0	(0)	CHARACTER	8	SMF42PDL	Product Level		
8	(8)	CHARACTER	10	SMF42PDN	Product Name		
18	(12)	UNSIGNED	1	SMF42PSV	Subtype version number		
20	(14)	CHARACTER	8	SMF42PTS	Intrval Start or Open TOD		
28	(10)	CHARACTER	8	SMF42PTE	Interval End or Close TOD		

SMF42 subtype 22 header section (DFSMSrmm Audit Information)

Table 69. Str	Table 69. Structure SMF42SM							
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description			
0	(0)	STRUCTURE	16	SMF42SM				
0	(0)	UNSIGNED	4	SMF4222AUD	Offset to audit section			
4	(4)	UNSIGNED	2	SMF4222LAD	Length of audit section			
6	(6)	UNSIGNED	2	SMF4222NAD	Number of audit sections			
8	(8)	UNSIGNED	4	SMF4222REC	Offset to record section			
12	(C)	UNSIGNED	2	SMF4222LRC	Length of record section			
14	(E)	UNSIGNED	2	SMF4222NRC	Number of record sections			
16	(10)	CHARACTER	0	SMF4222END	Audit section end			

Subtypes 12, 13, and 14 are not in use at this time

DFSMSrmm Audit Information (SMF 42 subtype 22)
Audit Section

ble 70. Structure SMF420MA						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description	
0	(0)	STRUCTURE	76	SMF420MA		
0	(0)	CHARACTER	8	SMF42MJBN	Job name	
8	(8)	CHARACTER	4	SMF42MRST	Reader start time	
12	(C)	CHARACTER	4	SMF42MRSD	Reader start date	
16	(10)	CHARACTER	8	SMF42MUID	RACF user id	
24	(18)	CHARACTER	1	SMF42MACT	Activity type:	
25 1	D - Recor	d changed d deleted		CNEADNESS	[F] 4	
25	(19)	(-)	1	SMF42MFG1	Flag 1	
		1		SMF42MLIS	Last in set	
		.1		SMF42MJRN	Journal record available	
26	(1A)	BIT(8)	1	SMF42MCVTSFLG	Virtual tape server flag	
27	(1B)	BIT(8)	1	SMF42MCENABLE	Control record enable flag	
28	(10)	CHARACTER	8	SMF42MLDTO	Local time/date offset	
36	(24)	SIGNED	4	SMF42MCJNRECN	Journal record number	
40	(28)	SIGNED	4	SMF42MJNRECN	Number of next jn rec	
44	(2C)	SIGNED	4	SMF42MCUPDVSI	VSI when MCUPDACT set on	
48	(30)	SIGNED	4	SMF42MCVSICNT	VSI control count	
52	(34)	CHARACTER	8	SMF42MCVRLCTK	VRSEL last change token	
60	(3C)	SIGNED	4	SMF42MCVRSCNT	Current VRS change counter	
64	(40)	SIGNED	4	SMF42MCVRSRUN	Last HSKP VRS change counter	
68	(44)	CHARACTER	8	SMF42MCSYNCTS	Catsynch time stamp	
68	(44)	CHARACTER	4	SMF42MCSYNCDT	Catsynch date	
72	(48)	CHARACTER	4	SMF42MCSYNCTM	Catsynch time	
76	(4C)	CHARACTER	0	SMF42MEND	1st data section end	

Len	Туре	Value	Name	Description
4	DECIMAL	16	SMF4222LEN	
4	DECIMAL	36	SMF42LN	Length of beginning SMF42 header section
_				
-	Product secti	on must end on word	boundary	
4		on must end on word	boundary SMF42PLN	Product Section Len
4			-	Product Section Len Product Section Version

Table 72. Cross Reference for SMF42						
Name	0ffset	Hex Tag	Leve 1			
SMF42	0		1			
SMF42DTE	А		2			

