



Program Directory for Tape Manager for z/VM

version 1 release 2.0

Program Number 5697-J08

for Use with
z/VM version 5 release 2
z/VM version 5 release 3
z/VM version 5 release 4

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GI10-8660-03

Note

Before using this information and the product it supports, be sure to read the general information under “Notices” on page 46.

This program directory, dated August 2008, applies to Tape Manager for z/VM version 1 release 2 (Tape Manager), Program Number 5697-J08.

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1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of Tape Manager. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, “Program Materials” on page 2 identifies the basic and optional program materials and documentation for Tape Manager.
- 3.0, “Program Support” on page 5 describes the IBM support available for Tape Manager.
- 4.0, “Program and Service Level Information” on page 6 lists the APARs (program level) and PTFs (service level) incorporated into Tape Manager.
- 5.0, “Installation Requirements and Considerations” on page 7 identifies the resources and considerations for installing and using Tape Manager.
- 6.0, “Installation Instructions” on page 12 provides detailed installation instructions for Tape Manager.
- 7.0, “Service Instructions” on page 28 provides detailed servicing instructions for Tape Manager.
- Appendix A, “Tape Manager Local Modification - EUMUIM ASSEMBLE example” on page 35 provides detailed instructions for applying a local modification to EUMUIM ASSEMBLE.
- Appendix B, “Create Product Parameter File (PPF) Override” on page 37 provides detailed information on overriding the Product Parameter File (PPF).
- Appendix C, “Traditional Service Commands” on page 40 provides alternative instructions for servicing Tape Manager.

Before installing Tape Manager, read 3.1, “Preventive Service Planning” on page 5. This section tells you how to find any updates to the information and procedures in this program directory.

1.1 Program Description

Tape Manager provides a tape management system for z/VM® installations, providing z/VM system administrators and operators the ability to manage, monitor, and protect tape resources. By helping to automate common daily tape operations and eliminate tedious, often error-prone, manual steps, Tape Manager can increase data availability and improve administrator productivity.

2.0 Program Materials

An IBM program is identified by a program number. The program number for Tape Manager for z/VM version 1 is 5697-J08.

The program announcement material describes the features supported by Tape Manager. Ask your IBM marketing representative for this information if you have not already received a copy.

The following sections identify:

- basic and optional program materials available with this program
- publications useful during installation.

2.1 Basic Machine-Readable Material

This program is available through the z/VM SDO on 3480, 3590, or 3592 tape cartridge. With the SDO for z/VM V5.4, only 3590 and 3592 tape cartridges are available. You can also receive this program electronically by ordering it through the z/VM SDO using IBM ShopzSeries. For more information about IBM ShopzSeries go to www.ibm.com/software/ShopzSeries. The tape cartridge or electronic envelope contains all the programs and data needed for installation. See section 6.0, "Installation Instructions" on page 12 for more information about how to install the program. Figure 1 describes the tape cartridge. Figure 2 describes the file content of the program tape cartridge or product envelope.

Figure 1. Basic Material: Program Tape

Feature Number	Medium	Physical Volume	Tape Content	External Tape Label
5802	3480 cart.	1	Tape Manager 1.2.0	Tape Mgr z/VM V1.2
5802	3590 cart.	1	Tape Manager 1.2.0	Tape Mgr z/VM V1.2
5802	3592 cart.	1	Tape Manager 1.2.0	Tape Mgr z/VM V1.2

Please refer to the Media Report, that comes with your order, for a description of the contents of each individual deliverable.

Figure 2 (Page 1 of 2). Program Tape: File Content

Tape File	Content
1	Tape Header
2	Tape Header

Figure 2 (Page 2 of 2). Program Tape: File Content

Tape File	Content
3	Product Header
4	Product Memo
5	Service Apply Lists
6	PTFPARTs
7	Tape Manager Service
8	Tape Manager Aux Files
9	Tape Manager Server Executable Code
10	Tape Manager User Executable Code
11	Tape Manager Sample/Customization Files
12	Tape Manager Base Files

2.2 Optional Machine-Readable Material

There are no optional machine-readable materials for Tape Manager.

2.3 Program Publications

The following sections identify the basic and optional publications for Tape Manager.

2.3.1 Base Program Publications

Figure 3 identifies the program publications for Tape Manager.

Figure 3. Material: Program Publications

Publication Title	Form Number
Tape Manager for z/VM Installation and Administration Guide	SC18-9344
Tape Manager for z/VM User's Guide and Reference	SC18-9349

2.3.2 Softcopy Publicatons

The Tape Manager publications can be found in Adobe® Portable Document Format off of the Tape Manager World Wide Web home page at url:

www.ibm.com/software/stormgmt/zvm/tape/library.html

They can also be downloaded using the specific publication number through the IBM Publication Center at:

www.ibm.com/shop/publications/order

The Publications Center is a world wide central repository for IBM product publications and marketing material.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for Tape Manager.

2.5 Publications Useful During Installation

The publications listed in Figure 4 may be useful during the installation of Tape Manager. To order copies, contact your IBM representative.

Figure 4. Publications Useful During Installation / Service on z/VM Version 5

Publication Title	Form Number
<i>z/VM: VMSES/E Introduction and Reference</i>	GC24-6130
<i>z/VM: Service Guide</i>	GC24-6117
<i>z/VM: CMS Commands and Utilities Reference</i>	SC24-6073
<i>z/VM: CMS File Pool Planning, Administration, and Operation</i>	SC24-6074
<i>z/VM: CP Planning and Administration</i>	SC24-6083
<i>z/VM: Saved Segments Planning and Administration</i>	SC24-6116
<i>Tape Manager for z/VM Administration Guide</i>	SC18-9347
<i>z/VM: Other Components Messages and Codes</i>	GC24-6120
<i>z/VM: CMS and REXX/VM Messages and Codes</i>	GC24-6118
<i>z/VM: CP Messages and Codes</i>	GC24-6119
<i>z/VM: Guide for Automated Installation and Service</i>	GC24-6099

3.0 Program Support

This section describes the IBM support available for Tape Manager.

3.1 Preventive Service Planning

Before installing Tape Manager, check with your IBM Support Center or use IBMLink™ (ServiceLink) to see whether there is additional Preventive Service Planning (PSP) information. To obtain this information, specify the following UPGRADE and SUBSET values:

Figure 5. PSP Upgrade and Subset ID

Retain			
COMPID	Release	Upgrade	Subset
5697J0800	120	TAPEZVM120	TAPE120

3.2 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will tell you where to send any needed documentation.

Figure 6 identifies the component ID (COMPID), Retain Release and Field Engineering Service Number (FESN) for Tape Manager.

Figure 6. Component IDs

Retain			
COMPID	Release	Component Name	FESN
5697J0800	120	Tape Manager 1.2.0	0400005

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of Tape Manager. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs shipped with this product. Information about the cumulative service tape is also provided.

4.1 Program Level Information

The following APAR fixes against the previous release of Tape Manager have been incorporated into this release.

PK09037 / UK05796
PK14470 / UK08701

4.2 Service Level Information

No PTFs have been incorporated into Tape Manager.

Check the TAPEZVM120 PSP bucket for any additional PTFs that should be installed or any additional install information.

4.3 Cumulative Service Tape

Cumulative service for Tape Manager release 2.0 is available through a monthly corrective service tape, Expanded Service Option, ESO. You need to specify the product ID, 5697J08B, when ordering the ESO.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Tape Manager.

5.1 Hardware Requirements

Tape Manager release 2.0 will operate on any hardware that supports the prerequisite software.

Tape Manager will operate any tape device supported by a supported level of CMS. Support for sharing of tape devices requires 3480 tape devices, or later.

5.2 Program Considerations

The following sections list the programming considerations for installing and activating Tape Manager.

