

TapeSaverTM

Reports Manual

Release 2.3.0



UNICOM
SYSTEMS, INC.

TAPSAVRG23-01

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Contents

About This Manual	v
Audience	v
TapeSaver Documentation.....	vi
Customer Service	vii
Getting Customer Support from Our Web Site.....	vii
Diagnostic Information	vii
Chapter 1 TapeSaver Reports	1
Chapter 2 Master File Reports	5
Generating a Master File Report.....	6
Forecast Report	8
Activity Report	10
Excluded Datasets Report	12
Tape Pull List Report in Volser Order.....	14
Tape Pull List Report in Usage Order	16
Master File List Report	17
Chapter 3 Tape Catalog Reports	19
Candidate Report	20
Assigning National Currency Symbols in Reports.....	23
Dataset Locator Report.....	24
Tape Catalog List Report	26
Chapter 4 Dataset Migration History Report	29
Chapter 5	Operational Reports
	31
Reject List Report	32
Reject List Reason Codes.....	32
Execution Summary Report	36
Conflict Report.....	38
Cycle Control Status Report.....	40
Cycle Control Exception Report	41
Volume Copy Report.....	42
Unexpire Report.....	43
Index	45



About This Manual

TapeSaver provides a series of reports that show results obtained from the Master File, the tape management system catalog, and the History file. This manual provides an example of each report and describes each report field

Audience

This manual is intended for system administrators and operators responsible for managing tape storage at their site. Readers are expected to understand MVS and tape management concepts to interpret TapeSaver performance data shown in each report.

TapeSaver Documentation

The titles and descriptions of all TapeSaver manuals included with Release 2.3.0 are shown in the following list.

- *TapeSaver Release Notes*
Explains TapeSaver installation requirements, product enhancements, and a procedure to migrate to Release 2.3.0 from an earlier release.
- *TapeSaver Installation And Configuration Guide*
Describes procedures to install TapeSaver and configure it for use.
- *TapeSaver User Guide*
Describes typical uses for TapeSaver.
- *TapeSaver Reference Guide*
Provides a summary of commonly used TapeSaver reference information.
- *TapeSaver Report Guide*
Presents an example of each TapeSaver report and a description of each report field.
- *TapeSaver Messages and Codes*
Lists messages and codes generated by all TapeSaver components.

An online version of each manual is distributed on a compact disk (CD) as part of the TapeSaver Release 2.3.0 product package. These manuals can be viewed with Acrobat Reader with Search, which is a free viewing tool available from Adobe Corporation.

Included on the TapeSaver documentation CD is a file to install Acrobat Reader for PCs running a 32-bit release of Windows. Read the CD's readme.1st file for instructions to install Acrobat Reader.

The latest version of Acrobat Reader with Search can be downloaded from the Adobe Corporation web site:

<http://www.adobe.com/acrobat/>

Customer Service

UNICOM Systems Customer Service can be reached by the following methods:

Voice	818-838-0606
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E-mail	support@unicomsi.com

Normal business hours are from 7:00 a.m. to 4:00 p.m. Pacific Standard Time, Monday through Friday. Emergency customer service is available 24 hours a day, 7 days a week.

An answering service receives customer service calls beyond normal business hours. You may leave a message if it is not an urgent problem. A customer service representative will return your call at the start of the next business day.

Requests for urgent support outside of normal business hours are answered immediately. A customer service representative will be summoned to return your call. Leave a phone number where you can be reached. If you have not received a return call from a Customer Service representative within an hour of reporting the problem, please call back. Our customer service representative may be experiencing difficulties returning your call.

International customers should contact their local distributor to report any problems with a UNICOM Systems product.

Getting Customer Support from Our Web Site

A Support and Services web page provides Customer Service information about every UNICOM Systems product. Go to our internet site: www.unicomsi.com and select the Support tab at the top of the home page to get technical information on our products, report a problem, read our monthly newsletter, and more.

Diagnostic Information

This section describes diagnostic data you should collect before reporting a TapeSaver problem to UNICOM Systems Customer Service. Having this information ready beforehand will enable the customer service representative to resolve your problem more quickly.

- MVS and JES release numbers
- Related error messages
- Command or JCL used to submit the failing job
- Dump, if one is generated, and register contents from the JES log



Chapter 1 TapeSaver Reports

This manual describes reports produced by TapeSaver. Selecting option 6 from TapeSaver's Primary Option menu displays the Reporting screen shown below. The reports appear on the screen in three categories; Master file reports, tape catalog reports, and the History report. TapeSaver uses data from these three databases to create individual reports that show characteristic details about the tape storage environment and TapeSaver's historical activity.

```
TapeSaver V230 ----- REPORTING
SELECTION ==>

                        TAPESAVER REPORTING

TAPESAVER MASTER FILE REPORTS
 1 FORECAST      - FORECAST REPORT (STACK, VOLUME MOVE AND VOLUME COPY)
 2 ACTIVITY      - DATASETS STACKED AND TAPES VOLMOVED
 3 EXCLUSION     - DATASETS EXCLUDED FROM STACKING/VOLMOVE PROCESS
 4 PULL VOLSER   - TAPE PULL LIST IN VOLSER ORDER
 5 PULL USAGE    - TAPE PULL LIST IN TAPE USAGE ORDER
 6 LIST          - TAPESAVER MASTER FILE DETAIL

TAPE CATALOG REPORTS
 7 CANDIDATE     - CANDIDATE DATASETS REPORT
 8 DSN LOCATOR   - LIST TAPE DATASETS WITH GENERIC DSN(S)
 9 CATALOG LIST  - TAPE CATALOG CONTENTS DETAIL REPORT

TAPESAVER HISTORY FILE REPORTING
10 HISTORY       - TAPE DATASET MIGRATION HISTORY REPORT
```

Each report is created using a similar sequence of steps. First, you select the number corresponding to the report you want to create from the Reporting screen. Then, you select a run code from a historical listing of your TapeSaver jobs from a secondary screen that appears after selecting the report number. You enter an S in the Sel field next to the run that you want to use to create the report.

```
TapeSaver V230 ----- Row 1 to 1 of 1
COMMAND ==>                                SCROLL ==> PAGE

                        RUN EXCLUSION REPORT FROM EXISTING MASTER FILE

SEL      RUN      SUBMITTED
CODE     BY       DATE       TIME       DESCRIPTION
-----
01161207 USR1     04/25/00 12:08:17  EXCLUSION LIST FROM 04/20/00
***** Bottom of data *****
```



After that, a job submission screen appears. You have the choice of editing the JCL before submitting the job, or submitting the job directly from this screen. A valid job card must be entered on the job submission screen.

```

TapeSaver V230 ----- REPORTING
COMMAND ==>

                MASTER FILE REPORTING

REVIEW THE SPECIFICATIONS AND JOB CARDS BELOW:

    VIEW JCL (UNDER EDIT) INSTEAD OF SUBMIT JOB ==> Y

JOB CARDS:
==> //USR1TSAV JOB (DRP1),'TAPESAVER REPORTS',CLASS=A,NOTIFY=&SYSUID,
==> //                MSGCLASS=X
==>
==>
==>

                PRESS ENTER TO SUBMIT THE REPORTING JOB OR
                PRESS YOUR END KEY TO CANCEL
    
```

After the report generation job is finished you can browse the report in your JES log. Reports are listed as an 8-character name by DD name in the log.

Descriptions and examples of each report can be found in chapters 2, 3, and 4 of this manual. The following table lists each report and a page reference for more information.

Master File Reports	
Forecast	page 8
Activity	page 10
Excluded Datasets	page 12
Pull List in VOLSER Order	page 14
Pull List in Usage Order	page 16
Master File Detail	page 17
Tape Catalog Reports	
Candidate	page 20
Dataset Locator	page 24
Tape Catalog List	page 26
History File Report	
Migration History	page 29



In addition to the reports listed on the Reporting screen, TapeSaver batch jobs produce operational reports. These reports provide details about TapeSaver's current job processing. An operational report gives information about a particular aspect of TapeSaver processing for a single job.

After the TapeSaver batch job has finished, operational reports appear in the JES log as an 8-character name by DD name.

Operational reports are described in chapter 5. The following table lists operational reports and a page reference for more information:

Operational Reports	
Reject List	page 32
Execution Summary	page 36
Conflict Report	page 38
Cycle Control Status Report	page 40
Cycle Control Exception Report	page 41
Volume Copy Report	page 42
Unexpire Report	page 43



Chapter 2 Master File Reports

The TapeSaver Master File is a sequential control file created whenever a run definition is executed. TapeSaver creates several reports about a run with data obtained from the Master file. Options 1-6 of the TapeSaver Reporting screen select individual Master File reports.

Screen Option	Report Name	ddname	Purpose
1	Forecast Report	FORECAST	A detail forecast of activity to be performed. This report lists datasets scheduled for processing and their intended destination.
2	Activity Report	STACK	Detailed information about tape datasets processed on other tape volumes by this execution of TapeSaver. Details on the tape dataset at its original location and its new location are presented as an audit trail of activity.
3	Excluded Datasets Report	EXCLUDE	Lists all tape datasets excluded during processing because of some error or incompatibility detected during the run implementation phase of execution. This report also indicates what caused the dataset to be excluded.
4	Tape Pull List Volser Order	PULLVOL	Lists, in volser order, volsers of manually mounted tapes that will be called during processing. The list includes the number of scratch volumes.
5	Tape Pull List Usage Order	PULLORDR	Lists, in the order they will be needed, volsers of manually mounted tapes that will be called during stacking.
6	Master File List Report	LIST	Lists detail information in the TapeSaver Master File.

Generating a Master File Report

Enter the number of the report to generate a Master File report from the TapeSaver Reporting screen shown on [page 5](#).

- Option 1 – Forecast
- Option 2 – Activity
- Option 3 – Exclusion
- Option 4 – Pull Volser
- Option 5 – Pull Usage
- Option 6 – List

If you select options 1-6, TapeSaver displays a screen similar to the one shown below.

```

TapeSaver V230 ----- ROW 1 TO 4 OF 4
COMMAND ==>                               SCROLL ==> PAGE

                RUN FORECAST REPORT FROM EXISTING MASTER FILE

SEL      RUN      SUBMITTED
CODE     CODE     BY
-----
60291102  TSR      01/29/00  11:02:32  STACK ACCOUNTS RECEIVABLE DATASET
60291047  TSR      01/29/00  10:47:36  STACK PAYROLL DATASETS
60271038  TSR      01/27/00  10:38:08  STACK INVENTORY DATASETS
60231641  TSR      01/23/00  16:41:32  STACK DATASETS CREATED TODAY
***** BOTTOM OF DATA *****

```

This screen lists the jobs that have been run previously and descriptions to help you identify each job. The screen title indicates the type of the Master File report you selected. The most recent job is displayed at the top of the list. Enter S in the SEL field to the left of the job run code to select a job for a report.