Table 72. Cross Reference for SMF42 (continued)			
Name	Offset	Hex Tag	Leve 1
SMF42END	24		2
SMF42FLG	4		2
SMF42FSI	4	80	3
SMF42FSU	4	40	3
SMF42FS1	4	01	3
SMF42FS2	4	02	3
SMF42FXA	4	04	3
SMF42LPS	20		2
SMF42MACT	18		2
SMF42MCENABLE	1B		2
SMF42MCJNRECN	24		2
SMF42MCSYNCDT	44		3
SMF42MCSYNCTM	48		3
SMF42MCSYNCTS	44		2
SMF42MCUPDVSI	2C		2
SMF42MCVRLCTK	34		2
SMF42MCVRSCNT	3C		2
SMF42MCVRSRUN	40		2
SMF42MCVSICNT	30		2
SMF42MCVTSFLG	1A		2
SMF42MEND	4C		2
SMF42MFG1	19		2
SMF42MJBN	0		2
SMF42MJNRECN	28		2
SMF42MJRN	19	40	3
SMF42MLDTO	10		2
SMF42MLIS	19	80	3
SMF42MRSD	С		2
SMF42MRST	8		2
SMF42MUID	10		2
SMF42NPS	22		2
SMF42NT	18		2
SMF420PS	10		2
SMF42PDL	0		2
SMF42PDN	8		2
SMF42PRD	0		1
SMF42PSV	12		2
SMF42PTE	10		2
SMF42PTS	14		2
SMF42RCL	0		2
SMF42RTY	5		2
SMF42SGD	2		2

Table 72. Cross Reference for SMF42 (continued)							
Name	Offset	Hex Tag	Leve 1				
SMF42SID	Е		2				
SMF42SM	0		1				
SMF42SSI	12		2				
SMF42STY	16		2				
SMF42TME	6		2				
SMF420MA	0		1				
SMF4222AUD	0		2				
SMF4222END	10		2				
SMF4222LAD	4		2				
SMF4222LRC	С		2				
SMF4222NAD	6		2				
SMF4222NRC	Е	·	2				
SMF4222REC	8		2				

Header for SMF record type 42	

Table 73. Structure SMF42							
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
0	(0)	STRUCTURE	36	SMF42	SMF42BAS is the basing expr.		
0	(0)	UNSIGNED	2	SMF42RCL	Record Length		
2	(2)	UNSIGNED	2	SMF42SGD	Segment Descriptor (RDW) 0 if record is not spanned		
4	(4)	BIT(8)	1	SMF42FLG	System indicator flags		
		1		SMF42FSI	When set=subsystem id follows system id		
		.1		SMF42FSU	When set = subtypes are used		
		1		SMF42FXA	When set = MVS/XA (SMF enters)		
		1.		SMF42FS2	When set = VS2 (SMF enters)		
		1		SMF42FS1	When set = VS1 (SMF enters)		
5	(5)	UNSIGNED	1	SMF42RTY	Record type: 42 (X'2A')		
6	(6)	UNSIGNED	4	SMF42TME	Record written time (entered by SMF)		
10	(A)	CHARACTER	4	SMF42DTE	Record written date (by SMF)		
14	(E)	CHARACTER	4	SMF42SID	System identification (by SMF)		
18	(12)	CHARACTER	4	SMF42SSI	Subsystem Id		
22	(16)	UNSIGNED	2	SMF42STY	Record subtype		
24	(18)	UNSIGNED	2	SMF42NT	Number of triplets (optional)		
Pro	Product section triplet						
28	(10)	UNSIGNED	4	SMF420PS	Offset to product section		
32	(20)	UNSIGNED	2	SMF42LPS	Length of product section		
34	(22)	UNSIGNED	2	SMF42NPS	Number of product sections		

IGWSMF

Table 73. Str	Table 73. Structure SMF42 (continued)							
Offset Dec	Offset Hex		Len	Name(Dim)	Description			
Неа	Header must end on word boundary							
36	(24)	CHARACTER	0	SMF42END	1st data section triplet			

Product Section

Table 74. Str	Fable 74. Structure SMF42PRD						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description		
0	(0)	STRUCTURE	40	SMF42PRD			
0	(0)	CHARACTER	8	SMF42PDL	Product Level		
8	(8)	CHARACTER	10	SMF42PDN	Product Name		
18	(12)	UNSIGNED	1	SMF42PSV	Subtype version number		
20	(14)	CHARACTER	8	SMF42PTS	Intrval Start or Open TOD		
28	(10)	CHARACTER	8	SMF42PTE	Interval End or Close TOD		