5.2.1 Operating System Requirements

Tape Manager supports the following VM operating systems:

- z/VM version 5 release 2
- z/VM version 5 release 3
- z/VM version 5 release 4

5.2.2 Other Program Product Requirements

Tape Manager requires:

- One of the following:
 - IBM Library for REXX on zSeries® R4 (5695-014)
 - IBM Alternate Library for REXX on zSeries. IBM recommends you acquire the latest available version. It's available as a free download from <http://www.ibm.com/software/awdtools/rexx/rexxzseries/index.html>
- DFSMS Removable Media Services (RMS), a feature of z/VM, for support of an Automated Tape Library (ATL) or Virtual Tape Server (VTS)

In addition, when using Tape Manager release 2.0 with DFSMSrmm, the following are required:

- z/OS® V1 (5694-A01) R7, or later
- The DFSMSrmm™ optional feature of the z/OS release installed
- A TCP/IP connection between the z/VM and z/OS systems that will be sharing the RMM tape catalog

5.2.3 Program Installation and Service Considerations

This section describes items that should be considered before you install or service Tape Manager.

- VMSES/E is required to install and service this product.
- If multiple users install and maintain licensed products on your system, there may be a problem getting the necessary access to MAINT's 51D disk. If you find that there is contention for write access to the 51D disk, you can eliminate it by converting the Software Inventory from minidisk to Shared File System (SFS). See the *VMSES/E Introduction and Reference* manual, section "Changing the Software Inventory to an SFS Directory", for information on how to make this change.
- Customers will no longer install and service Tape Manager strictly using the MAINT user ID, but will use a new user ID--5697J08B. This is the IBM suggested user ID name. You are free to change this to any user ID name you wish; however, a PPF override must be created.

Note: It may be easier to make the above PPF override change during the installation procedure 6.2, "Plan Your Installation For Tape Manager" step 6 on page 14, rather than after you have installed this product.

- If you are using an External Security Manager (such as IBM RACF Security Server), the following must be permitted:
 - From user ID 5697J08B, LINK MAINT 51D in MR mode
 - From user ID 5697J08B, LINK MAINT 5E5 in RR mode
 - If you plan to put the Tape Manager general use code on the 'Y' disk (MAINT's 19E disk) or the Tape Manager help files on the system AMENG Help (MAINT's 19D) disk, then one of the following is required:
 - From user ID MAINT, LINK 5697J08B 310 in RR mode
 - From user ID MAINT, ACCESS 5697J08B.TAPEMGR.TESTUSER

The access required depends on whether you are installing Tape Manager on minidisk or in SFS.

- All LINK statements specified in the sample directory entries for the Tape Manager user IDs. Refer to 5.3, "DASD Storage and User ID Requirements" on page 9 for a list of Tape Manager user IDs.
- From TMTMM, TMDMM, TMLM1, TMCMM (if used), and TMRMM (if used), one of the following is required:
 - LINK 5697J08B 2C2 in RR mode
 - ACCESS 5697J08B.TAPEMGR.SAMPLE

The access required depends on whether you are installing Tape Manager on minidisk or in SFS.

- From TMRMM (if used), read access to the TCPIP DATA file on the appropriate TCP/IP disk.
- Read access to the Tape Manager user code for all user IDs that will issue Tape Manager commands. By default, this code is on the 5697J08B 410 minidisk or in the SFS directory VMSYS:5697J08B.TAPEMGR.PRODUSER. During product installation you may copy this code to MAINT 19D and MAINT 19E and let users access it from there.

5.3 DASD Storage and User ID Requirements

Figure 7 on page 9 lists the user IDs, minidisks and default SFS directory names that are used to install and service Tape Manager.

Important Installation Notes:

- User ID(s) and minidisks or SFS directories will be defined in 6.2, “Plan Your Installation For Tape Manager” on page 13 and are listed here so that you can get an idea of the resources that you will need prior to allocating them.
- 5697J08B is a default user ID and can be changed. If you choose to change the name of the installation user ID you need to create a Product Parameter Override (PPF) to reflect this change. This can be done in 6.2, “Plan Your Installation For Tape Manager” step 6 on page 14.
- If you choose to install Tape Manager on a common user ID the default minidisk addresses for Tape Manager may already be defined. If any of the default minidisks required by Tape Manager are already in use you will have to create an override to change the default minidisks for Tape Manager so they are unique.

Figure 7 (Page 1 of 3). DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5697J08B	2B2	3390 9345	4 5	4800	720	Contains all the base code shipped with Tape Manager VMSYS:5697J08B.TAPEMGR.BASE
5697J08B	2C2	3390 9345	1 2	1440	180	Contains sample files. VMSYS:5697J08B.TAPEMGR.SAMPLE
5697J08B	2C4	3390 9345	1 2	1440	180	Contains customization files. This disk may also be used for local modifications. VMSYS:5697J08B.TAPEMGR.LOCALMOD
5697J08B	2D2	3390 9345	30 36	43200	5400	Contains serviced files VMSYS:5697J08B.TAPEMGR.DELTA
5697J08B	2A6	3390 9345	2 3	2880	360	Contains AUX files and software inventory tables that represent the test service level of Tape Manager VMSYS:5697J08B.TAPEMGR.TESTAPPLY

Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3390 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size.

Figure 7 (Page 2 of 3). DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
5697J08B	2A2	3390 9345	2 3	2880	360	Contains AUX files and software inventory tables that represent the service level of Tape Manager that is currently in production. VMSYS:5697J08B.TAPEMGR.PRODAPPLY
5697J08B	300	3390 9345	3 4	4320	540	Test build disk for server code. VMSYS:5697J08B.TAPEMGR.TESTSRVR
5697J08B	400	3390 9345	3 4	4320	540	Production build disk for server code. VMSYS:5697J08B.TAPEMGR.PRODSRVR
5697J08B	310	3390 9345	2 3	2880	360	Test build disk for user code. VMSYS:5697J08B.TAPEMGR.TESTUSER
5697J08B	410	3390 9345	2 3	2880	360	Production build disk for user code. VMSYS:5697J08B.TAPEMGR.PRODUSER
5697J08B	191	3390 9345	10 12	14400	1800	5697J08B user ID's 191 minidisk VMSYS:5697J08B.
5697J08B Totals		3390 9345	60 77	85,440	10,800	Total DASD storage required for user ID 5697J08B. Use the SFS total for 5697J08B in step 5 on page 18.
TMTMM	191	3390 9345	3 4	4320	540	A-disk for TMTMM server. VMSYS:TMTMM.TMM200
TMTMM	200	3390 9345	30 36	43200	5400	Database disk on TMTMM server for Standard Mode (not required for RMM Mode). This disk contains inventory and pool files. VMSYS:TMTMM.TMM200
TMTMM	210	3390 9345	5 6	7200	900	Database disk on TMTMM server for Standard Mode (not required for RMM Mode). This disk contains pool volume files. VMSYS:TMTMM.TMM210
<p>Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3390 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size.</p>						

Figure 7 (Page 3 of 3). DASD Storage Requirements for Target Minidisks

Minidisk owner (user ID)	Default Address	Storage in Cylinders		FB-512 Blocks	SFS 4K Blocks	Usage
		DASD	CYLS			Default SFS Directory Name
TMTMM Totals		3390 9345	38 46	54,720	6,840	Total DASD storage required for user ID TMTMM. Use the SFS total for TMTMM in step 5 on page 18.
TMDMM	191	3390 9345	5 6	7200	900	A-disk for TMDMM server. Use the SFS value for TMDMM in step 5 on page 18. VMSYS:TMDMM.
TMLM1	191	3390 9345	5 6	7200	900	A-disk for TMLM1 server. Use the SFS value for TMLM1 in step 5 on page 18. VMSYS:TMLM1.
TMCMM	191	3390 9345	5 6	7200	900	A-disk for TMCMM server, which supports an external command exit (not required if the command exit is internal to TMTMM or if the command exit is not used.) Use the SFS value for TMCMM in step 5 on page 18. VMSYS:TMCMM.
TMRMM	191	3390 9345	3 4	4320	540	A-disk for TMRMM server for RMM mode (not required for Standard Mode.) Use the SFS value for TMRMM in step 5 on page 18. VMSYS:TMRMM.
All user IDs Totals		3390 9345	116 145	166,080	20,880	Total DASD storage required for all Tape Manager user IDs.
<p>Note: Cylinder values defined in this table are based on a 4K block size. FB-512 block and SFS values are derived from the 3390 cylinder values in this table. The FBA blocks are listed as 1/2K but should be CMS formatted at 1K size.</p>						

6.0 Installation Instructions

This chapter describes the installation methods and the step-by-step procedures to install and activate Tape Manager.