When you select a job, the Master File Reporting screen is displayed similar to the example shown below. On the Master File Reporting screen, indicate whether you want to view the JCL before submitting the job.

```
TapeSaver V230 ----- REPORTING
COMMAND ==>

                MASTER FILE REPORTING

REVIEW THE SPECIFICATIONS AND JOB CARDS BELOW:

    VIEW JCL (UNDER EDIT) INSTEAD OF SUBMIT JOB ==> N

JOB CARDS:
==> //MYJOB JOB (999), 'JOBCARDINFO',MSGCLASS=W,CLASS=A
==>
==>
==>
==>

                PRESS ENTER TO SUBMIT THE REPORTING JOB OR
                PRESS YOUR END KEY TO CANCEL
```

- If you enter Y, TapeSaver enters ISPF Edit Mode and displays the JCL to generate this report. When you are ready, you can submit the job via the TSO SUBMIT command.
- If you enter N, TapeSaver submits the JCL and displays a message at the bottom of the screen indicating the job was submitted.

Press PF3 to return to the TapeSaver Reporting menu. You can view the report using your ISPF Browse facility.

The following sections of this chapter present examples of each Master File report

Forecast Report

The Forecast report shows the actions to be taken when a run definition is submitted. The report shows all datasets selected for processing and their intended destinations.

If you interrupt the execution of the TapeSaver job after the analysis phase, you can review this report to verify if the intended processing will go as planned. The Forecast report contains the following fields.

Field	Description															
INPUT																
VOLSER	Volser of the tape or DASD volume that holds the dataset to be stacked, moved, or copied to a new volume.															
MEDIA TYPE	Media type (cartridge, DASD, or reel) of the dataset to be placed on a new volume.															
DATASET NAME	Name of the dataset to be stacked to a new volume.															
FILE #	File number on the tape assigned to the input dataset.															
EXPIRATION DATE	Expiration date of the dataset to be stacked to a new volume. If the field is marked with an asterisk, the dataset contains one of the following tape management system keyword expiration dates: <table border="1" data-bbox="602 869 1279 1037"> <thead> <tr> <th>Type of dataset</th> <th>Expiration date</th> <th>Report Date Format</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>99365</td> <td>12/31/99*</td> </tr> <tr> <td>Catalog control</td> <td>99000</td> <td>01/00/99*</td> </tr> <tr> <td>Frequency control</td> <td>98DDD</td> <td>01/00/98* thru 12/31/98*</td> </tr> <tr> <td>Cycle control</td> <td>99CCC</td> <td>01/01/99* thru 12/30/99*</td> </tr> </tbody> </table>	Type of dataset	Expiration date	Report Date Format	Permanent	99365	12/31/99*	Catalog control	99000	01/00/99*	Frequency control	98DDD	01/00/98* thru 12/31/98*	Cycle control	99CCC	01/01/99* thru 12/30/99*
Type of dataset	Expiration date	Report Date Format														
Permanent	99365	12/31/99*														
Catalog control	99000	01/00/99*														
Frequency control	98DDD	01/00/98* thru 12/31/98*														
Cycle control	99CCC	01/01/99* thru 12/30/99*														
TAPE FREED	Indicates if the tape volume containing the input dataset to be stacked or moved will be freed for the scratch pool. Y Tape will be freed for the scratch pool. N Tape will not be freed.															
# VOLS	Number of volumes on which the dataset resides.															
OUTPUT																
VOLSER	Volser of the tape on which the tape dataset will be placed.															
FILE #	File number on the new tape assigned to the output dataset.															
NEW HLINDEX	The high-level index that will be used on the new output dataset. If this field is blank, the output dataset name will be the same as the input dataset name.															
MEDIA TYPE	Media type (cartridge or reel) of the tape on which the dataset will be placed.															
ATL	Y Going to ATL. N Not going to ATL.															
SIZE	Percentage of the output tape to be occupied by the dataset.															
SUMMARY STATISTICS																
PROJECTED COST SAVINGS	Estimated cost savings if this run definition is executed.															
NUMBER OF REELS FREED	Estimated number of tape reels freed if this run definition is executed.															
NUMBER OF CART FREED	Estimated number of tape cartridges freed.															
WILL BE AVAILABLE IN n DAYS	Number of days before freed tapes are available for scratch use.															
NUMBER OF INPUT MOUNTS	Estimated number of manual input tape mounts required by this job.															
NUMBER OF OUTPUT MOUNTS	Number of manual output tape mounts.															
NUMBER OF SCRATCH MOUNTS	Number of manual scratch tape mounts.															
ESTIMATED ELAPSED TIME	Number of minutes the processing is expected to take.															


```

REPORT RUN 07/07/2000 at 10:30:02                PAGE 8
TAPESAVER                                       VERSION xxx

                                FORECAST REPORT

----- INPUT -----
MEDIA          DATASET NAME
VOLSER TYPE    A312.MONTHLY.RECAP
012345 REEL    A212.WEEKLY.RECAP
...
...
...

----- OUTPUT -----
MEDIA
NEW FILE#  HINDEX  TYPE  ATL  SIZE
VOLSER  VOLS  FREED  #    DATE    FILE#  DATE    DATE
-----
012345  1    022100  3  B312  CART  N  1.00
012465  1    032101  2  B212  CART  N  1.00
...
...
...

                                END OF DATASET DETAIL SECTION

SUMMARY STATISTICS

PROJECTED COST SAVINGS: $4,525
  (REELS FREED * REEL COST) + (CARTS FREED * CART COST)

NUMBER OF REELS FREED: 127
NUMBER OF CART FREED:  398
WILL BE AVAILABLE IN 3 DAYS

                                MANUAL  AUTOMATED
                                -----
NUMBER OF INPUT MOUNTS:      288      149
NUMBER OF OUTPUT MOUNTS:    167      192
NUMBER OF SCRATCH MOUNTS:    23       47

ESTIMATED ELAPSED TIME: 118 MINUTES

***** END OF FORECAST REPORT *****

```



Activity Report

The Activity report provides detailed information about TapeSaver processing activity. It lists each file that was stacked, moved, or copied by a job. The Activity report also lists the original source volume and final target volume where the tape dataset was placed.

Use this report to verify that all processing went according to plan. If you chose to stack uncataloged files (and not catalog them after they were stacked), you can use this report to locate the datasets at some later date. You can also find the location of these datasets with the Dataset Migration History Report.

This report contains the following fields.

Field	Description															
INPUT VOLSER	Volser of the volume which contained the dataset before it was placed on a new volume.															
INPUT MEDIA TYPE	Media type (cartridge, DASD or reel) of the tape which contained the tape dataset before it was placed on a new volume.															
INPUT DATASET NAME	Name of the dataset which was placed on a new volume.															
LENGTH	The length is the percentage of a tape. For DASD datasets, the length will be the estimated length of the dataset on a standard, uncompressed 3480 cartridge.															
INPUT EXPIRES	Expiration date of the dataset before it was placed on a new volume. If this field is marked with an asterisk, the dataset contains one of the following tape management system keyword expiration dates. <table border="0"> <tr> <td>Type of dataset</td> <td>Expiration date</td> <td>How date is shown on report</td> </tr> <tr> <td>Permanent</td> <td>99365</td> <td>PERMANENT</td> </tr> <tr> <td>Catalog control</td> <td>99000</td> <td>CATALOG</td> </tr> <tr> <td>Frequency control</td> <td>98DDD</td> <td>LASTUSEDddd</td> </tr> <tr> <td>Cycle control</td> <td>99CCC</td> <td>CYCLE/ccc</td> </tr> </table>	Type of dataset	Expiration date	How date is shown on report	Permanent	99365	PERMANENT	Catalog control	99000	CATALOG	Frequency control	98DDD	LASTUSEDddd	Cycle control	99CCC	CYCLE/ccc
Type of dataset	Expiration date	How date is shown on report														
Permanent	99365	PERMANENT														
Catalog control	99000	CATALOG														
Frequency control	98DDD	LASTUSEDddd														
Cycle control	99CCC	CYCLE/ccc														
INPUT VOL FREE	Indicates if the volume which contained the dataset before processing was freed for the scratch tape pool. YES Volume was freed for the scratch tape pool. NO Volume not freed.															
OUTPUT VOLSER	Volser of the tape on which tape dataset was placed.															
OUTPUT NEW HINDEX	The high-level index used on the new output dataset. If this field is blank, the output dataset name is the same as the input dataset name.															
OUTPUT MEDIA TYPE	Media type (cartridge or reel) of the tape on which tape dataset was placed.															
OUTPUT FILE #	File number on the new tape of the dataset that was stacked, moved, or copied.															
CATALOG UPDATES TAPE	Y Tape catalog was updated with the new tape volume. N Tape catalog not updated.															
CATALOG UPDATES MASTER	Indicates whether the system master catalog was updated with the new tape volume. Y Recataloged on output. N Not cataloged. All catalog errors are also reported in the Exception report to make it easier for you to identify them.															

REPORT RUN 04/22/2000 at 10:30:02 PAGE 1
 TAPESAVER VERSION xxx

ACTIVITY REPORT

MEDIA		INPUT		LENGTH	EXPIRES	VOL	OUTPUT		-- CATALOG --		
VOLSER	TYPE	DATASET NAME		(%)		FREE	VOLSER	HLINDEX	MEDIA TYPE	FILE #	UPDATES
08932	CART	PROD.VENDOR.MASTER		32.00	01/31/2000	YES	18432	VAULT	CART	2	YES
01657	REEL	PRODA.A202MC02.P23.TXN90DAY.G1173V00		80.00	04/30/2000	NO	02111	VAULTA	CART	1	YES
01880	REEL	PRODA.A202MC02.P23.PURGE.G0014V00		12.00	06/19/2000	YES	02111	VAULTA	CART	2	YES
01882	REEL	PRODA.A202MC02.P23.TXN90DAY.G1176V00		23.00	08/23/2000	YES	02143	VAULTA	CART	2	YES
12302	CART	PROD.GL.A200J023.RECONCIL.DECEMBER		45.00	06/19/2000	YES	13211	VAULT	CART	4	YES
12345	CART	PROD.GL.A200J023.RECONCIL.NOVEMBER		34.00	05/19/2000	YES	12898	VAULT	CART	6	YES
15558	CART	PRODA.A222FRS.VALIDS.G0650V00		62.00	11/09/2000	NO	13233	VAULTA	CART	3	YES
					...						

Excluded Datasets Report

The Excluded Datasets report shows all datasets that were excluded from a TapeSaver job after being initially selected. TapeSaver excludes datasets from processing because errors or inconsistencies were detected during the implementation phase of execution. In addition to the dataset name, the Excluded Datasets report indicates the reason why the dataset was excluded.

The Excluded Datasets report is used primarily as an audit tool. You can use this report to verify that your processing was implemented as planned.

Note:

An Excluded Datasets report is produced only if datasets were excluded during the job.

The Excluded Datasets report contains the following fields.

Field	Description
DATASET NAME	Name of the dataset excluded from stacking analysis.
VOLSER	Volser on which the excluded dataset resides.
ERROR	Type of error or inconsistency that caused the dataset to be excluded. Refer to the table on page 13 for descriptions of errors that can exclude a dataset from processing.
DESCRIPTION	Explanation why the dataset was excluded.