SMF42 subtype 23 header section (DFSMSrmm Security Information)

Table 75. Str	Table 75. Structure SMF42SN							
Offset Dec	Offset Hex		Len	Name(Dim)	Description			
0	(0)	STRUCTURE	8	SMF42SN				
0	(0)	UNSIGNED	4	SMF4223SEC	Offset to security section			
4	(4)	UNSIGNED	2	SMF4223LSC	Length of security section			
6	(6)	UNSIGNED	2	SMF4223NSC	Number of security sections			
8	(8)	CHARACTER	0	SMF4223END	Security section end			

Subtypes 12, 13, and 14 are not in use at this time

DFSMSrmm Security Information (SMF 42 subtype 23)
Security Section

Table 76. Str	Table 76. Structure SMF420NA						
Offset Dec	Offset Hex		Len	Name(Dim)	Description		
0	(0)	STRUCTURE	114	SMF420NA			
0	(0)	CHARACTER	8	SMF42NJBN	Job name		
8	(8)	CHARACTER	4	SMF42NRST	Reader start time		
12	(C)	CHARACTER	4	SMF42NRSD	Reader start date		
16	(10)	CHARACTER	8	SMF42NUIF	User identification		
24	(18)	CHARACTER	8	SMF42NUID	RACF user id		

Table 76. Structure SMF420NA (continued)						
Offset Dec	Offset Hex	Туре	Len	Name(Dim)	Description	
32	(20)	CHARACTER	8	SMF42NCGP	RACF connect group	
40	(28)	CHARACTER	1	SMF42NVER	Record version identifier (2)	
41	(29)	CHARACTER	1	SMF42NACT	Activity type:	
	C - Dataset create E - Dataset extend U - Dataset update R - Dataset read access D - Dataset delete					
42	(2A)	BIT(8)	1	SMF42NSTP	Security type	
	(classifi	cation number)				
44	(2C)	CHARACTER	44	SMF42NDSN	Dataset name	
88	(58)	CHARACTER	6	SMF42NVOL	Volume serial number	
94	(5E)	CHARACTER	8	SMF42NUNT	Device type	
102	(66)	UNSIGNED	2	SMF42NDSQ	Dataset sequence number	
104	(68)	CHARACTER	2	SMF42NVSQ	Volume sequence number	
106	(6A)	CHARACTER	8	SMF42NLDT0	Local time/date offset	
114	(72)	CHARACTER	0	SMF42NEND	1st data section end	

Len	Туре	Value	Name	Description
4	DECIMAL	8	SMF4223LEN	
4	DECIMAL	36	SMF42LN	Length of beginning SMF42 header section
-				
-	Product sect	ion must end on word b	oundary	
4	·	ion must end on word b	oundary SMF42PLN	Product Section Len
4	г			Product Section Len Product Section Version

Table 78. Cross Reference for SMF42			
Name	Offset	Hex Tag	Leve 1
SMF42	0		1
SMF42DTE	A		2
SMF42END	24		2
SMF42FLG	4		2
SMF42FSI	4	80	3
SMF42FSU	4	40	3
SMF42FS1	4	01	3
SMF42FS2	4	02	3
SMF42FXA	4	04	3
SMF42LPS	20		2
SMF42NACT	29		2

IGWSMF

Table 78. Cross Reference for SMF42 (continued)	Offset	Hex Tag	Leve
Name	UTISET	Hex Tag	Leve 1
SMF42NCGP	20		2
SMF42NDSN	20		2
SMF42NDSQ	66		2
SMF42NEND	72		2
SMF42NJBN	0		2
SMF42NLDTO	6A		2
SMF42NPS	22		2
SMF42NRSD	С		2
SMF42NRST	8		2
SMF42NSTP	2A		2
SMF42NT	18		2
SMF42NUID	18		2
SMF42NUIF	10		2
SMF42NUNT	5E		2
SMF42NVER	28		2
SMF42NVOL	58		2
SMF42NVSQ	68		2
SMF420PS	10		2
SMF42PDL	0		2
SMF42PDN	8		2
SMF42PRD	0		1
SMF42PSV	12		2
SMF42PTE	1C		2
SMF42PTS	14		2
SMF42RCL	0		2
SMF42RTY	5		2
SMF42SGD	2		2
SMF42SID	E		2
SMF42SN	0		1
SMF42SSI	12		2
SMF42STY	16		2
SMF42TME	6		2
SMF420NA	0		1
SMF4223END	8		2
SMF4223LSC	4		2
SMF4223NSC	6		2
SMF4223SEC	0		2