The step-by-step procedures are in two-column format. The steps to be performed are in bold, large numbers. Commands for these steps are on the left-hand side of the page in bold print. Additional information for a command may exist to the right of the command.

Each step of the installation instructions must be followed. Do not skip any step unless directed to do so.

Throughout these instructions, the use of IBM-supplied default minidisk addresses and user IDs is assumed. If you use different user IDs, minidisk addresses, or SFS directories to install Tape Manager, adapt these instructions as needed for your environment.

Note

The sample console output presented throughout these instructions was produced on a z/VM V5.3 system. If you're installing Tape Manager on a different z/VM system, the results obtained for some commands may differ from those depicted here.

6.1 VMSES/E Installation Process Overview

The following is a brief description of the main steps in installing Tape Manager using VMSES/E.

- Plan Your Installation

Use the VMFINS command to load several VMSES/E files from the product tape and to obtain Tape Manager resource requirements.

- Allocate Resources

The information obtained from the previous step is used to allocate the appropriate minidisks (or SFS directories) and user IDs needed to install and use Tape Manager.

- Install the Tape Manager Product

Use the VMFINS command to load the Tape Manager product files from tape to the test BUILD and BASE minidisks/directories. VMFINS is then used to update the VM SYSBLDS file used by VMSES/E for software inventory management.

- Place Tape Manager Files into Production

Copy files from the test BUILD disks to production BUILD disks.

- Perform Post-installation Tasks

Information about file tailoring and initial activation of the program is presented in the Tape Manager Installation and Administration Guide (SC18-9344).

For a complete description of all VMSES/E installation options refer to *VMSES/E Introduction and Reference*.

6.2 Plan Your Installation For Tape Manager

The VMFINS command will be used to plan the installation. This section has 2 main steps that will:

- load the first tape file, containing installation files
- generate a 'PLANINFO' file listing
 - all user ID and mdisks/SFS directory requirements
 - required products

To obtain planning information for your environment:

1 Log on as Tape Manager installation planner.

This user ID can be any ID that has read access to MAINT's 5E5 minidisk and write access to the MAINT 51D minidisk.

2 Mount the Tape Manager installation tape and attach it to the user ID at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181. If you have a product envelope SERVLINK file make sure it is available on the A-disk or any work disk accessed as file mode C.

3 Establish read access to the VMSES/E code.

**link MAINT 5e5 5e5 rr
access 5e5 b**

The 5E5 disk contains the VMSES/E code.

4 Establish write access to the Software Inventory disk.

**link MAINT 51d 51d mr
access 51d d**

The MAINT 51D disk is where the VMSES/E system-level Software Inventory and other dependent files reside.

Note: If another user already has the MAINT 51D minidisk linked in write mode (R/W), you will only obtain read access (R/O) to this minidisk. If this occurs, you will need to have that user re-link the 51D in read-only mode (RR), and then re-issue the above LINK and ACCESS commands. Do not continue with these procedures until a R/W link is established to the 51D minidisk.

5 Load the Tape Manager product control files to the 51D minidisk.

The VMFINS INFO command will perform the following:

- load Memo-to-Users
- load various product control files, including the Product Parameter File (PPF) and the PRODPART files
- create VMFINS PRODLIST on your A-disk. The VMFINS PRODLIST contains a list of products on the installation media.

a If installing from **tape**

vmfins install info (nomemo

The NOMEMO option will load the memos from the tape but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

b If installing from a product **envelope** file

vmfins install info (nomemo env *envfilename*

envfilename is the file name of the product envelope file. The file type must be SERVLINK.

The NOMEMO option will load the memos from the envelope file but will not issue a prompt to send them to the system printer. Specify the MEMO option if you want to be prompted for printing the memo.

```
VMFINS2760I VMFINS processing started
VMFINS1909I VMFINS PRODLIST created on your A-disk
VMFINS2760I VMFINS processing completed successfully
Ready;
```

6 Obtain resource planning information for Tape Manager.

Note:

- The product will **not** be loaded by the VMFINS command at this time.
- If you change the PPF name, a default user ID, or other parameters via a PPF override, you will need to use your changed values instead of those indicated (when appropriate), throughout the rest of the installation instructions, as well as the instructions for servicing Tape Manager. For

example, you will need to specify your PPF override file name instead of 5697J08B for certain VMSES/E commands.

- If you're not familiar with creating PPF overrides using VMFINS, you should review the "Using the Make Override Panel" section in Chapter 3 of the *VMSES/E Introduction and Reference* before you continue. This same chapter has information about changing the VMSYS file pool name, if you need it.

a If installing from **tape**

vmfins install ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (plan nomemo

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

The PLAN option indicates that VMFINS will perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

You can override any of the following:

- the name of the product parameter file
- the default user IDs
- minidisk/directory definitions

b If installing from a product **envelope** file

vmfins install ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (plan nomemo env *envfilename*

envfilename is the file name of the product envelope file. The file type must be SERVLINK.

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

The PLAN option indicates that VMFINS will perform requisite checking, plan system resources, and provide an opportunity to override the defaults in the product parameter file.

You can override any of the following:

- the name of the product parameter file
- the default user IDs
- minidisk/directory definitions

```
VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5697J08B TAPEMGR
             :PRODID 5697J08B%TAPEMGR?
             Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5697J08B TAPEMGR :PRODID
             5697J08B%TAPEMGR
VMFREQ1909I 5697J08B PLANINFO created on your A-disk
VMFREQ2805I Product :PPF 5697J08B TAPEMGR :PRODID 5697J08B%TAPEMGR
             has passed requisite checking
VMFINT2603I Planning for the installation of product :PPF 5697J08B TAPEMGR
             :PRODID 5697J08B%TAPEMGR
VMFRMT2760I VMFRMT processing started
VMFRMT2760I VMFRMT processing completed successfully
VMFINS2760I VMFINS processing completed successfully
```

7 Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview install

6.3 Allocate Resources for Installing Tape Manager

Use the planning information in the 5697J08B PLANINFO file, created in the **PLAN** step, to:

- Create the 5697J08B and service virtual machine user directories for minidisk install. Refer to 6.3.1, “Installing Tape Manager on Minidisk” for detailed instructions.

OR

- Create the 5697J08B and service virtual machine user directories for SFS install. Refer to 6.3.2, “Installing Tape Manager in SFS Directories” for detailed instructions.

6.3.1 Installing Tape Manager on Minidisk

- 1** Obtain the user directories from the 5697J08B PLANINFO file.

Note: The user directory entries are located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5697J08B and service virtual machine user IDs. Use the directory entries found in PLANINFO as a model as input to your system directory.

- 2** Add the MDISK statements to the directory entry for 5697J08B and any service virtual machine you will be using. Use Figure 7 on page 9 to obtain the minidisk requirements.

- 3** Add the 5697J08B and service virtual machine directory entries to the system directory. Change the passwords for all the user IDs you are adding from xxxxx to valid passwords, in accordance with your security guidelines.

- 4** Place the new directory on-line using the DIRECTXA command or an equivalent CP directory maintenance method, such as DIRMAINT.

Note

All minidisks for the 5697J08B user ID and the service virtual machine user IDs must be CMS formatted before installing Tape Manager.

- 5** Continue with 6.4, “Install Tape Manager” on page 20.

6.3.2 Installing Tape Manager in SFS Directories

- 1** Obtain the user directory from the 5697J08B PLANINFO file.

Note: The user directory entries are located in the resource section of the PLANINFO file, at the bottom; these entries will contain all of the links and privilege classes necessary for the 5697J08B and service virtual machine user IDs. Use the directory entries found in PLANINFO as a model as input to your system directory.