Dataset Name		VOLSER	ERROR	DESCRIPTION
REPORT RUN 04/2120/00 AT 12:29:17 PAGE 1 VERSION xxx				
EXCLUDED DATASETS REPORT				
PROD.MIS.BAM.D100286.RERUNIN.FUTURE.DATA	002905	ALLOC	ALLOCATION FAILED	
PROD.MIS.TAM.D100286.RERUNIN.SUPBLK.TABL	002905	NOTGTVOL	NO TARGET VOLUME	
PROD.MIS.RAB.D101786.RERUNIN.SUPBLK.TABL	002991	TMC	TMC STATUS CHANGED	
PROD.MIS.FASB.J610.REPORTS	002775	MCAT	MCAT STATUS CHANGED	
PROD.MIS.B400.D041187.RERUNIN.FUTURE.DATA	002627	COPYFAIL	COPY FAILED	
***** END OF EXCLUDED DATASET REPORT *****				

The following table lists the errors that cause TapeSaver to exclude a dataset from processing..

Error	Description
ALLOC	An allocation for a dataset or device failed (input or output). Among other reasons, this may occur because of restrictions imposed by your security application. Examine the SYSOUT listing for any DYNALLOC error message(s).
COPYFAIL	An unrecoverable I/O error or ABEND occurred while copying the dataset from its current location to its new location (stacking, volume move or volume copy).
LOCATION	A dataset has been assigned to two conflicting locations, or to a location that uses incompatible tape media. Media incompatibilities occur when a dataset is to be placed on a media type that is incompatible with its location or group (e.g. STACK REEL to a 3480 location).
MCAT	The status of a dataset in the MVS catalog changed between the time the stacking analysis was performed on the rule packet and the time the dataset is about to be placed. A dataset is listed with an MCAT error if both of the following events occurred: <ul style="list-style-type: none"> • During the forecast run, the dataset was cataloged; however, the status changed to uncataloged before stacking occurred. • The run definition specified that uncataloged datasets should not be stacked.
MCATFAIL	An attempt to update the OS catalog failed after moving or stacking a dataset.
MULTLIST	A multi-volume dataset selected to be VOLMOVED included a tape volume that has multiple files. TapeSaver does not permit multi-dataset volumes to participate in VOLMOVE operations.
NOTGTVOL	No acceptable target (output) volume can be found for a dataset that has been selected for input.
OPTIONS	Tape dataset has conflicting stacking options associated with it. For example, a dataset with both STACK and NOSTACK commands, a dataset with STACK REEL and STACK CART options, or a dataset with two conflicting WITH clauses.
PREVFILE	The STACK, VOLMOVE, or VOLCOPY of this dataset was skipped for one of the following reasons: <ul style="list-style-type: none"> • An error was encountered on an earlier file on the tape. • The DEFAULTS FILTER SECONDARIES option was set to YES and a subsequent file on the tape was rejected.
TMC	The status of a dataset in the TMC changed between the time the stacking analysis was performed on the rule packet and the time the dataset in question was about to be placed. This message is issued for the following reasons: <ul style="list-style-type: none"> • An overflow condition occurred on the output volume. If the output volume being used is not the same as what the Master File record indicates, the input volume is flushed with this message. • The status of either the output volume or input volume has changed. Example: Restarting a Stacking run that successfully stacked marked volsers but abended before the Master File records were updated.
TMCUFAIL	An update to the TMC regarding this dataset failed. The STACK, VOLMOVE or VOLCOPY of this dataset was skipped.
UNCATMUL	An uncataloged dataset overflowed to a second output volume and the dataset was not stacked.

Tape Pull List Report in Volser Order

The Pull List report comes in two formats; volser order and usage order. The Tape Pull List in volser order shows the tape volumes required for processing. They are listed in volume order. There are separate lists for tape reels and cartridges.

If you interrupt execution after the analysis phase, the Pull List report can be used by tape handlers to pull all required volumes before resuming execution. The next report, Tape Pull List in Usage Order can be used to organize the volumes in mount sequence. This technique:

- Speeds up the manual mount process and reduces errors.
- Identifies any volumes which are offsite or misplaced before they are called for mount.
- Reduces the labor required to service the mount requests.
- Ensures there are sufficient scratch tapes available before beginning the execution.

If you have an automated tape library installed, the Tape Pull List report identifies the volumes that are not in the automated tape library. If no tapes are listed, you can execute this run definition, assured that the job can complete without operator intervention.

A sample Pull List report in volser order is shown below.

REPORT RUN 04/22/2000 at 10:30:02			PAGE 1
TAPESAVER			VERSION xxx
TAPE PULL LIST REPORT TAPE VOLSER ORDER			
VOLUME TYPE: REEL			
	#FILES	#FILES	
VOLSER	INPUT	OUTPUT	
-----	-----	-----	
01336	3	0	
01351	1	0	
01359	0	3	
01379	2	0	
	...		
7 MANUAL SCRATCH REELS REQUIRED			
REPORT RUN 04/22/2000 at 10:30:02			PAGE 2
TAPESAVER			VERSION xxx
TAPE PULL LIST REPORT TAPE VOLSER ORDER			
VOLUME TYPE: CART			
	#FILES	#FILES	
VOLSER	INPUT	OUTPUT	
-----	-----	-----	
01237	4	0	
01298	0	2	
01301	4	0	
01356	1	1	
	...		
48 MANUAL SCRATCH CARTS REQUIRED			

This Pull List report contains the following fields.

Field	Description
VOLUME TYPE REEL	Indicates 9-track reel portion of the report.
VOLSER	Volume serial number of each reel tape required.
# FILES INPUT	Number of files on this reel to be read as input.
# FILES OUTPUT	Number of files on this reel to be read as output.
MANUAL SCRATCH REELS REQUIRED	Total number of 9-track scratch tapes required.
VOLUME TYPE CART	Indicates 18-track cartridge portion of the report.
VOLSER	Volsers of the 18-track cartridges to be used.
# FILES INPUT	Number of files on this cartridge to be read as input.
# FILES OUTPUT	Number of files on this cartridge to be read as output.
MANUAL SCRATCH CARTS REQUIRED	Total number of 18-track scratch tapes required.



Tape Pull List Report in Usage Order

The Tape Pull List report shows the order in which TapeSaver calls for tapes during the execution of a job.

If you interrupt the execution of the TapeSaver job after the analysis phase, the Pull List report can be used by tape handlers to anticipate tape requirements. Typically, tape operators run the Pull List in volser order, go into the library and pull all the required volumes, and then use the report to place the required volumes in mount sequence order. This technique:

- Speeds up the manual mount process and reduces errors.
- Identifies any volumes which are off-site or misplaced before they are called for mount.
- Reduces the labor required to service the mount requests.
- Ensures that you have enough scratch tapes available before beginning execution.

If you have an automated tape library installed, the Pull List report identifies those volumes that are not in the automated tape library. If no tapes are listed, you can execute this run definition, assured that the job can complete without operator intervention.

A partial example of a Tape Pull List report in usage order is shown below.

REPORT RUN 04/22/2000 AT 15:41:39		PAGE 1
TAPESAVER		VERSION xxx
TAPE PULL LIST REPORT		
TAPE USAGE ORDER		
VOLSER	MEDIA TYPE	USED FOR
-----	-----	-----
002843	REEL	IN
101084	CART	OUT
002843	REEL	IN
101084	CART	OUT
002843	REEL	IN
101084	CART	OUT
002843	REEL	IN
101084	CART	OUT
002843	REEL	IN
101084	CART	OUT
002843	REEL	IN
*****	END OF PULL LIST REPORT	*****

The Pull List report contains the following fields.

Field	Description
VOLSER	Volser of the tape volume to be mounted.
MEDIA TYPE	Type of tape (reel or cartridge).
USED FOR	Indicates whether the tape is used for input or output.

Master File List Report

The Master File List report provides information about datasets and volumes contained in the Master File for the selected analysis code.

A sample Master File List report is shown on the next page. This report provides detailed information on dataset characteristics, volume characteristics, and miscellaneous fields for each dataset. Typically, this report is generated only at the request of UNICOM Systems Customer Service for diagnostic purposes.

```

REPORT RUN 04/04/2000 AT 12:42:57                                PAGE 1
TAPESAVER                                                         VERSION xxx
                                MASTER FILE LIST REPORT
                                TAPE DATASET CHARACTERISTICS:
                                MISCELLANEOUS FIELDS
-----
DATASET NAME      : SUN1.SAVETAPE.USEG01.G00  ADDRDSNB   : 0
LRECL             : 1                        ATLCD     :
FILE #            : 1                        COPYUTIL   :
DSN CREATED ON    : 09/18/99 AT 23:13:00     DEST       : 40
BY JOBNAME        : DPUSEG01                 DSSIF      : 0
BY STEPNAME       : FDRDUMP                   EXCLUDE    : 06
ON TAPE UNIT      : 0180                     EXPFLAG    : 80
DSN LAST USED ON  : 09/18/90                 FILGRPID   : 1
BY JOBNAME        : DPUSEG01                 FILGRPNM   : STAKBACK
ON TAPE UNIT      : 0180                     FIRSTVOL   :
EXPIRATION DATE   : 01/00/99*                FLAG1      : 40
BLOCK COUNT       : 9953                     FLAG2      : 40
BLOCK SIZE        : 32760                    FLAG3      : 00
SIZE OF DATASET   : 22.70%                   INEWVOL    :
# TAPE VOLUMES    : 1                        INVOLSPC   : .0
RECORD FORMAT     : 192                      IVOLSER    : 700000
TAPE CATLG EXPDT  : 0099000F                LABLTYPE   : 2
LOCATN ADDR:      :                          LOCNAME    :
TAPE VOLUME CHARACTERISTICS:
-----
VOLUME SERIAL #   : 700000                   MIGRATE DATE
USER ACCOUNT INFO : VGCLMWCCFRESLMWDUMP USG  MIGRATE TIME
BATCH ID          :                          NEWFILE#   : 0
VOLUME INTRODUCED: 01/21/89                 NEWVOL     :
# TIMES CLEANED   : 2                        NEXTVOL    :
# TIMES OPENED    : 30                       ORIGIN     : 50
LAST CLEANED      : 2                        OUTLEN     : 22.70%
USED SINCE CLEAND: 19                       PACKET     :
DENSITY           : E3                       PASSWORD   :
NUMBER DSNBS      : 0                       PREVVOL    :
SLOT              : 0                       RULE1      : 0
OUTCODE           :                          RULE2      : 0
OUTDATE           : *****                SRCDEV     :
# READ ERRORS     : 0000                    TGTDEV    :
# WRITE ERRORS    : 0000                    TRTCH     : 192
# FILES ON TAPE   : 1                       TSFLAG    : 00
VOLUME SEQUENCE #: 1                       VENDOR    :
LENGTH (IN FEET) :                          VOLGRPID   : 1
MANAGEMENT CLASS  :                          VOLGRPNM   : BACKUP
                                STG CLASS   :
                                ZARA ONLY FIELDS
ABENDFL          :                          LEXPFLG   :
CHECKFL          :                          LOUTCODE  :
CHECLXDT         :                          LPROG     :
CREATEFL         :                          LOUTCODE  :
CPROG            :                          OUTCFILE  :
LDDN             :                          OUTCV01   :
LEXPCNT          :                          ZSTAKFL   :
                                COPY INFORMATION
SOURCE COPY FLAG :                          TARGET FLG :
SOURCE VOLSER    :                          TARGET VOL :
                                RENAME INFORMATION
NEWNDEX          :                          RENAMEFL  :

```

Chapter 3 Tape Catalog Reports

To generate a tape catalog, type the number of the report on the TapeSaver Reporting screen and press Enter.