Appendix C. List of DFSMSrmm samples

DFSMSrmm provides several samples in SAMPLIB, SMPSTS, and SYS1.SEDGEXE1. Table 79 on page 327 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 79. 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
EDGJCEXP	List data sets and volumes that are copy exported	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
EDGJMVRS	Call the EDGMKVRS sample REXX to create a list of ADDVRS commands for backup purposes	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
EDGJSTM0	Check for removed Rexx stem .0 variables.	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

Table 79. DFSMSrmm sample reporting jobs (continued)					
Member Name	Shows You How To	Supplied In			
EDGJVOL	Create a report about volumes sorted by volume serial number	SAMPLIB			
EDGMKVRS	Use the report extract data set to create a list of ADDVRS commands for backup purposes	SAMPLIB			
EDGRRPTE	Create reports using the 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			
EDGXMP3	Show how the EDGRLCL exec can be coded to handle the 'U' line command	SAMPLIB			

Appendix D. Accessibility

Accessible publications for this product are offered through IBM Documentation (www.ibm.com/docs/en/zos).

If you experience difficulty with the accessibility of any z/OS information, send a detailed message to the Contact the z/OS team web page (www.ibm.com/systems/campaignmail/z/zos/contact_z) or use the following mailing address.

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Accessibility features

Accessibility features help users who have physical disabilities such as restricted mobility or limited vision use software products successfully. The accessibility features in z/OS can help users do the following tasks:

- Run assistive technology such as screen readers and screen magnifier software.
- Operate specific or equivalent features by using the keyboard.
- Customize display attributes such as color, contrast, and font size.

Consult assistive technologies

Assistive technology products such as screen readers function with the user interfaces found in z/OS. Consult the product information for the specific assistive technology product that is used to access z/OS interfaces.

Keyboard navigation of the user interface

You can access z/OS user interfaces with TSO/E or ISPF. The following information describes how to use TSO/E and ISPF, including the use of keyboard shortcuts and function keys (PF keys). Each guide includes the default settings for the PF keys.

- z/OS TSO/E Primer
- z/OS TSO/E User's Guide
- z/OS ISPF User's Guide Vol I

Dotted decimal syntax diagrams

Syntax diagrams are provided in dotted decimal format for users who access IBM Documentation with a screen reader. In dotted decimal format, each syntax element is written on a separate line. If two or more syntax elements are always present together (or always absent together), they can appear on the same line because they are considered a single compound syntax element.

Each line starts with a dotted decimal number; for example, 3 or 3.1 or 3.1.1. To hear these numbers correctly, make sure that the screen reader is set to read out punctuation. All the syntax elements that have the same dotted decimal number (for example, all the syntax elements that have the number 3.1)

are mutually exclusive alternatives. If you hear the lines 3.1 USERID and 3.1 SYSTEMID, your syntax can include either USERID or SYSTEMID, but not both.

The dotted decimal numbering level denotes the level of nesting. For example, if a syntax element with dotted decimal number 3 is followed by a series of syntax elements with dotted decimal number 3.1, all the syntax elements numbered 3.1 are subordinate to the syntax element numbered 3.

Certain words and symbols are used next to the dotted decimal numbers to add information about the syntax elements. Occasionally, these words and symbols might occur at the beginning of the element itself. For ease of identification, if the word or symbol is a part of the syntax element, it is preceded by the backslash (\) character. The * symbol is placed next to a dotted decimal number to indicate that the syntax element repeats. For example, syntax element *FILE with dotted decimal number 3 is given the format 3 * FILE. Format 3* FILE indicates that syntax element FILE repeats. Format 3* * FILE indicates that syntax element * FILE repeats.