2 Add the 5697J08B and service virtual machine directory entries to the system directory. Change the passwords for all the user IDs you are adding from xxxxx to valid passwords, in accordance with your security guidelines.

3 If you intend to use an SFS directory as the work space for the 5697J08B user ID or any of the service virtual machine user IDs you will use, include the following IPL control statement in their directory entry:

```
IPL CMS PARM FILEPOOL VMSYS
```

This will cause CMS to automatically access the user ID's top directory as file mode A.

4 Place the new directory on-line using the DIRECTXA command or an equivalent CP directory maintenance method, such as DIRMAINT.

5 An SFS installation will also require the following steps:

a Determine the number of 4K blocks that are required for SFS directories by adding up the 4K blocks required for each SFS directory, for each user ID, you plan to use.

If you intend to use all of the default Tape Manager SFS directories, the 4K block requirements for the directories are summarized in Figure 7 on page 9.

This information will be used when enrolling the 5697J08B and service virtual machine user IDs in the VMSYS filepool.

b Enroll user 5697J08B in the VMSYS filepool using the ENROLL USER command:

```
ENROLL USER 5697J08B VMSYS: (BLOCKS blocks
```

where *blocks* is the number of 4K blocks that you calculated in the previous step for this user ID only.

Note: This must be done from a user ID that is an administrator for VMSYS: filepool.

c Enroll any of the service virtual machines, that you are going to use, in the VMSYS filepool using the ENROLL USER command. You need to issue an enroll user for each SVM user ID you plan on using.

```
ENROLL USER svmID VMSYS: (BLOCKS blocks
```

where *svmID* is the service virtual machine user ID.

where *blocks* is the number of 4K blocks that you calculated in the previous step for the SVM user ID you are enrolling.

Note: This must be done from a user ID that is an administrator for VMSYS: filepool.

- d** Determine if there are enough blocks available in the filepool to install Tape Manager. This information can be obtained from the QUERY FILEPOOL STORGRP command. If the number of blocks free is smaller than the total 4K blocks needed to install Tape Manager you will need to add space to the filepool. See the *CMS File Pool Planning, Administration, and Operation* manual for information on adding space to a filepool.
- e** Create the necessary subdirectories listed in the 5697J08B PLANINFO file using the CREATE DIRECTORY command.

**set filepool vmsys:
create directory *dirid***

dirid is the name of the SFS directory you're creating. An example of the create command is:

```
create directory vmsys:5697J08B.tapemgr  
create directory vmsys:5697J08B.tapemgr.base  
:
```

If necessary, see the *CMS Command Reference* manual for more information about the CREATE DIRECTORY command.

A complete list of default Tape Manager SFS directories is provided in Figure 7 on page 9.

- f** Give the service virtual machine user IDs, that you will be using, READ authority to the server production build directory, using the GRANT AUTHORITY command. You need to repeat the grant auth command for each SVM you are going to be using.

grant auth vmsys:5697J08B.tapemgr.prodsrvr to *svmid* (read newread

where *svmid* is the service virtual machine user ID.

If necessary, see the *CMS Command Reference* manual for more information about the GRANT AUTHORITY command.

- g** If you are going to place Tape Manager general use code on MAINT's 19E disk then you need to give the **MAINT** user ID READ authority to the general-use test build directory, using the GRANT AUTHORITY command. Refer to step 3 on page 24 for more information on placing general use code on MAINT 19E disk.

grant auth vmsys:5697J08B.tapemgr.testuser to MAINT (read newread

If necessary, see the *CMS Command Reference* manual for more information about the GRANT AUTHORITY command.

6.4 Install Tape Manager

The *ppfname* used throughout these installation instructions is **5697J08B**, which assumes you are using the PPF supplied by IBM for Tape Manager. If you have your own PPF override file for Tape Manager, you should use your file's *ppfname* instead of **5697J08B**. The *ppfname* you use should be used **throughout** the rest of this procedure.

- 1** Logon to the installation user ID **5697J08B**.
- 2** Create a PROFILE EXEC that will contain the ACCESS commands for MAINT 5E5 and 51D minidisks.

```
xedit profile exec a
====> input /**/
====> input 'access 5e5 b'
====> input 'access 51d d'
====> file
```

If either 5E5 or 51D is in a shared file system (SFS) then substitute your SFS directory name in the access command.

- 3** Run the profile to access MAINT's minidisks.

profile

- 4** If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user who has it linked R/W link it as R/O. You then can issue the following commands to obtain R/W access to it.

```
link MAINT 51d 51d mr
access 51d d
```

- 5** Have the Tape Manager installation tape mounted and attached to 5697J08B at virtual address 181. The VMFINS EXEC requires the tape drive to be at virtual address 181. If you have a product envelope SERVLINK file make sure it is available on the A-disk or any work disk accessed as file mode C.

6 Install Tape Manager.

Note:

- If you have already created a PPF override file, you should specify your override file name, in place of the default PPF name (5697J08B), after the **PPF** keyword for the following VMFINS command.
- You may be prompted for additional information during VMFINS INSTALL processing depending on your installation environment. If you're unsure how to respond to a prompt, refer to the "Installing Products with VMFINS" and "Install Scenarios" chapters in the *VMSES/E Introduction and Reference* to decide how to proceed.

a If installing from **tape**

vmfins install ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (nomemo nolink

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

The NOLINK option indicates that you don't want VMFINS to link to the appropriate minidisks, only access them if not accessed.

b If installing from a product **envelope**

vmfins install ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (nomemo nolink env *envfilename*

envfilename is the file name of the product envelope file. The file type must be SERVLINK.

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

The NOLINK option indicates that you don't want VMFINS to link to the appropriate minidisks, only access them if not accessed.

```

VMFINS2767I Reading VMFINS DEFAULTS B for additional options
VMFINS2760I VMFINS processing started
VMFINS2601R Do you want to create an override for :PPF 5697J08B TAPEMGR
:PRODID 5697J08B%TAPEMGR?
Enter 0 (No), 1 (Yes) or 2 (Exit)
0
VMFINS2603I Processing product :PPF 5697J08B TAPEMGR :PRODID
5697J08B%TAPEMGR
VMFREQ2805I Product :PPF 5697J08B TAPEMGR :PRODID 5697J08B%TAPEMGR
has passed requisite checking
VMFINT2603I Installing product :PPF 5697J08B TAPEMGR :PRODID
5697J08B%TAPEMGR
VMFSET2760I VMFSETUP processing started for 5697J08B TAPEMGR
VMFUTL2205I Minidisk|Directory Assignments:
String Mode Stat Vdev Label/Directory
VMFUTL2205I LOCALMOD E R/W 2C4 TMR2C4
VMFUTL2205I LOCALSAM F R/W 2C2 TMR2C2
VMFUTL2205I APPLY G R/W 2A6 TMR2A6
VMFUTL2205I H R/W 2A2 TMR2A2
VMFUTL2205I DELTA I R/W 2D2 TMR2D2
VMFUTL2205I BUILD0 J R/W 300 TMR300
VMFUTL2205I BUILD2 K R/W 310 TMR310
VMFUTL2205I BASE1 L R/W 2B2 TMR2B2
VMFUTL2205I ----- A R/W 191 TMR191
VMFUTL2205I ----- B R/O 5E5 MNT5E5
VMFUTL2205I ----- D R/W 51D MNT51D
VMFUTL2205I ----- S R/O 190 CMS21
VMFUTL2205I ----- Y/S R/O 19E YDISK
VMFSET2760I VMFSETUP processing completed successfully
VMFREC2760I VMFREC processing started
VMFREC1852I Volume 1 of 1 of INS TAPE 0500
VMFREC1851I (1 of 8) VMFRCAXL processing AXLIST
VMFRCX2159I Loading 0 part(s) to DELTA 2D2 (I)
VMFREC1851I (2 of 8) VMFRCPTF processing PARTLST
VMFRCP2159I Loading 0 part(s) to DELTA 2D2 (I)
VMFREC1851I (3 of 8) VMFRCCOM processing DELTA
VMFRCC2159I Loading 0 part(s) to DELTA 2D2 (I)
VMFREC1851I (4 of 8) VMFRCALL processing APPLY
VMFRCA2159I Loading part(s) to APPLY 2A6 (G)
VMFRCA2159I Loaded 1 part(s) to APPLY 2A6 (G)
VMFREC1851I (5 of 8) VMFRCALL processing SERVER
VMFRCA2159I Loading part(s) to BUILD0 300 (J)
VMFRCA2159I Loaded 18 part(s) to BUILD0 300 (J)
VMFREC1851I (6 of 8) VMFRCALL processing USER
VMFRCA2159I Loading part(s) to BUILD2 310 (K)
VMFRCA2159I Loaded 27 part(s) to BUILD2 310 (K)
VMFREC1851I (7 of 8) VMFRCALL processing SAMPLE
VMFRCA2159I Loading part(s) to LOCALSAM 2C2 (F)
VMFRCA2159I Loaded 21 part(s) to LOCALSAM 2C2 (F)
VMFREC1851I (8 of 8) VMFRCALL processing BASE
VMFRCA2159I Loading part(s) to BASE1 2B2 (L)
VMFRCA2159I Loaded 74 part(s) to BASE1 2B2 (L)
VMFREC2760I VMFREC processing completed successfully
VMFINT2603I Product installed
VMFINS2760I VMFINS processing completed successfully