The following options generate a tape catalog report:

- Option 7 – Candidate
- Option 8 – DSN Locator
- Option 9 – Tape Catalog List

The screens that are displayed and the reports that are generated are described in the sections that follow.

Tape Catalog Reports	ddname	Purpose
Candidate Report	CANDIDAT	Lists datasets that are candidates for processing based on the rules in all rule packets of a run definition.
Dataset Locator Report	UCCRPT	Report showing the location of datasets in the tape catalog.
Tape Catalog List Report	TMCLIST	Shows detailed information about the contents of selected record(s) in the tape catalog.

Candidate Report

The Candidate report lists all datasets that are candidates for processing based upon the rules specified in the run definition. This report can be used to determine whether one or more rule packets select the input datasets you want processed by a TapeSaver job.

To generate a Candidate report, key in 7 on the TapeSaver Reporting screen. The Submit a Candidate Report screen is displayed. This screen lets you select the run definition that serves as the basis for the Candidate Report.

```
TapeSaver V230 ----- ROW 1 TO 8 OF 8
COMMAND ==>                SCROLL ==> PAGE
```

SUBMIT A CANDIDATE REPORT

SEL	RUN NAME	LAST MODIFIED	BY USERID	DESCRIPTION
	ZBYACCT	06/30/1995	TSR	STACK DATASETS BY TMACCT DATA
	ZFICHE	06/30/1995	TSR	STACK ON CARTRIDGE TODAY'S DATASETS GOING T
	ZGLSMIGR	06/30/1995	TSR	MIGRATE GLS DATASETS FROM REEL TO CARTRIDGE
	ZMIGREEL	06/30/1995	TSR	MIGRATE/STACK REELS TO CARTRIDGE BY APPLICA
	ZMVOLMGR	06/30/1995	TSR	MIGRATE LARGE, MULTI-VOL DSNS FROM 3480 -
	ZSMALLDS	06/30/1995	TSR	STACK ALL SINGLE DATASET TAPES WHICH ARE 20
	ZSTAKRUN	06/30/1995	TSR	STACK PRODUCTION DATASETS, GROUP BY HIGH-LE
	ZSTCKATL	06/30/1995	TSR	STACK MANUFACTURING DATASETS INTO THE ATL

Select the run definition you want for your report by entering S in the SEL field and pressing Enter. TapeSaver displays the Candidate Report screen similar to the example shown below. You can review and change the run-time options from this screen.

```
TapeSaver V230 ----- STACKING ANALYSIS
COMMAND ==>
```

CANDIDATE REPORT

REVIEW THE DATASET SELECTION THRESHOLDS AND JOB CARDS SPECIFIED BELOW:

MAXIMUM DATASETS TO SELECT PER RULE PACKET ==> 999999
 MAXIMUM TOTAL NUMBER OF DATASETS TO SELECT ==> 999999
 VIEW JCL (UNDER EDIT) INSTEAD OF SUBMIT JOB ==> (Y OR N)
 ANALYZE VOLUMES ==> THRU ==> ==> THRU ==>
 ==> THRU ==> ==> THRU ==>
 ==> THRU ==> ==> THRU ==>

JOB CARDS:
 ==> //MYJOB JOB (999), 'JOBCARDINFO',MSGCLASS=W,CLASS=A
 ==>
 ==>
 ==>
 ==>

PRESS ENTER TO SUBMIT THE CANDIDATE REPORT OR
 PRESS YOUR END KEY TO CANCEL

Field	Valid Choices	Description
MAXIMUM DATASETS TO STACK PER RULE PACKET	1-999999	Maximum number of datasets that each rule packet can select for input.
MAXIMUM TOTAL NUMBER OF DATASETS TO STACK	1-999999	Maximum number of datasets that can be selected by all rule packets in this run.
VIEW JCL (UNDER EDIT) INSTEAD OF SUBMIT JOB	Y, N	This field lets you indicate whether you want to view the JCL before it is submitted. Y TapeSaver goes to ISPF Edit mode and displays the generated JCL. You can review (and edit) the JCL before it is submitted. N TapeSaver does not display the JCL. It is submitted directly.
ANALYZE VOLUMES	AAAAAA-999999	Allows you to limit the scope of processing by specifying the volser ranges to be analyzed. A volser range is specified by a pair of entries noted by ==> THRU ==> . You can specify up to 6 volser ranges. If you entered volser ranges on the Operational Specifications screen for this run definition, your entries will be displayed here. You may change the displayed values.
JOB CARDS	N/A	Specify up to 5 lines of job card information.

When you complete the run-time options, press Enter. TapeSaver displays an informational screen similar to the TapeSaver Candidate Report screen below.

```

TapeSaver  V230 ----- STACKING ANALYSIS

                                TAPESAVER CANDIDATE REPORT

TAPESAVER WILL NOW ANALYZE YOUR RUN DEFINITION AND CONFIGURATION
SPECIFICATIONS TO ENSURE THAT ALL OF THE INFORMATION REQUIRED FOR A STACKING
CANDIDATES REPORT HAVE BEEN SPECIFIED.

IF ANY SPECIFICATIONS ARE MISSING, AN ERROR MESSAGE WILL DISPLAY AND YOU
CAN GO BACK AND FILL IN THE MISSING INFORMATION.

IF ALL REQUIRED SPECIFICATIONS ARE FOUND, A BATCH JOB WILL BE CREATED AND
SUBMITTED. THE JOB NUMBER WILL APPEAR IN THE LOWER LEFT CORNER OF YOUR
PANEL.

                                THIS PROCESS MAY TAKE A FEW MINUTES

```

If TapeSaver finds all the information required for the run definition you specified, it submits the job and displays a message at the bottom of the screen that the job was submitted.

The Candidate report does not show where data will be placed (no Group Definitions are used to generate the report); it simply lists the datasets selected for processing by the run definition chosen on the Submit a Candidate Report screen.

Chapter 3 Tape Catalog Reports

A sample Candidate report is shown below.

REPORT RUN 08/22/2000 AT 9:51:07						PAGE 1	
TAPESAVER						VERSION xxx	
CANDIDATE REPORT							
VOLSER	EXPDT	LEN(.%)	LAST USD	DATA SET NAME	# VOLS	# DSNS	
000120	12/01/1995	.10	12/01/1998	TESTMIS.GLS862.GL8602.GLMMAINT.AUG87	1	1	
000338	12/31/1998	49.30	02/28/1999	TESTMIS.GLS862.BKVGL.G0199V00	1	1	
000982	12/31/1998	19.60	03/02/1999	TESTMIS.GLS862.BKVGL.G0205V00	1	1	
001116	12/30/1995	3.90	07/30/1999	TESTMIS.GLS862.GL8602.GLDATA.NOV87	1	1	
001809	12/31/1998	2.30	08/04/1999	TESTMIS.GLS862.IE060187.DICTBKUP.G0002V00	1		
019006	09/30/1995	11.40	04/21/1999	TESTMIS.FPI.FA8808.BKUP.NBV	1	1	

* TOTAL NUMBER OF CANDIDATES FOUND: 6 *							

SUMMARY STATISTICS FOR TAPE CATALOG RECORDS SELECTED:							
PROJECTED COST SAVINGS: \$60							
(REELS FREED * REEL COST) + (CARTS FREED * CART COST)							
NUMBER OF REELS FREED: 6							
NUMBER OF CART FREED: 0							
ESTIMATED ELAPSED TIME: 9:56							

This report contains the information described in the following table.

Field	Description															
VOLSER	Volser of the current tape or DASD volume where the selected dataset resides.															
EXPDT	Expiration date of the dataset selected to be stacked or moved. If this field is marked with an asterisk, the dataset contains one of the following tape management system keyword expiration dates: <table border="1"> <thead> <tr> <th>Type of dataset</th> <th>Expiration date</th> <th>How date is shown on report</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>99365</td> <td>PERMANENT</td> </tr> <tr> <td>Catalog control</td> <td>99000</td> <td>CATALOG</td> </tr> <tr> <td>Frequency control</td> <td>98DDD</td> <td>LASTUSEDddd</td> </tr> <tr> <td>Cycle control</td> <td>99CCC</td> <td>CYCLE/ccc</td> </tr> </tbody> </table>	Type of dataset	Expiration date	How date is shown on report	Permanent	99365	PERMANENT	Catalog control	99000	CATALOG	Frequency control	98DDD	LASTUSEDddd	Cycle control	99CCC	CYCLE/ccc
Type of dataset	Expiration date	How date is shown on report														
Permanent	99365	PERMANENT														
Catalog control	99000	CATALOG														
Frequency control	98DDD	LASTUSEDddd														
Cycle control	99CCC	CYCLE/ccc														
LEN(.%)	Length (in percent of the tape volume length) of the tape dataset selected to be stacked or moved. For DASD datasets, the length will be the estimated length of the dataset on a standard, uncompressed 3480 cartridge.															
LAST USD	Date the selected dataset was last used.															
DATASET NAME	Name of the dataset selected to be stacked or moved.															
# VOLS	The number of volumes occupied by this dataset.															
# DSNS	The number of datasets on this tape; only the first dataset name appears on the Candidate report. This number is always 1 for DASD datasets.															



Assigning National Currency Symbols in Reports

TapeSaver reports all cost-savings information using dollars (\$) as the default currency. You can customize TapeSaver reports to use your local 1 or 2-character currency symbol instead. For example, you can create a Candidate report that shows anticipated cost savings with a local currency rather than dollars.

You can run the TSMONEY CLIST located in the TSR.ISPCLIB library to customize your TapeSaver reports with the currency symbol(s) you selected.

TSMONEY presents a screen where you can select the desired currency symbol. It then converts all TapeSaver report skeleton members to use the selected currency symbol.

```
TapeSaver VER230----- CURRENCY CONVERSION
COMMAND==>
                                CURRENCY SPECIFICATION

SPECIFY BELOW THE CHARACTER(S) TO USE WHEN SPECIFYING COST SAVINGS IN
TAPESAVER REPORTS.

    CURRENCY SYMBOL(S) ==>

THIS CONVERSION MUST BE PERFORMED ON THE REPORT SKELETON LIBRARY AS UNLOADED
FROM THE TAPESAVER DISTRIBUTION TAPE.

    PRESS ENTER TO CONVERT THE TAPESAVER REPORT SKELETONS OR
    PRESS THE END KEY TO ABORT.
```

To run the TSMONEY CLIST:

1. Enter the following from any ISPF command line.
TSO %TSMONEY DISKPFX(*file-prefix*)
2. Replace *file-prefix* with the prefix you defined for TapeSaver datasets when they were installed.
3. When the screen appears, specify the desired currency symbols and press ENTER.
4. Be sure TSMONEY completes normally.

Dataset Locator Report

The Dataset Locator report shows the location of datasets in the tape catalog (both the first dataset on a tape and secondary datasets) based on dataset name.