Characters such as commas, which are used to separate a string of syntax elements, are shown in the syntax just before the items they separate. These characters can appear on the same line as each item, or on a separate line with the same dotted decimal number as the relevant items. The line can also show another symbol to provide information about the syntax elements. For example, the lines 5.1*, 5.1 LASTRUN, and 5.1 DELETE mean that if you use more than one of the LASTRUN and DELETE syntax elements, the elements must be separated by a comma. If no separator is given, assume that you use a blank to separate each syntax element.

If a syntax element is preceded by the % symbol, it indicates a reference that is defined elsewhere. The string that follows the % symbol is the name of a syntax fragment rather than a literal. For example, the line 2.1 %0P1 means that you must refer to separate syntax fragment OP1.

The following symbols are used next to the dotted decimal numbers.

? indicates an optional syntax element

The question mark (?) symbol indicates an optional syntax element. A dotted decimal number followed by the question mark symbol (?) indicates that all the syntax elements with a corresponding dotted decimal number, and any subordinate syntax elements, are optional. If there is only one syntax element with a dotted decimal number, the ? symbol is displayed on the same line as the syntax element, (for example 5? NOTIFY). If there is more than one syntax element with a dotted decimal number, the ? symbol is displayed on a line by itself, followed by the syntax elements that are optional. For example, if you hear the lines 5 ?, 5 NOTIFY, and 5 UPDATE, you know that the syntax elements NOTIFY and UPDATE are optional. That is, you can choose one or none of them. The ? symbol is equivalent to a bypass line in a railroad diagram.

! indicates a default syntax element

The exclamation mark (!) symbol indicates a default syntax element. A dotted decimal number followed by the ! symbol and a syntax element indicate that the syntax element is the default option for all syntax elements that share the same dotted decimal number. Only one of the syntax elements that share the dotted decimal number can specify the ! symbol. For example, if you hear the lines 2? FILE, 2.1! (KEEP), and 2.1 (DELETE), you know that (KEEP) is the default option for the FILE keyword. In the example, if you include the FILE keyword, but do not specify an option, the default option KEEP is applied. A default option also applies to the next higher dotted decimal number. In this example, if the FILE keyword is omitted, the default FILE (KEEP) is used. However, if you hear the lines 2? FILE, 2.1, 2.1.1! (KEEP), and 2.1.1 (DELETE), the default option KEEP applies only to the next higher dotted decimal number, 2.1 (which does not have an associated keyword), and does not apply to 2? FILE. Nothing is used if the keyword FILE is omitted.

* indicates an optional syntax element that is repeatable

The asterisk or glyph (*) symbol indicates a syntax element that can be repeated zero or more times. A dotted decimal number followed by the * symbol indicates that this syntax element can be used zero or more times; that is, it is optional and can be repeated. For example, if you hear the line $5.1 \star$ data area, you know that you can include one data area, more than one data area, or no data area. If you hear the lines $3 \star$, 3 HOST, 3 STATE, you know that you can include HOST, STATE, both together, or nothing.

Notes:

- 1. If a dotted decimal number has an asterisk (*) next to it and there is only one item with that dotted decimal number, you can repeat that same item more than once.
- 2. If a dotted decimal number has an asterisk next to it and several items have that dotted decimal number, you can use more than one item from the list, but you cannot use the items more than once each. In the previous example, you can write HOST_STATE, but you cannot write HOST_HOST.
- 3. The * symbol is equivalent to a loopback line in a railroad syntax diagram.

+ indicates a syntax element that must be included

The plus (+) symbol indicates a syntax element that must be included at least once. A dotted decimal number followed by the + symbol indicates that the syntax element must be included one or more times. That is, it must be included at least once and can be repeated. For example, if you hear the line 6.1+ data area, you must include at least one data area. If you hear the lines 2+, 2 HOST, and 2 STATE, you know that you must include HOST, STATE, or both. Similar to the * symbol, the + symbol can repeat a particular item if it is the only item with that dotted decimal number. The + symbol, like the * symbol, is equivalent to a loopback line in a railroad syntax diagram.

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