```

- 7 Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview install

6.4.1 Update Build Status Table for Tape Manager

- 1 Update the VM SYSBLDS software inventory file for Tape Manager.

vmfins build ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (serviced nolink

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

The SERVICED option will build any parts that were not built on the installation tape (if any) and update the Software Inventory build status table showing that the product 5697J08B has been built.

- 2 Review the install message log (\$VMFINS \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview install

6.5 Place Tape Manager Into Production

If you are installing using minidisks, follow the steps in 6.5.1, “Copy Tape Manager Files Into Production Using Minidisks” on page 24 and then go to 6.6, “Post-Installation Considerations” on page 27.

If you are installing using Shared File System, follow the steps in 6.5.2, “Copy Tape Manager Files Into Production Using Shared File System” on page 25 and then go to 6.6, “Post-Installation Considerations” on page 27.

6.5.1 Copy Tape Manager Files Into Production Using Minidisks

- 1 Logon to 5697J08B to move the Tape Manager Service Machine executables to the production disk.

access 300 e The VMFCOPY command will update the VMSES
access 400 f PARTCAT file on the 400 disk.
vmfcopy * * e = = f (prodid 5697J08B%TAPEMGR olddate replace

- 2 Logon to 5697J08B to move the general use code and help files to the production disk.

Note: The files include a DMSTVI MODULE that is loaded automatically by CMS during OS simulation processing under certain conditions. If you do not wish to have the module generally available then erase the module from the general access disk or control the access to that disk. Refer to the Tape Manager Installation and Administration Guide (SC18-9344) for more details.

access 310 e The VMFCOPY command will update the VMSES
access 410 f PARTCAT file on the 410 disk.
vmfcopy * * e = = f (prodid 5697J08B%TAPEMGR olddate replace

- 3 Logon to MAINT if you plan to put Tape Manager general use code on the 'Y' disk (product code or MAINT's 19E disk). Or logon to the owner of the disk that will contain the 'production' level of the Tape Manager code.

Note: The files include a DMSTVI MODULE that is loaded automatically by CMS during OS simulation processing under certain conditions. If you do not wish to have the module generally available then erase the module from the general access disk or control the access to that disk. Refer to the Tape Manager Installation and Administration Guide (SC18-9344) for more details.

link 5697J08B 310 310 rr The VMFCOPY command will update the VMSES
access 310 e PARTCAT file on the 19E disk.
access 19e f
vmfcopy * module e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy tapcmd defaults e = = f2 (prodid 5697J08B%TAPEMGR olddate replace

- 4 Logon to MAINT if you plan to put Tape Manager help files on the system AMENG Help (MAINT's 19D) disk.

link 5697J08B 310 310 rr
access 310 e
access 19d f

vmfcopy * helpaeum e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy aeum helpmenu e = = f2 (prodid 5697J08B%TAPEMGR olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the AMENG Help (MAINT 19D) disk.

- 5 If the MAINT 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how to save the CMS saved system.
- 6 If the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Tape Manager's help files from the AMENG Help (MAINT's 19D) disk. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use (**all** instead of (**serviced** on the VMSES/E VMFBLD command when re-building any segments.)
- 7 Continue with 6.6, "Post-Installation Considerations" on page 27.

6.5.2 Copy Tape Manager Files Into Production Using Shared File System

- 1 Logon to 5697J08B and move the Tape Manager Service Machine executables to the production disk.

access 5697J08B.TAPEMGR.TESTSRVR e
access 5697J08B.TAPEMGR.PRODSRVR f
vmfcopy * * e = = f (prodid 5697J08B%TAPEMGR olddate replace

The VMFCOPY command will update the VMSES PARTCAT file in the PRODSRVR directory.

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 2 Logon to 5697J08B to move the general use code and help files to the production disk.

Note: The files include a DMSTVI MODULE that is loaded automatically by CMS during OS simulation processing under certain conditions. If you do not wish to have the module generally available then erase the module from the general access disk or control the access to that disk.

Refer to the Tape Manager Installation and Administration Guide (SC18-9344) for more details.

access 5697J08B.TAPEMGR.TESTUSER e The VMFCOPY command will update the VMSES
access 5697J08B.TAPEMGR.PRODUSER f PARTCAT file in the PRODUSER directory.
vmfcopy * * e = = f (prodid 5697J08B%TAPEMGR olddate replace

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 3** Logon to MAINT if you plan to put Tape Manager general use code on the 'Y' disk (product code or MAINT's 19E disk). Or logon to the owner of the disk that will contain the 'production' level of the Tape Manager code.

Note: The files include a DMSTVI MODULE that is loaded automatically by CMS during OS simulation processing under certain conditions. If you do not wish to have the module generally available then erase the module from the general access disk or control the access to that disk. Refer to the Tape Manager Installation and Administration Guide (SC18-9344) for more details.

access 5697J08B.TAPEMGR.TESTUSER e The VMFCOPY command will update the VMSES
access 19e f PARTCAT file on the 19E disk.
vmfcopy * module e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy tapcmd defaults e = = f2 (prodid 5697J08B%TAPEMGR olddate replace

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 4** Logon to MAINT if you plan to put Tape Manager help files on the system AMENG Help (MAINT's 19D) disk.

access 5697J08B.TAPEMGR.TESTUSER e The VMFCOPY command will update the VMSES
access 19d f PARTCAT file on the AMENG Help (MAINT 19D)
disk.
vmfcopy * helpaeum e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy aeum helpmenu e = = f2 (prodid 5697J08B%TAPEMGR olddate replace

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 5** If the MAINT 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how to save the CMS saved system.
- 6** If the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Tape Manager's help files from the AMENG Help (MAINT's 19D) disk. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use (**all** instead of (**serviced** on the VMSES/E VMFBLD command when re-building any segments.)

6.6 Post-Installation Considerations

Post-installation information is contained in the Tape Manager Installation and Administration Guide (SC18-9344). Perform the steps required for file tailoring and initial activation of the program, as described in the Installation and Administration Guide, before continuing.

Tape Manager is now installed, built, and customized on your system.

7.0 Service Instructions

This section of the Program Directory contains the procedure to install CORrective service to Tape Manager. VMSES/E is used to install service for Tape Manager.

To become more familiar with service using VMSES/E, you should read the introductory chapters in the *VMSES/E Introduction and Reference*. This manual also contains the command syntax for the VMSES/E commands listed in the procedure.

Note: Each step of the service instructions must be followed. Do not skip any step unless directed to do so. All instructions showing accessing of disks assume the use of default minidisk addresses. If different minidisk addresses are used, or if using a shared file system, change the instructions appropriately.

7.1 VMSES/E Service Process Overview

The following is a brief description of the main steps in servicing Tape Manager using VMSES/E.