The Dataset Locator report is useful for determining where specific tape datasets or groups of related datasets are located in the tape library. If you choose to stack uncataloged datasets, you can use this report to determine the volser of the tape volume to which an uncataloged dataset was stacked.

Select option 8 from the TapeSaver Reporting menu to create the Dataset Locator report. The screen shown below is displayed.

```
TapeSaver V230 ----- REPORTING
COMMAND ==>

                TAPE DATASET LOCATOR REPORT

SPECIFY ONE OR MORE TAPE DATASET NAMES (OR PATTERNS). DO NOT PUT THE
DATASET NAME(S) IN QUOTES.
==>
==>
==>
==>

JOB CARDS(S): (REQUIRED)
==> //MYJOB JOB (999), 'JOB CARD INFO', MSGCLASS=W, CLASS=A
==>
==>
==>

                PRESS ENTER TO SUBMIT THE DATASET LOCATOR REPORT OR
                PRESS YOUR END KEY TO CANCEL
```

You can specify up to five dataset names (do not put them in quotes), and any of the dataset names can end with an asterisk (*) to act as a partial dataset name. Partial dataset names are matched up to (but not including) the asterisk. TapeSaver builds a job to search the tape catalog for matching datasets.

This report contains the following information.

Field	Description
VOLSER	Volume serial number of the volume on which the dataset resides.
FILE SEQ	File number of the dataset on the tape.
DATASET NAME	The dataset that you are trying to locate.
CREATE JOBNAME	Name of the job which created the dataset.
CREATE STEPNAME	Step name of the job which created the dataset.
CREATION DATE	Date the dataset was created.
EXPIRATION DATE Or, for TLMS: DSN KEEP DATE	Date the dataset expires.

A sample Dataset Locator report generated in a CA-1 site is shown on [page 26](#). A report for a Zara site is exactly the same. In a TLMS site, the last column of the report is different - it will say DSN Keep Date instead of Expiration Date

08/08/2000		DATASET LOCATOR REPORT				PAGE	1
VOLSER	FILE SEQ	DATASET NAME	CREATE JOBNAME	CREATE STEP	CREATION DATE	EXPIRATION DATE	
700009	2	G817.FEB93.LSVSALTX	G817996Y	STEP02	04FEB1994	99038	
700100	7	G817.JUL91.MTDDISTR	G817990Y	STEP07	06FEB1992	99040	
701355	2	SORC.MFSLIB.DISABLED.INACTIVE.G0043V00	LSM402	STEP030	25MAR1995	99087	
702672	2	SORC.MFSLIB.DISABLED.INACTIVE.G0044V00	LSM402	STEP030	01APR1995	99094	
702792	2	SORC.MFSLIB.DISABLED.INACTIVE.G0045V00	LSM402	STEP030	08APR1995	99101	
702804	2	SORC.MFSLIB.DISABLED.INACTIVE.G0046V00	LSM402	STEP030	15APR1995	99108	
702387	2	SORC.MFSLIB.DISABLED.INACTIVE.G0047V00	LSM402	STEP030	22APR1995	99115	
702841	2	SORC.MFSLIB.WEEKLY.BACKUP.G0752V00	LSW401	STEP020	14JUN1995	99168	
		...					



Tape Catalog List Report

The Tape Catalog List report provides detail information about the volumes in your tape catalog.

Enter option 9 on the TapeSaver Reporting screen to generate a Tape Catalog List report. The Submit a Tape Catalog List Report screen is displayed. This screen is similar to the Submit a Candidate Report screen shown on [page 20](#).

To select the run definition, type S in the SEL field and press Enter. TapeSaver then displays a screen with run-time options. You can review and change any of the run-time options displayed.

```
TapeSaver V230 ----- REPORTING
COMMAND ==>

                TAPE CATALOG LIST REPORT

REVIEW THE REPORTING THRESHOLDS AND JOB CARDS SPECIFIED BELOW:

MAXIMUM NUMBER OF TAPE VOLUMES TO LIST      ==> 20
VIEW JCL (UNDER EDIT) INSTEAD OF SUBMIT JOB  ==> N

ANALYZE VOLUMES ==>          THRU ==>          ==>          THRU ==>
                ==>          THRU ==>          ==>          THRU ==>
                ==>          THRU ==>          ==>          THRU ==>

JOB CARDS:
==>
==>
==>
==>
==>

                PRESS ENTER TO SUBMIT THE TAPE CATALOG LIST REPORT OR
                PRESS YOUR END KEY TO CANCEL
```



Field	Valid Choices	Description
MAXIMUM NUMBER OF TAPE VOLUMES TO LIST	1-999999	Maximum number of tape volumes to be listed in this report.
VIEW JCL (UNDER EDIT) INSTEAD OF SUBMIT JOB	Y, N	This field lets you indicate whether you want to view the JCL before it is submitted. Y TapeSaver goes to ISPF Edit mode and displays the generated JCL. You can review (and edit) the JCL before it is submitted. N TapeSaver does not display the JCL. It is submitted directly.
ANALYZE VOLUMES	AAAAAA-999999	Allows you to limit the scope of processing by specifying the volser ranges to be analyzed. A volser range is specified by a pair of entries noted by ==> THRU ==> . You can specify up to 6 volser ranges. If you entered volser ranges on the Operational Specifications screen for this run definition, your entries will be displayed here. You may change the displayed values.
JOB CARDS	N/A	Specify up to 5 lines of job card information.

When you complete the options on this screen, press Enter. TapeSaver displays an informational screen similar to the TapeSaver Candidate Screen shown on [page 20](#).

If TapeSaver finds all the information required for the run definition you specified, it submits the job and displays a message at the bottom of the screen that the job was submitted.

A sample Tape Catalog List report is shown below.

REPORT RUN 04/04/2000 AT 10:46:58 TAPESAVER	PAGE 1 VERSION xxx
TAPE CATALOG LIST REPORT	
TAPE VOLUME CHARACTERISTICS:	

VOLUME SERIAL #: 000000 DATASET NAME: WMABPH.LABLTAPE.LETTERAC VOLUME SEQUENCE #: 1 NUMBER DSNBS: 0 OUTCODE: SIZE: 44.6	DENSITY: D3 EXPDT: 12/08/99 SLOT: 0 OUTDATE: *****
VOLUME SERIAL #: 000001 DATASET NAME: SUN1.MONTHLY.SAVETAPE.X22EDL.G0004V000 SEQUENCE #: 4 NUMBER DSNBS: 0 OUTCODE: SIZE: 89.6	DENSITY: D3 EXPDT: CATALOG SLOT: 0 OUTDATE: *****
VOLUME SERIAL #: 000002 DATASET NAME: WMAWJS.YTD0187.BWDGEL VOLUME SEQUENCE #: 15 NUMBER DSNBS: 0 OUTCODE: SIZE: 101.3	DENSITY: D3 EXPDT: 02/18/99 SLOT: 0 OUTDATE: *****



Chapter 4 Dataset Migration History Report

The Dataset Migration History report displays a chronological history of all TapeSaver migration activity for a specific dataset. You can use this report to determine the location(s) of a specific dataset.

Select Option 10 (History) from the TapeSaver Reporting menu to generate the Dataset Migration History report. TapeSaver displays the Dataset Migration History Report screen shown below. Specify the dataset you want to track from this screen.

```
TapeSaver V230 ----- REPORTING
COMMAND ==>

                DATASET MIGRATION HISTORY REPORT

SPECIFY THE NAME OF THE TAPE DATASET FOR DATASET MIGRATION REPORTING.
DO NOT PUT THE DATASET NAME IN QUOTES.

==>

OPTIONALLY, YOU CAN INCLUDE RENAMED DATASETS IN THE SEARCH FOR DATASETS
OF THE ABOVE NAME. THIS WILL LENGTHEN THE TIME REQUIRED TO COMPLETE THE
SEARCH.

SEARCH RENAMED DATASETS ALSO ==> N (Y OR N)

PRESS ENTER TO CREATE THE DATASET MIGRATION REPORT OR
PRESS YOUR END KEY TO CANCEL
```

A sample Dataset Migration History report is shown below. The migration history is shown in reverse chronological order (most recent migration at the top of the report). The report is contained in a dataset named: *userid*.TAPESAVR.REPORT.

```
REPORT RUN 07/28/2000 AT 10:00:00                                PAGE 1
TAPESAVER                                                         VERSION xxx

                DATASET MIGRATION HISTORY REPORT
                WMMSTSR1.TFILE15.TSEXIRP

FROM FILE TO FILE ----MIGRATED-----CREATED----- EXPIRATION
VOLSER #  VOLSER #   DATE   TIME   DATE   TIME   JOBNAME  STEPNAME  DATE
-----
123314  12 113622  133 06/18/1995  2:37 02/15/1995  10:57 ABCDEFG  PRODVOL2 05/18/1992
ACCT=WMMSTSR1,OPNS                                           NEW HINDEX=ABCDEFGH
101644   4 123314   12 06/12/1995  14:35 02/15/1995  10:57 ABCDEFG  PRODVOL2 05/18/1992
ACCT=WMMSTSR1,OPNS                                           NEW HINDEX=ABCDEFGH
102811   1 101644   4 06/11/1995  18:37 02/15/1995  10:57 ABCDEFG  PRODVOL2 05/18/1992
ACCT=WMMSTSR1,OPNS                                           NEW HINDEX=ABCDEFGH
```



This report contains the following information.

Field	Description
FROM VOLSER	The volser of the tape the dataset was migrated from.
FILE #	The file sequence number of the dataset when it was migrated.
TO VOLSER	The volser of the tape the dataset was migrated to.
FILE #	The file sequence number of the dataset on the tape it was migrated to.
MIGRATED DATE	The date the dataset was migrated by TapeSaver.
MIGRATED TIME	The time the dataset was migrated by TapeSaver.
CREATED DATE	The date the dataset was originally created.
CREATED TIME	The time the dataset was originally created.
CREATED JOBNAME	The name of the job that created the dataset.
EXPIRATN DATE	The expiration date of the dataset.
ACCT	The accounting information (TMACCT field) for the dataset in the tape catalog. This is the line directly below the dataset detail line.
NEW HLINDEX	The new high-level index for the dataset if the dataset was renamed during the move or copy. If the high-level index was not changed, this field does not appear on the report.



Chapter 5 Operational Reports

TapeSaver generates several reports during job processing that are referred to as operational reports. These operational reports are:

- **Reject List**
This report is generated if you specify in your run definition that you want to list datasets rejected for TapeSaver processing.
- **Execution Summary**
This report is always generated. The Execution Summary report lists control cards created by TapeSaver to process the rules in the run definition.
- **Conflict Report**
This report is generated via the Conflict option 7.3. The report lists datasets that would result in conflicts DISP=MOD datasets and datasets that cannot be placed on the same volume.
- **Cycle Control Status Report**
This report shows planned and/or implemented CCD expiration activity performed by TSCYCLE. The report is generated when a TSCYCLE run definition is executed.
- **Cycle Control Exception Report**
This report identifies various exception conditions encountered during execution of TSCYCLE. The report is generated when a TSCYCLE run definition is executed.
- **Volume Copy Report**
This report shows which volumes are to be copied and which volumes have already been copied. The report is generated for each run definition that specifies volumes are to be copied.
- **Unexpire Report**
This report identifies volumes that need CA-1 Scratch Protection to prevent the premature expiration of tape volumes.

Reject List Report

When you create a run definition, one of the questions on the Operational Specifications screen, asks:

List rejected tape volumes and datasets?

If you specified Y to this question, TapeSaver creates the Reject List report. TapeSaver produces a listing of the input datasets rejected during the forecast process and the reason why they were rejected.

You can control the length of this report by specifying one or more volses eligible for reporting. These ranges are specified in the Execute Options screen with the question:

Analyze volumes thru

A sample Reject List follows.

REASON	VOLSER	DATASET NAME
NOTACTIV	000000	WMABPH.LABLTAPE.LETTERAC
MULTIVL1	000001	SUN1.MONTHLY.SAVETAPE.X223DL.G0004V00
MULTIVL1	000002	WMAWJS.YTD0187.BWGDEL
BATCHID	000003	WHR.SAS81.GROUP8
MULTIVL1	000004	WCMYS.PMS1083.CMAS
NOGROUP	000005	LSF.LSF220.SUPPORT
MULTIVL1	000006	WCH.UBPS87.MASTERQ4
SCRATCH	000007	WMAHAL.SAR155.VISAF84
NOGROUP	000008	WCMKAY.MONTHLY.EXTRACT.G0036V00
MULTIVL1	000009	WMAWJS.YTD0186.BWGDEL

Reject List Reason Codes

The reason why a dataset was rejected appears in the Reason field of the Reject List report. The following table lists all reason codes that appear in the Reject List report.

Reject Reason Code	Description
ALLEXPDR	All datasets on the tape have expired.
BADCHAIN	An inactive DSNB was not found in the CA-1 TMC
BADDSN	The dataset name is invalid.
BLKSIZE0	Block size of the dataset is zero. Without a valid block size, TapeSaver cannot accurately predict the size of a dataset and therefore does not stack or migrate it.
BLKCOUN0	Block count of the dataset is zero. Without a valid block count, TapeSaver cannot accurately predict the size of a dataset and therefore does not stack or migrate it.
CYCLE	Dataset has a cycle control KEYWORD expiration date. By default, TapeSaver does not stack cycle control datasets. If you want to stack cycle control datasets, refer to the ZCYCCNTL run definition in Chapter 2.
CENT21	Dataset has a 21st century expiration date and your release of CA-1 is not Version 5.0 or greater. TapeSaver requires CA-1 Version 5.0 or later to support the use of datasets with 21st century expiration dates.
DENO	The density of the dataset is zero. This is not a valid density.

Reject Reason Code	Description
DSNDEL	The dataset has been deleted prior to TapeSaver processing.
DSORG	The dataset organization is not supported by DiskSaver (VSAM, ISAM, PDS, etc.).
EXPSOON	Dataset expires soon. The run definition specification of the minimum number of days until expiration for stackable datasets was not exceeded. You can control whether or not this dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Don't stack datasets that are due to expire in ..."
F1SCRATCH	A possible output volume can not be scratch at forecast time.
F1VDEL	A possible output volume is not active in the tape catalog.
F3RPLUS	A possible output volume is defective.
FROMJCL	This dataset's retention type was set by JCL instead of from the retention master file as required by TapeSaver. Note: This reject reason corresponds to the TLMS field RTN-SCHED(1) BY JCL which indicates that the dataset has not yet been processed by the Tape Retention Schedule.
LOCACONF	Location to which this dataset was assigned is in conflict with one or more grouping specifications.
LOWVOLSP	Dataset is larger than the threshold set in the run definition for the maximum stackable dataset size. You can control whether or not this dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Don't stack datasets which use more of a tape than..."
LTYPESL	The first dataset on a possible output volume has a non-standard label.
MCAT	Dataset is not cataloged. You can control whether or not this dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Stack uncataloged datasets?"
MIXDMULT	Zara only* - Dataset resides in a multi-volume chain and one or more volumes contains more than one file.
MULTFILE	Zara only* - Dataset resides on multi-dataset tape. You can control whether or not this dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Stack datasets from multi-file tapes?"
MULTIVL1	Dataset is on a tape volume in a multi-volume chain and the volume is not the first in the chain.
MULTIVL2	Dataset resides on a tape volume that is first in chain but the volume is involved in a multi-volume chain and objective is STACK.
NOTACTIV	Tape volume on which this dataset resides is not active.
NOGROUP	This dataset was not selected by a rule packet for one of the following reasons: <ul style="list-style-type: none"> • It was never selected by a rule. • It was selected but was later specifically rejected by a rule. • The group limit was reached.
NOTSL	Tape volume on which this dataset resides is not a standard label tape.

Reject Reason Code	Description
ONLOAN	The volume is on loan
OPENED	The volume was opened by a job at the time of TapeSaver processing.
OUTCODE	This dataset resides on an outcoded tape volume. You can control whether or not a dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Stack datasets which are outcoded?"
PASSWORD	The dataset is password protected.
PENDING	The volume is pending release
RESTACK	The tape was stacked by TapeSaver and the restack option has been set to NO. Refer to the question on the Input Dataset Selection Rules screen, described in Chapter 4, that says: "Restack tapes previously stacked by Tapesaver?"
RETNTYP	The tape or dataset was rejected for one of the following reasons: A retention schedule was not loaded in the volume record. The dataset has a type of expiration date that TapeSaver does not support, such as STATS99 or AGE.
RULECONF	Dataset met the criteria of two or more conflicting rules. You can control whether or not processing continues when a conflict is encountered via a run definition specification. Refer to the question on the Operational Specifications screen, described in Chapter 4, that says: "Continue stacking if conflicting rules found?"
SCRATCH	Dataset was scratched.
SLOTNOT0	Tape volume on which this dataset resides has a non-zero slot number. You can control whether or not this dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Stack datasets which are outcoded?"
SRVSCR	The tape volume on which the dataset resides is either in scratch status or out of service.
TMACCT	Tape volume on which this dataset resides has accounting information. You can control whether or not this dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Stack datasets with user data (TMACCT field)?"
TMSYSREJ	The tape management system indicated that the tape volume was not a candidate for stacking. The tape may have been rejected for any number of reasons, including: Data on the TMS record is invalid. The TMS record is in INIT status. Tapes are externally data managed tapes (EDM). Zara allows entries which do not correspond to physical tapes. The expiration date of a TLMS dataset has not yet been set by the Retention Master File (RMF).
TSBLKSI	The block size of the output volume is zero. This is not a valid block size.
TSBLKCNT	The first dataset of an output volume has a block count of zero.
TSEXPIRE	The dataset has reached its expiration date prior to TapeSaver processing.
TSNXTVOL	A possible output volume can not be the first volume in a multi-volume chain.

Reject Reason Code	Description
TSOUTAR	A possible output volume is outcoded. You can control whether or not a dataset is rejected via a run definition specification. Refer to the question on the Input Tape Selection Rules screen, described in Chapter 4, that says: "Stack datasets which are outcoded?"
UNCATMUL	An uncataloged dataset overflowed to a second output volume.
UNMOVEABLE	The dataset is unmovable.
UNSUPXPD	The dataset contains an invalid expiration date. The invalid date was probably created during a conversion of the tape management system.
VOLCHAIN	A secondary volume in a multi-volume chain is a multi-file volume.

Execution Summary Report

This report lists control cards and error messages issued by TapeSaver during processing. Refer to the *TapeSaver Quick Reference Guide* for an explanation of these control cards.

An Execution Summary report is always generated. An example of the report is shown below.

```

REPORT RUN 04/22/2000 AT 9:33:27
TAPESAVER
EXECUTION SUMMARY REPORT
VERSION 230

-----
CONTROL CARDS AND RELATED ERRORS
-----

*****
*
* OPERATIONAL ASSUMPTIONS
* THE FOLLOWING STATEMENTS PROVIDE RULES WHICH AFFECT THE IMPACT THE STACKING RUN * CAN HAVE ON
* OPERATIONS PERSONNEL AND THEIR WORKLOAD.
*****

DEFAULTS MAXDRIVES(2)
DEFAULTS FULLTAPE(950)
DEFAULTS MOD_PERCENT_FREE(50)
DEFAULTS MAN_MOUNT_DELAY(45)
DEFAULTS AUT_MOUNT_DELAY(0)
DEFAULTS SCRATCH_DELAY(25)
DEFAULTS CART_LENGTH(541)
DEFAULTS REEL_LENGTH(2400)
DEFAULTS MIN_DSNBS(150)
DEFAULTS COMPACTION(500)

*****
*
* COST SAVINGS ASSUMPTIONS
* THE FOLLOWING STATEMENTS PROVIDE THE COST SAVINGS ASSUMPTIONS FOR THE STACKING * PAYBACK CALCU-
* LATION.
*****

DEFAULTS REEL_COST(15)
DEFAULTS CART_COST(5)
DEFAULTS REEL_OFFSITE_COST(1)
DEFAULTS CART_OFFSITE_COST(1)
DEFAULTS REEL_ONSITE_COST(1)
DEFAULTS CART_ONSITE_COST(1)

*****
*
* LOCATION DEFINITIONS
* THE FOLLOWING STATEMENTS DEFINE THE TAPESAVER LOCATIONS WHICH WILL BE REFERRED TO * IN TAPESAVER
* RULES.
*****
*
* ENVIRONMENT DEFINITIONS
* THE FOLLOWING STATEMENTS DEFINE THE DATA CENTER ENVIRONMENT AS IT PERTAINS TO
* TAPESAVER'S OPERATION.
*****

ENVIRON SKELETONS(TSR.V15.RPTSKEL)
ENVIRON TAPE_MGMT_SYS(TMS)
ENVIRON RELEASE(5)

```

```

*****
*
*                RUN DEFINITION SPECIFICATIONS
* THE FOLLOWING STATEMENTS COME FROM THE RUN DEFINITION.
*****

DEFAULTS CATLG_UNCATS(YES)
DEFAULTS RULE_CONFLICT(CONTINUE)
DEFAULTS IGNORE_USER_DATA(YES)
DEFAULTS IGNORE_OUTCODE(YES)
DEFAULTS MOVE_EXPIRED_FILES(NO)
DEFAULTS STACK_MULTI_FILES(NO)
DEFAULTS LOW_VOL_SPACE(990)
DEFAULTS MAXDSNS_PER_VOL(9999)
DEFAULTS LIST_REJECTS(YES)
DEFAULTS RETAIN_FREE_VOLS(1)
DEFAULTS MOD_FILES(STACK)
DEFAULTS UNCATS(STACK)
DEFAULTS OBJECTIVE(STACK)
DEFAULTS MAY_USE_SCRATCH_VOL(YES)
DEFAULTS EXPDT_DAY_RANGE(99)
DEFAULTS NOSTACK_EXPDT_RANGE(1)

*****
* OTHER RUN SPECIFICATIONS
*****

DEFAULTS STACK_LIMIT(32767)
DEFAULTS GROUP_STACK_LIMIT(32767)
DEFAULTS SCRATCH_LIMIT(10)
*****

*                GROUP DEFINITIONS
* THE FOLLOWING STATEMENTS DEFINE THE TAPESAVER GROUPS WHICH WILL BE REFERRED TO IN
* TAPESAVER RULES.
*****

GROUP ZSCRATCH VOL CART
IF VOLSER '000000' THEN REJECT
*****

*                RULE PACKET DEFINITIONS
* THE FOLLOWING STATEMENTS DEFINE THE RULE PACKETS WHICH ARE TO BE ANALYZED IN THIS
* STACKING ANALYSIS RUN.
*****

PACKET ZSCRATCH 'SELECT ALL DATASETS'
GROUP ZSCRATCH FILE CART
IF VOLSER '000000' THEN STACK WITH SCRATCH

DEFAULTS VOLUME_FREE_SPACE(10)
RUNTYPE FORECAST REPORT
REPORTS FORECAST EXCLUDE

-----
-                EXECUTION-TIME MESSAGE                -
-----

TAPE0074 TSM MAIN PROGRAM NOT APF AUTHORIZED

```



Conflict Report

TapeSaver generates a conflict report as part of the SMF Data Extraction process. The Conflict report shows:

- Datasets allocated as DISP=MOD
- Datasets that cannot be placed on the same volume because they are used by the same job or job step at the same time

If you want this report generated, you request this on the Extract Tape Activity From SMF screen, described in "[Extracting Dataset Activity from SMF Data](#)" on page 73 of the *TapeSaver Installation And Configuration Guide*. A portion of a Conflict report is shown below.