- Setup Environment
Access the software inventory disk. Use VMFSETUP command to establish the correct minidisk access order.
- Merge Service
The VMFMRDSK command clears the alternate apply disk before receiving new service. This allows you to remove the new service if a serious problem is found.
- Receive Service
The VMFREC command receives service from the delivery media and places it on the Delta disk.
- Apply Service
The VMFAPPLY command updates the version vector table (VVT), which identifies the service level of all the serviced parts. In addition, AUX files are generated from the VVT for parts that require them.
- Reapply Local Service (if applicable)
All local service (mods) must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. Refer to Chapter 7 in the *Service Guide* for this procedure.
- Build New Levels
The build task generates the serviced level of an object and places the new object on a test BUILD disk.
- Place the New Service into Production
Once the service is satisfactorily tested it should be put into production by copying the new service to the production disk, etc.

7.2 Servicing Tape Manager

Electronic Service (envelope file)

If you have received the service electronically or on CD-ROM, follow the appropriate instructions to retrieve and decompress the envelope files to your A-disk. The decompression is currently done by using the DETERSE MODULE (shipped with VMSES/E).

The documentation envelope and the service (PTF) envelope must have a file type of SERVLINK. Make note of the file names that you are using as you will need to enter them in place of the variable *docenvfn* and *envfilename* in the VMSES/E service commands that follow.

The preferred method for installing service to z/VM products is to use the automated SERVICE command. The SERVICE command automates issuing the VMFREC, VMFAPPLY and VMFBLD commands. It can be used for Tape Manager after the product information for Tape Manager has been added to the VMSES/E Service Update Facility software inventory table (VM SYSSUF).

To use the automated SERVICE command to install your CORrective PTF service follow the instructions in 7.2.1, "Automated Service Commands." Otherwise follow the instructions in Appendix C, "Traditional Service Commands" on page 40.

7.2.1 Automated Service Commands

- 1** Logon to Tape Manager service user ID **5697J08B**
- 2** As a precaution, create a backup copy of the current Tape Manager disks or SFS directories. Save this copy of Tape Manager until you have completed installing the service and you are confident that the service runs correctly.
- 3** If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.
Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

**link MAINT 51d 51d mr
access 51d d**

The 51D minidisk is where the VMSES/E Software Inventory files and other product dependent files reside.

- 4** Add Tape Manager into the VM SYSSUF inventory table. This step only needs to be done once. It can be skipped the next time you apply service.

vmfsuftb

- 5** Have the Tape Manager CORrective service tape mounted and attached to **5697J08B** as 181. If you have an envelope (SERVLINK) file make sure it is available on the A-disk or any minidisk or SFS directory accessed as file mode C.
- 6** If you are servicing from an envelope file you need to receive any memos from the documentation envelope file and review them. You skip this step if you have a service tape as the memos will be loaded down during SERVICE execution against the tape.

**service {5697J08B%tapemgr | 5697J08B%tapemgrsfs} docenvfn
vmfupdat systememo**

docenvfn is the file name of the documentation envelope (SERVLINK) file.

Use **tapemgr** if you installed the product on minidisks or **tapemgrsfs** if you installed the product in Shared File System directories.

7 Receive, Apply and Build the service

a If servicing from tape

service {5697J08B%tapemgr | 5697J08B%tapemgrsfs}

Use **tapemgr** if you installed the product on minidisks or **tapemgrsfs** if you installed the product in Shared File System directories.

b If servicing from an envelope file

service {5697J08B%tapemgr | 5697J08B%tapemgrsfs} envfilename

envfilename is the file name of the COR (PTF) service envelope (SERVLINK) file.

Use **tapemgr** if you installed the product on minidisks or **tapemgrsfs** if you installed the product in Shared File System directories.

- 8** Check the service message log (\$VMFSRV \$MSGLOG) for warning and error messages. Take appropriate action based on any warning messages received. Correct all errors reported and restart by issuing the SERVICE command as displayed in message VMFSRV2310W.

vmfview service

- 9 Use the VMFUPDAT SYSMEMO command to review any additional memos that were received with the service.

vmfupdat sysmemo

- 10 Continue with 7.3, "Place the New Tape Manager Service Into Production" to copy the new serviced files into production.

7.3 Place the New Tape Manager Service Into Production

If you installed the product using minidisks, follow the steps in 7.3.1, "Copy the New Tape Manager Serviced Files Into Production Using Minidisks."

If you installed the product using Shared File System, follow the steps in 7.3.2, "Copy the New Tape Manager Serviced Files Into Production Using Shared File System" on page 33.

7.3.1 Copy the New Tape Manager Serviced Files Into Production Using Minidisks

- 1 Logon to 5697J08B to move the Tape Manager Service Machine executables to the production disk.

access 300 e

access 400 f

vmfcopy * * e = f (prodid 5697J08B%TAPEMGR olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 400 disk.

- 2 Logon to 5697J08B to move the general use code and help files to the production disk.

Note: The files include a DMSTVI MODULE that is loaded automatically by CMS during OS simulation processing under certain conditions. If you do not wish to have the module generally available then erase the module from the general access disk or control the access to that disk. Refer to the Tape Manager Installation and Administration Guide (SC18-9344) for more details.

access 310 e

access 410 f

vmfcopy * * e = f (prodid 5697J08B%TAPEMGR olddate replace

The VMFCOPY command will update the VMSES PARTCAT file on the 410 disk.

- 3** Logon to MAINT if you plan to put Tape Manager general use code on the 'Y' disk (product code or MAINT's 19E disk). Or logon to the owner of the disk that will contain the 'production' level of the Tape Manager code.

Note: The files include a DMSTVI MODULE that is loaded automatically by CMS during OS simulation processing under certain conditions. If you do not wish to have the module generally available then erase the module from the general access disk or control the access to that disk. Refer to the Tape Manager Installation and Administration Guide (SC18-9344) for more details.

link 5697J08B 310 310 rr
access 310 e
access 19e f

The VMFCOPY command will update the VMSES PARTCAT file on the 19E disk.

vmfcopy * module e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy tapcmd defaults e = = f2 (prodid 5697J08B%TAPEMGR olddate replace

- 4** Logon to MAINT if you plan to put Tape Manager help files on the system AMENG Help (MAINT's 19D) disk.

link 5697J08B 310 310 rr
access 310 e
access 19d f

The VMFCOPY command will update the VMSES PARTCAT file on the AMENG Help (MAINT 19D) disk.

vmfcopy * helpaeum e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy aeum helpmenu e = = f2 (prodid 5697J08B%TAPEMGR olddate replace

- 5** If the MAINT 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how to save the CMS saved system.

- 6** If the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Tape Manager's help files from the AMENG Help (MAINT's 19D) disk. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use (**all** instead of (**serviced** on the VMSES/E VMFBLD command when re-building any segments.)

You have finished servicing Tape Manager.

7.3.2 Copy the New Tape Manager Serviced Files Into Production Using Shared File System

- 1 Logon to 5697J08B to move the Tape Manager Service Machine executables to the production disk.

```
access 5697J08B.TAPEMGR.TESTSRVR e          The VMFCOPY command will update the VMSES
access 5697J08B.TAPEMGR.PRODSRVR f          PARTCAT file in the PRODSRVR directory.
vmfcopy * * e = = f (prodid 5697J08B%TAPEMGR olddate replace
```

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 2 Logon to 5697J08B to move the general use code to the production disk.

```
access 5697J08B.TAPEMGR.TESTUSER e          The VMFCOPY command will update the VMSES
access 5697J08B.TAPEMGR.PRODUSER f          PARTCAT file in the PRODUSER directory.
vmfcopy * * e = = f (prodid 5697J08B%TAPEMGR olddate replace
```

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 3 Logon to MAINT if you plan to put Tape Manager general use code on the 'Y' disk (product code or MAINT's 19E disk). Or logon to the owner of the disk that will contain the 'production' level of the Tape Manager code.

```
access 5697J08B.TAPEMGR.TESTUSER e          The VMFCOPY command will update the VMSES
access 19e f                                PARTCAT file on the 19E disk.
vmfcopy * module e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy tapcmd defaults e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
```

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 4 Logon to MAINT if you plan to put Tape Manager help files on the system AMENG Help (MAINT's 19D) disk.

access 5697J08B.TAPEMGR.TESTUSER e
access 19d f

The VMFCOPY command will update the VMSES PARTCAT file on the AMENG Help (MAINT 19D) disk.

vmfcopy * helpaeum e = = f2 (prodid 5697J08B%TAPEMGR olddate replace
vmfcopy aeum helpmenu e = = f2 (prodid 5697J08B%TAPEMGR olddate replace

Note that although you are installing in SFS, you should **not** use TAPEMGRSFS in this command. TAPEMGR is required.