REPORT RUN 07/22/2000 AT 9:33:27		PAGE 1		
TAPESAVER		VERSION 230		
CONFLICT REPORT				
RCD#	DSN INVOLVED IN CONFLICT	TYPE	CONFL #	IN CONFLICT WITH DSN NUMBERS:
0	IDMS.PROD.PNBS.ARCHJRNL.G0001V00	FILE	3	8 9 10
1	IDMS.PROD.PNBS.ARCHJRNL.G0002V00	FILE	3	8 9 10
2	IDMS.PROD.PNBS.ARCHJRNL.G0003V00	FILE	3	8 9 10
3	IDMS.PROD.PNBS.ARCHJRNL.G0004V00	FILE	3	8 9 10
4	IDMS.PROD.PNBS.ARCHJRNL.G0005V00	FILE	3	8 9 10
5	IDMS.PROD.PNBS.ARCHJRNL.G0006V00	FILE	3	8 9 10
6	IDMS.PROD.PNBS.ARCHJRNL.G0007V00	FILE	3	8 9 10
7	IDMS.PROD.PNBS.ARCHLOG.G0002V00	FILE	3	11 12 13
8	IDMS.PROD.PNBS.WKLYJRNL.G0050V00	FILE	7	6 5 4 3 2 1 0
9	IDMS.PROD.PNBS.WKLYJRNL.G0052V00	FILE	7	6 5 4 3 2 1 0
10	IDMS.PROD.PNBS.WKLYJRNL.G0053V00	FILE	7	6 5 4 3 2 1 0
11	IDMS.PROD.PNBS.WKLYLOG.G0050V00	FILE	1	7
12	IDMS.PROD.PNBS.WKLYLOG.G0052V00	FILE	1	7
13	IDMS.PROD.PNBS.WKLYLOG.G0053V00	FILE	1	7
14	IDMS.PROD.PRD1.ARCHLOG.G0001V00	FILE	5	70 77 78 79 80
15	IDMS.PROD.PRD1.ARCHLOG.G0002V00	FILE	5	71 77 78 79 80
16	IDMS.PROD.PRD1.ARCHLOG.G0003V00	FILE	5	72 77 78 79 80
17	IDMS.PROD.PRD1.ARCHLOG.G0004V00	FILE	5	73 77 78 79 80
18	IDMS.PROD.PRD1.ARCHLOG.G0005V00	FILE	5	74 77 78 79 80
19	IDMS.PROD.PRD1.ARCHLOG.G0006V00	FILE	5	75 77 78 79 80
20	IDMS.PROD.PRD1.ARCHLOG.G0007V00	FILE	2	76 77
21	IDMS.PROD.PRD1.DLYJRNL.G0287V00	FILE	17	64 63 62 61 60 59
	58 57 56 55 54 53 52 51 50 49 48			
22	IDMS.PROD.PRD1.DLYJRNL.G0288V00	FILE	1	48
23	IDMS.PROD.PRD1.DLYJRNL.G0289V00	FILE	7	54 53 52 51 50 49 48
24	IDMS.PROD.PRD1.DLYJRNL.G0290V00	FILE	7	54 53 52 51 50 49 48
25	IDMS.PROD.PRD1.DLYJRNL.G0291V00	FILE	7	54 53 52 51 50 49 48
26	IDMS.PROD.PRD1.DLYJRNL.G0292V00	FILE	4	51 50 49 48
27	IDMS.PROD.PRD1.DLYJRNL.G0293V00	FILE	7	56 55 54 53 52 51 50
28	IDMS.PROD.PRD1.DLYJRNL.G0294V00	FILE	20	68 67 66 65 64 63 62
	60 59 58 57 56 55 54 53 52 51 50 49 48			
TOTAL NUMBER OF CONFLICT RECORDS: 419				

The Conflict report shows the datasets TapeSaver detected as having conflicts. The report contains the following information.

Field	Description
RCD #	Record identifier assigned by TapeSaver.
DSN INVOLVED IN CONFLICT	Name of the dataset involved in the conflict.
TYPE	Type of conflict detected. <ul style="list-style-type: none"> FILE conflicts indicate that more than one dataset is used by a job at the same time. DISP conflicts indicate tape datasets allocated DISP=MOD.
# CONFL	Number of datasets with which this dataset is in conflict.
IN CONFLICT WITH DSN NUMBERS	List of record identifiers for the datasets with which this dataset is in conflict.
TOTAL NUMBER OF CONFLICT RECORDS	Total number of conflicts of both types detected in this SMF analysis run.

If you see conflicts in the report which you do not understand, you can produce a detailed listing of every conflict detected by the SMF analysis program. To do this, access the Extract Tape Activity from SMF screen (option 7.3). Specify Y in the TRACE CONFLICTS field and re-run the SMF Extract job. Refer to ["Chapter 6 Specifying Dataset Conflict Rules" on page 69](#) of the *TapeSaver Installation And Configuration Guide*.

The output generated by the TRACE CONFLICTS option is shown in the sample below. One entry is written for every dataset pair opened at the same time by one job:

	CONFLICT FOR JOB #	FIRST DATASET	SECOND DATASET
	-----	-----	-----
TSSMF	CONFLICT: A315J210	A315.MONTHLY.RECAP	A315.WEEKLY.TRANSACT
TSSMF	CONFLICT: B666J010	B666.CUSTOMER.SORT	B666.VENDOR.SORT

Each line in this report shows the jobname that was running and the name of the two datasets involved in the conflict. This output is intended for use only in resolving questions that arise in reviewing the Conflict report.

Cycle Control Status Report

The Cycle Control Status report shows the expiration activity that was planned and/or implemented by TSCYCLE.

A sample Cycle Control Status report is shown below.

REPORT RUN 04/28/2000 AT 10:00:00							PAGE 1
TAPESAVER							VERSION 230
CYCLE CONTROL STATUS REPORT							
DATASET CREATED							
VOLSER	DATASET NAME	EXPDT	FILE#	JOBNAME	DATE	TIME	#VOLS EXPIRED
100100	CYCLE.CONTROL.DATASET.NAME	CYCLE/032	1	CRTJOB	02/15/1999	12:00:00	1 YES
103605	ANOTHER.CYCLE.CONTROL.DATASET	CYCLE/010	1	CJOBMN	03/15/1999	13:41:00	1 YES
103605	CYCLE.CONTROL.DATASET2	CYCLE/007	2	CJOBMN	03/15/1999	13:45:00	1 YES
102511	CYCLE.CONTROL.DATASET3	CYCLE/012	1	CJOB	03/23/1999	8:12:00	1 SOFT
4 DATASET(S) EXPIRED							
2 TAPE VOLUME(S) EXPIRED							

This report contains the following information.

Field	Description
VOLSER	The volume serial number of the volume on which the dataset resides.
DATASET NAME	The name of the dataset.
EXPDT	The expiration date of the cycle control dataset. Cycle control datasets are shown on the report as CYCLE/ccc.
FILE#	The file sequence number on the tape.
JOBNAME	The name of the job which created the dataset.
DATE	The date the dataset was created.
TIME	The time the dataset was created.
#VOLS	The number of volumes on which the dataset resides.
EXPIRED	<p>Indicates if the dataset has expired. One of the following literals is displayed:</p> <p>YES Dataset is expired.</p> <p>NO Dataset is not expired.</p> <p>SOFT Appears for primary dataset only (FILE#=1). Indicates the primary dataset has expired, but there are still other secondary datasets on the volumes that have not expired. The creating step name field in the tape catalog is changed to "*EXPIRED" so -TapeSaver knows the dataset has logically expired. The expiration date on the volume record can not be expired until all of the secondary files on the tape have expired.</p> <p>FAIL Indicates that the attempt to expire the dataset failed.</p>

Cycle Control Exception Report

The Cycle Control Exception report lists the exception conditions encountered during the execution of TSCYCLE.

A sample Cycle Control Exception report is shown below.

CYCLE CONTROL EXCEPTION REPORT							PAGE 1
TAPESAVER							VERSION 230
VOLSER	DATASET NAME	EXPDT	FILE#	CYCLES	HIGH CYCLES	LOW CYCLES	EXCEPTION DESCRIPTION
100100	CYCLE.CONTROL.DATASET.NAME		CYCLE/023	3	CRTJOBN	02/15/1999	CYCLE ABUSE
103655	NON.CYCLE.CONTROL.DATASET		01/02/1999	2	N/A	N/A	MIXED EXPDT TAPE
2 EXCEPTIONS DETECTED							

This report contains the following information.

Field	Description
VOLSER	The volume serial number of the volume on which the dataset resides.
DATASET NAME	The name of the dataset.
EXPDT	The expiration date of the dataset. Cycle control datasets are shown on the report as CYCLE/ccc.
FILE#	The file sequence number for the dataset.
HIGH CYCLES	The highest overall number of cycles specified for the dataset.
LOW CYCLES	The lowest overall number of cycles specified for the dataset.
EXCEPTION DESCRIPTION	One of the following literals will appear to describe the type of exception: CYCLE ABUSE exceptions occur when multiple copies of a given cycle control dataset name exist with different cycle control numbers. For example, one copy has an expiration date of 99003 (3 cycles) and another has an expiration date of 99030 (30 cycles). MIXED EXPDT (mixed expiration date) exception exists when a cycle control dataset is found on a tape along with at least one non-cycle control dataset. It does not matter whether the volume is a cycle control volume or not.

Volume Copy Report

The Volume Copy report shows which volumes are scheduled to be copied and which volumes have already been copied. This report is automatically generated when:

- A VOLCOPY run definition is executed.
- A STACK or VOLMOVE run definition is executed where at least one group or rule packet had the Copy Volume option set to Yes.

A sample Volume Copy report is shown below.

REPORT RUN 04/10/2000 AT 10:00:00						PAGE 1
TAPESAVER						
VERSION xxx						
VOLUME COPY REPORT						
TAPE VOLSER ORDER						
VOLSER	NEW VOLSER	SOURCE OR TARGET	# FILES	COPIED YET?	# VOLUMES	
110579		S	3	N	1	
123682		T	5	N	1	
1	RULE PACKET VOLUMES SELECTED FOR COPY					
1	GROUP VOLUMES SELECTED FOR COPY					
2	TOTAL VOLUMES SELECTED FOR COPY					
2	VOLUMES YET TO BE COPIED					
0	VOLUMES ALREADY COPIED					

This report contains the following information.

Field	Description
VOLSER	The volume serial of the source volume where the dataset resides.
NEW VOLSER	The volume serial of the target volume where the dataset is being copied.
SOURCE OR TARGET	Indicates if the dataset is a source dataset (rule packet) or a target dataset (group).
# FILES	The number of files on this volume.
COPIED YET?	Indicates whether the volume was copied. One of the following codes may appear: Y – The volume was copied. N – The volume has not yet been copied. * – An error occurred that prevented the volume from being copied. A dynamic allocation error is displayed in the Execution Summary report. For an explanation of the codes displayed in this message, refer to the IBM manual <i>Authorized Assembler Programming Guide</i> .
# VOLUMES	The number of volumes involved in this copy operation.
SUMMARY INFORMATION	The summary information includes: the number of rule packets and number of groups selected for a volume copy, the total number of volumes selected for a volume copy, the number already copied, and the number not yet copied.

Unexpire Report

The Unexpire report lists volumes that need CA-1 Scratch Protection. The report is automatically generated when Scratch Protection detects and corrects an invalid expiration date on a volume. The report contains an entry for each tape volume that meets all the conditions listed below:

- File 1 on the volume has expired
- The volume contains at least one unexpired secondary dataset
- The volume has not been scratched

The report also indicates the expiration date applied to the first file on the tape.

REPORT PRINTED 7/28/2000 AT 12:01:34		PAGE 1		
TAPESAVER		VERSION 230		
UNEXPIRE REPORT				
EXPIRATION WILL BE RESET TO				
VOLSER	EXPDT TYPE	EXPDT	HIGHEST EXPDT FILE SEQ #	EXPDT RESET?
100616	JULIAN	09/31/2000	3	YES
128819	JULIAN	09/31/2000	3	YES
100298	JULIAN	09/03/2000	4	YES
112934	JULIAN	09/03/2000	4	YES
100842	JULIAN	09/11/2000	6	YES
117870	JULIAN	09/11/2000	6	YES

This report contains the following information.

Field	Description															
VOLSER	The volume serial number of the volume whose expiration date was reset by Scratch Protection.															
EXPDT TYPE	The type of expiration date applied to the first file on the tape.															
EXPDT	The expiration date that was assigned to the first file on the volume to protect secondary files from premature expiration. If this field is marked with an asterisk, one of the following keyword expiration dates was used: <table border="1"> <thead> <tr> <th>Type of dataset</th> <th>Expiration date</th> <th>How date is shown on report</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>99365</td> <td>PERMANENT</td> </tr> <tr> <td>Catalog control</td> <td>99000</td> <td>CATALOG</td> </tr> <tr> <td>Frequency control</td> <td>98DDD</td> <td>LASTUSEDddd</td> </tr> <tr> <td>Cycle control</td> <td>99CCC</td> <td>CYCLE/ccc</td> </tr> </tbody> </table>	Type of dataset	Expiration date	How date is shown on report	Permanent	99365	PERMANENT	Catalog control	99000	CATALOG	Frequency control	98DDD	LASTUSEDddd	Cycle control	99CCC	CYCLE/ccc
Type of dataset	Expiration date	How date is shown on report														
Permanent	99365	PERMANENT														
Catalog control	99000	CATALOG														
Frequency control	98DDD	LASTUSEDddd														
Cycle control	99CCC	CYCLE/ccc														
HIGHEST EXPDT FILE SEQ #	Indicates which file had the highest expiration date. The expiration date on this file is shown in the EXPDT field and is applied to the first file on the tape.															
EXPDT UPDATED	Indicates whether the expiration date on the volume was updated by Scratch Protection. Y = Expiration date updated. N = Expiration date not updated. This occurs if you use the DEFAULTS TMC_UPDATES control card or if TapeSaver cannot access and update the tape management catalog.															



Index

Symbols

\$ currency symbol 23

A

Activity report 10– 11
ALLEXPXD reason code 32
ALLEXPXD reject reason code 32
ALLOC
 exclusion error 13
audience v

B

BADDSN reject reason code 32
BLKCOUN0 reject reason code 32
BLKSIZE0 reject reason code 32

C

CA-1
 Scratch Protection 43
Candidate report 20– 21
CENT21 reject reason code 32
CLISTS
 TSMONEY 23
Conflict report 38– 39
contacting Customer Service vii
control cards
 listing for a specific run 36
COPYFAIL
 exclusion error 13
currency symbol 23
Customer Service vii
Cycle Control Exception report 41
Cycle Control Status report 40
CYCLE reject reason code 32

D

Dataset Locator report 24– 25
Dataset Migration History report 29– 30

datasets
 rejected from a processing run 32
DENO reject reason code 32
DSORG reject reason code 33

E

errors
 exclusion errors 13
Excluded Datasets Report 13
Excluded Datasets Report 12
exclusion errors
 ALLOC 13
 COPYFAIL 13
 LOCATION 13
 MCAT 13
 MCATFAIL 13
 MULTLIST 13
 NOTGTVOL 13
 OPTIONS 13
 PREVFILE 13
 TMC 13
 TMCUFALL 13
 UNCATMUL 13
Execution Summary report 36– 37
EXPSOON reject reason code 33

F

F1SCRATCH reject reason code 33
F1VDEL reject reason code 33
F3PLUS reject reason code 33
File 1 43
Forecast report 8– 9
FROMJCL reject reason code 33

H

History report 29

L

LOCACONF reject reason code 33
LOCATION
 exclusion error 13
LOWVOLSP reject reason code 33
LTYPESEL reject reason code 33

M

- Master file
 - List Report [17](#)
 - reporting panel [7](#)
- Master File reports
 - generating [5](#)
- MCAT
 - exclusion error [13](#)
- MCAT reject reason code [33](#)
- MCATFAIL
 - exclusion error [13](#)
- MIXDMULT reject reason code [33](#)
- MULTFILE reject reason code [33](#)
- MULTIVL1 reject reason code [33](#)
- MULTIVL2 reject reason code [33](#)
- MULTLIST
 - exclusion error [13](#)

N

- NOGROUP reject reason code [33](#)
- NOTACTIV reject reason code [33](#)
- NOTGTVOL
 - exclusion error [13](#)
- NOTSL reject reason code [33](#)

O

- operational reports
 - generating [31](#)
- OPTIONS
 - exclusion error [13](#)
- OUTCODE reject reason code [34](#)

P

- panel
 - Master File Reporting [7](#)
 - Run Forecast Report From Existing Master File [6](#)
- PASSWORD reject reason code [34](#)
- Phone and fax numbers, UNICOM Systems [vii](#)
- PREVFILE
 - exclusion error [13](#)
- Pull List Report (Mount Order) [16](#)
- Pull List Report (volser order) [14– 15](#)

R

- Reject List report
 - reason codes [32– 35](#)
- Reject List report reason codes [32– 35](#)
- reject reason code
 - ALLEXPDR [32](#)
 - BADDSN [32](#)
 - BLKCOUN0 [32](#)
 - BLKSIZE0 [32](#)
 - CENT21 [32](#)
 - CYCLE [32](#)
 - DEN0 [32](#)
 - DSORG [33](#)
 - EXPSOON [33](#)
 - F1SCRATCH [33](#)
 - F1VDEL [33](#)
 - F3PLUS [33](#)
 - FROMJCL [33](#)
 - LOCACONF [33](#)
 - LOWVOLSP [33](#)
 - LTYPESEL [33](#)
 - MCAT [33](#)
 - MIXDMULT [33](#)
 - MULTFILE [33](#)
 - MULTIVL1 [33](#)
 - MULTIVL2 [33](#)
 - NOGROUP [33](#)
 - NOTACTIV [33](#)
 - NOTSL [33](#)
 - OUTCODE [34](#)
 - PASSWORD [34](#)
 - RESTACK [34](#)
 - RETNTYP [34](#)
 - RULECONF [34](#)
 - SCRATCH [34](#)
 - SLOTNOT0 [34](#)
 - SRVSCR [34](#)
 - TMACCT [34](#)
 - TMSYSREJ [34](#)
 - TSBLKCNT [34](#)
 - TSBLKSI [34](#)
 - TSNXTVOL [34](#)
 - TSOUTAR [35](#)
 - UNCATMUL [35](#)
 - UNMOVEABLE [35](#)
 - UNSUPXPD [35](#)
 - VOLCHAIN [35](#)
- related documentation [vi](#)
- reports
 - Activity [10](#)
 - Candidate [20](#)

- changing currency symbol [23](#)
- Conflict [38](#)
- Cycle Control Exception [41](#)
- Cycle Control Status [40](#)
- Dataset Locator [24](#)
- Dataset Migration History [29](#)
- Excluded Datasets [12](#)
- Execution Summary [36](#)
- Forecast [8](#)
- History [29](#)
- list of [5](#)
- Master File [5](#)
- Master File List [17](#)
- operational [31–43](#)
- Pull List (Mount Order) [16](#)
- Pull List (volser order) [14](#)
- Tape Catalog List [26](#)
- Unexpire [43](#)
- Volume Copy [42](#)
- RESTACK reject reason code [34](#)
- RETNTYP reject reason code [34](#)
- RULECONF reject reason code [34](#)
- Run Forecast Report From Existing Master File
 - panel [6](#)

S

- Scratch Protection [43](#)
- screens
 - Submit A Candidate Report [20](#)
 - Submit A Catalog List report [26](#)
 - Tape Catalog List Report [27](#)
 - Tape Dataset Locator report [24](#)
 - Tapesaver Candidate Report [21](#)
- SCRTCH reject reason code [34](#)
- SLOTNOT0 reject reason code [34](#)
- SRVSCR reject reason code [34](#)

T

- Tape Catalog List report [26–27](#)
- Tape Dataset Locator report
 - screen [24](#)
- Tapesaver Candidate Report
 - screen [21](#)
- UNICOM Systems, phone and fax numbers [vii](#)
- TMACCT reject reason code [34](#)
- TMC
 - exclusion error [13](#)

- TMCUFAIL
 - exclusion error [13](#)
- TMSYSREJ reject reason code [34](#)
- TSBLKCNT reject reason code [34](#)
- TSBLKSI reject reason code [34](#)
- TSMONEY CLIST [23](#)
- TSNXTVOL reject reason code [34](#)
- TSOUTAR reject reason code [35](#)

U

- UNCATMUL
 - exclusion error [13](#)
- UNCATMUL reject reason code [35](#)
- Unexpire report [43](#)
- UNMOVEABLE reject reason code [35](#)
- UNSUPXPD reject reason code [35](#)

V

- VOLCHAIN reject reason code [35](#)
- Volume Copy report [42](#)