- 5** If the MAINT 19E disk was updated, rebuild the CMS saved system, to return the Y-disk (product code or MAINT's 19E disk) to 'shared' status. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how to save the CMS saved system.
- 6** If the MAINT 19D disk was updated, rebuild the CMS HELP logical saved segment, to include Tape Manager's help files from the AMENG Help (MAINT's 19D) disk. See the "Placing (Serviced) Components into Production" section of the *Service Guide* for detailed information about how these segments should be saved on your system. (Note that you will need to use (**all** instead of (**serviced** on the VMSES/E VMFBLD command when re-building any segments.)

You have finished servicing Tape Manager.

Appendix A. Tape Manager Local Modification - EUMUIM ASSEMBLE example

All local modifications to serviceable parts must be entered into the software inventory to allow VMSES/E to track the changes and build them into the system. For generic commands for all types of local modifications refer to *z/VM Service Guide*.

The following example shows the commands needed to put a local modification on to the full part replacement assemble file EUMUIM as well as updating the build list for the DMSTVI MODULE to include the EUMUIM TEXT file in to the module.

1 Logon to the 5697J08B user ID.

2 Establish the 5697J08B's minidisk order.

vmfsetup 5697J08B {TAPEMGR | TAPEMGRSFS} Use TAPEMGR if installed to minidisks. Use TAPEMGRSFS if installed into SFS directories.

3 Copy the highest level of the assemble file to the 2C4 disk (E-disk).

vmfrepl eumuim assemble 5697J08B {TAPEMGR | TAPEMGRSFS} (\$select logmod L0001 outmode localmod

4 XEDIT the ASSEMBLE file on the LOCALMOD 2C4 disk and make your local modification changes to it.

xedit eumuim asml0001

5 Build the new ASSEMBLE file.

vmfbld ppf 5697J08B {TAPEMGR | TAPEMGRSFS} eumblins (serviced

6 Issue the assemble command for the file:

vmfasm eumuim 5697J08B {TAPEMGR | TAPEMGRSFS} (\$select logmod outmode localmod

7 Copy the highest level of the build list, that the EUMUIM TEXT file is in, to the 2C2 (E-disk) local disk.

vmfrepl eumblinx exec 5697J08B {TAPEMGR | TAPEMGRSFS} (\$select logmod L0001 outmode localmod

- 8 XEDIT the EUMBLINX build list and remove the '*' in front of the EUMUIM part. the 2C2 disk, at the end of the build list.

xedit eumblinx excl0001

The following is an example of what you would see in the EUMBLINX build list:

```
:OBJNAME. DMSTVI.MODULE NOMAP
:OPTIONS. NOMAP CLEAR RLDSAVE NOUNDEF AUTO
:PARTID. DMSTVI TXT
*:PARTID. EUMUIM TXT
:EOBJNAME.
```

You just need to remove the '*' in front of the :PARTID. EUMUIM TXT record and then type FILE on the command line.

- 9 Build your new local modification in to the DMSTVI MODULE on the test build disk.

vmfbld ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (serviced

- 10 Place the new local modification into production.

a If installing using minidisks

access 310 e The VMFCOPY command will update the VMSES
access 410 f PARTCAT file on the 410 disk.
vmfcopy DMSTVI MODULE e = f (prodid 5697J08B%TAPEMGR olddate replace

b If installing using Shared File System

access 5697J08B.TAPEMGR.TESTUSER e The VMFCOPY command will update the VMSES
access 5697J08B.TAPEMGR.PRODUSER f PARTCAT file in the PRODUSER directory.
vmfcopy DMSTVI MODULE e = f (prodid 5697J08B%TAPEMGR olddate replace

Also, if you have placed the DMSTVI MODULE on MAINT 19E disk or any other disk then you need to replace that copy with this new copy.

- 11 Users that have the production user code disk or SFS directory accessed will need to link and access the disk or access the directory again in order to use the new copy of the DMSTVI MODULE.

Appendix B. Create Product Parameter File (PPF) Override

This section provides information to help you create a product parameter file (PPF) override. The example used in this section shows how to change the shared file system (SFS) file pool where Tape Manager files reside.

Note: Do **not** modify the product supplied 5697J08B \$PPF or 5697J08B PPF files to change the file pool name or any other installation parameters. If the 5697J08B \$PPF file is serviced, the existing \$PPF file will be replaced, and any changes to that file will be lost; by creating your own \$PPF override, your updates will be preserved.

The following process describes changing the default file pool name, VMSYS, to MYPOOL1:.

- 1 Create a new \$PPF override file, or edit the override file created via the 'Make Override Panel' function.

xedit *overname* \$PPF *fm*2

overname is the PPF override file name (such as 'mytapemgr') that you want to use.

fm is an appropriate file mode. If you create this file yourself, specify a file mode of A.

If you modify an existing override file, specify a file mode of A or D, based on where the file currently resides (A being the file mode of a R/W 191 minidisk, or equivalent; D, that of the MAINT 51D minidisk).

- 2 Create (or modify as required) the Variable Declarations (:DCL.) section for the tapemgrsfs override area, so that it resembles the :DCL. section shown below. This override will be used for the installation of Tape Manager. Modifications needed are denoted in **bold** print.

```

:OVERLST. TAPEMGRSFS
*
* =====
* Override Section for Initial Installation (Using SFS Directories) *
* =====
:TAPEMGRSFS. TAPEMGRSFS 5697J08B
:DCL. UPDATE
&191      DIR MYPPOOL1:5697J08B.
&BAS1Z    DIR MYPPOOL1:5697J08B.TAPEMGR.BASE
&SAMPZ    DIR MYPPOOL1:5697J08B.TAPEMGR.SAMPLE
&LMDZ     DIR MYPPOOL1:5697J08B.TAPEMGR.LOCALMOD
&DELTZ    DIR MYPPOOL1:5697J08B.TAPEMGR.DELTA
&APPLX    DIR MYPPOOL1:5697J08B.TAPEMGR.TESTAPPLY
&APPLZ    DIR MYPPOOL1:5697J08B.TAPEMGR.PRODAPPLY
&BLD0Z    DIR MYPPOOL1:5697J08B.TAPEMGR.TESTSRVR
&BLD1Z    DIR MYPPOOL1:5697J08B.TAPEMGR.PRODSRVR
&BLD2Z    DIR MYPPOOL1:5697J08B.TAPEMGR.TESTUSER
&BLD3Z    DIR MYPPOOL1:5697J08B.TAPEMGR.PRODUSER
&TMM191P  DIR MYPPOOL1:TMTMM.
&TMM200P  DIR MYPPOOL1:TMTMM.TMM200
&TMM210P  DIR MYPPOOL1:TMTMM.TMM210
&DMM191P  DIR MYPPOOL1:TMDMM.
&LMM191P  DIR MYPPOOL1:TMLM1.
&CMM191P  DIR MYPPOOL1:TMCMM.
&RMM191P  DIR MYPPOOL1:TMRMM.
:EDCL.
:END.
*

```

(This override will replace the :DCL. section of the tapemgrsfs override area of the 5697J08B \$PPF file.)

- 3 If your \$PPF override file was created at file mode A, copy it to file mode D—the Software Inventory minidisk (MAINT 51D). Then erase it from file mode A.

```

file
copyfile overname $PPF fm = = d (olddate)
erase overname $PPF fm

```

- 4 Compile your changes to create the usable *overname* PPF file.

vmfppf *overname* **TAPEMGRSFS**

where *overname* is the file name of your \$PPF override file.

Now that the *overname* PPF file has been created, you should specify *overname* instead of 5697J08B as the PPF name to be used for those VMSES/E commands that require a PPF name.

Appendix C. Traditional Service Commands

C.1.1.1 Prepare to Receive Service

The *ppfname* used throughout these servicing instructions is **5697J08B**, which assumes you are using the PPF supplied by IBM for Tape Manager. If you have your own PPF override file for Tape Manager, you should use your file's *ppfname* instead of **5697J08B**. The *ppfname* you use should be used **throughout** the rest of this procedure, unless otherwise stated differently.

- 1** Logon to Tape Manager service user ID **5697J08B**
- 2** As a precaution, create a backup copy of the current Tape Manager disks or SFS directories. Save this copy of Tape Manager until you have completed installing the service and you are confident that the service runs correctly.
- 3** If the Software Inventory disk (51D) was accessed R/O (read only) then establish write access to the Software Inventory disk.

Note: If the MAINT 51D minidisk was accessed R/O, you will need to have the user that has it accessed R/W link it R/O. You then can issue the following commands to obtain R/W access to it.

**link MAINT 51d 51d mr
access 51d d**

The 51D minidisk is where the VMSES/E Software Inventory files and other product dependent files reside.

- 4** Have the Tape Manager CORrective service tape mounted and attached to **5697J08B** as 181. If you have an envelope (SERVLINK) file file make sure that it is available on the A-disk or any minidisk or SFS directory accessed as file mode C.

- 5** Receive the documentation.

- a** If receiving the service from tape

vmfrec info

The INFO option loads the documentation (including the product service memo) to the 191 disk and displays a list of products on the tape.

- b** If receiving the service from an envelope file

vmfrec info (env docenvfn

The INFO option loads the documentation (including the product service memo) to the 191 disk and displays a list of products in the envelope file.

- 6 Check the receive message log (\$VMFREC \$MSGLOG) for warning and error messages.

vmfview receive

Also make note of which products and components have service. To do this, use the PF5 key to show all status messages which identify the products with service.

- 7 Read the product memo (5697J08B MEMO) before going on.
- 8 Setup the correct product access order.

vmfsetup 5697J08B {TAPEMGR | TAPEMGRSFS}

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

- 9 Merge previously applied service to ensure that you have a clean alternate APPLY disk for new service.

vmfmrdsk 5697J08B {TAPEMGR | TAPEMGRSFS} apply

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

This command clears the alternate APPLY disk.

- 10 Review the merge message log (\$VMFMRD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview mrd

C.1.1.2 Receive the Service

Note: If you are installing multiple service tapes or envelope files, you can receive all of the service for this prodid before applying and building it.

For **each** service tape or electronic envelope you want to receive, do the following:

- 1 Receive the service.
 - a If receiving the service from tape

vmfrec ppf 5697J08B {TAPEMGR | TAPEMGRSFS}

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

This command receives service from your service tape. All new service is loaded to the DELTA disk.

b If receiving the service from the PTF envelope file

vmfrec ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (env envfilename

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

This command receives service from your service envelope. All new service is loaded to the DELTA disk.

- 2** Review the receive message log (\$VMFREC \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview receive

C.1.1.3 Apply the Service

- 1** Apply the new service.

vmfapply ppf 5697J08B {TAPEMGR | TAPEMGRSFS}

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

This command applies the service that you just received. The version vector table (VVT) is updated with all serviced parts and all necessary AUX files are generated on the alternate APPLY disk.

You must review the VMFAPPLY message log if you receive a return code (RC) of a 4, as this may indicate that you have local modifications that need to be reworked.

- 2 Review the apply message log (\$VMFAPP \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview apply

Note

If you get the message VMFAPP2120W then re-apply any local modifications before building the new Tape Manager. Refer to chapter 7 in the *Service Guide*. Follow the steps that are applicable to your local modification.

The following substitutions need to be made:

- **zvm** should be **5697J08B**
- *compname* should be **TAPEMGR** or **TAPEMGRSFS** (minidisk or SFS)
- *appid* should be **5697J08B**
- *fm-local* should be the fm of 2C4
- *fm-applyalt* should be the fm of 2A6

If you have changed any of the installation parameters through a PPF override, you need to substitute your changed values where applicable.

Keep in mind that when you get to the "Return to the Appropriate Section to Build Remaining Objects" or "Rebuild Remaining Objects" step in the VM *Service Guide*, you should return back to this program directory at C.1.1.4, "Update the Build Status Table."

C.1.1.4 Update the Build Status Table

- 1 Update the Build Status Table with serviced parts.

vmfbld ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (status

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

This command updates the Build Status Table.

Note

If the \$PPF files have been serviced you will get the following prompt:

```
VMFB LD2185R The following source product parameter files have been
serviced:
VMFB LD2185R 5697J08B $PPF
VMFB LD2185R When source product parameter files are serviced, all
product parameter files built from them must be recompiled
using VMFP PF before VMFB LD can be run.
VMFB LD2185R Enter zero (0) to have the latest level of the source product
parameter files copied to your A-disk and exit VMFB LD so
you can recompile your product parameter files with VMFP PF.
Enter one (1) to continue only if you have already
recompiled your product parameter files with VMFP PF.
```

0

Enter a 0 and complete the following steps before you continue.

```
VMFB LD2188I Building 5697J08B $PPF
on 191 (A) from level $PFnnnnn
```

vmfppf 5697J08B *

Note: If you have created your own PPF override then use your PPF name instead of 5697J08B.

**copy 5697J08B \$PPF a = = d (olddate replace
erase 5697J08B \$PPF a**

Note: Do not use your own PPF name in place of 5697J08B for the COPYFILE and ERASE commands.

vmfbld ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (status

1

Re-issue VMFB LD to complete updating the build status table. If you have your own PPF name then you should use it on the VMFB LD command.

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories. When you receive the prompt that was previously displayed, enter a 1 to continue.

2 Use VMFVIEW to review the build status messages, and see what objects need to be built.

vmfview build

C.1.1.5 Build Serviced Objects

- 1** Rebuild Tape Manager serviced parts.

vmfbld ppf 5697J08B {TAPEMGR | TAPEMGRSFS} (serviced

Use **TAPEMGR** for installing on minidisks or **TAPEMGRSFS** for installing in Shared File System directories.

Note: If your software inventory disk (51D) is not owned by the MAINT user ID then make sure the VMSESE PROFILE reflects the correct owning user ID.

- 2** Review the build message log (\$VMFBLD \$MSGLOG). If necessary, correct any problems before going on. For information about handling specific error messages, see the appropriate *z/VM: System Messages and Codes*, or use on-line HELP.

vmfview build

- 3** Continue with 7.3, “Place the New Tape Manager Service Into Production” on page 31 to copy the new serviced files into production.

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very satisfied					very dissatisfied	not applicable
1	2	3	4	5	N	

	Satisfaction					
	1	2	3	4	5	N
Ease of product installation						
Time required to install the product						
Contents of program directory						
Readability and organization of program directory tasks						
Necessity of all installation tasks						
Accuracy of the definition of the installation tasks						
Technical level of the installation tasks						
Installation verification procedure						
Ease of customizing the product						
Ease of migrating the product from a previous release						
Ease of putting the system into production after installation						
Ease of installing service						

- Did you order this product as an independent product or as part of a package?

- Independent
- Package

What type of package was ordered?

- System Delivery Offering (SDO)
- Other - Please specify type: _____

- Is this the first time your organization has installed this product?
 - Yes
 - No
- Were the people who did the installation experienced with the installation of VM products using VMSES/E?
 - Yes
 - How many years of experience do they have? _____
 - No
- How long did it take to install this product? _____
- If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

Please provide the following contact information:

Name and Job Title

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Thank you for your participation.

Please send the completed form to the following address, or give to your IBM representative who will forward it to the Tape Manager for z/VM Development group:

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